

Uniformed Services University of the Health Sciences



“Learning to Care for Those in Harm’s Way”

Board of Regents Quarterly Meeting

November 2, 2020

**BOARD OF REGENTS
UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES
212th MEETING**

**November 2, 2020 | 8:00 a.m.
Hosted virtually (online) | Bethesda, MD**

MEETING AGENDA

OPEN MEETING

8:00 a.m.:	Meeting Call to Order Designated Federal Officer	Annette Askins-Roberts
8:00 - 8:05 a.m.:	Opening Comments Chair, Board of Regents, Uniformed Services University of the Health Sciences (USU)	Dr. Jonathan Woodson
8:05 - 8:10 a.m.:	Matters of General Consent Declaration of Board Actions	Dr. Woodson
8:10 - 8:20 a.m.:	Board Actions Degree Conferrals, Hébert School of Medicine (SOM) Interim Dean Degree Conferrals, Inouye Graduate School of Nursing (GSN) Dean Degree Conferrals, Postgraduate Dental College (PDC) Executive Dean Faculty Appointments and Promotions, SOM Interim Dean Staff Awards Department of Laboratory Animal Resources	Dr. Louis Pangaro Dr. Carol Romano Dr. Thomas Schneid Dr. Pangaro COL Carrie Benton
8:20 - 8:35 a.m.:	Office of the USU President Report President, USU	Dr. Richard Thomas
8:35 – 8:45 a.m.:	Office of the Assistant Secretary of Defense (Health Affairs) Report ASD (HA)	HON Thomas McCaffery
8:45 - 9:00 a.m.:	School of Medicine Report Interim Dean	Dr. Pangaro
9:00- 9:15 a.m.:	Graduate School of Nursing Report Dean	Dr. Romano
9:15 - 9:30 a.m.:	Postgraduate Dental College Report Executive Dean	Dr. Schneid
9:30 - 9:45 a.m.:	College of Allied Health Sciences Dean	Dr. Pelayo

9:45 – 10:00 a.m.:	Armed Forces Radiobiology Research Institute (AFRRI) Director	COL Mohammad Naeem
10:00 - 10:05 a.m.:	USU Brigade Report Brigade Commander	COL Patrick Donahue
10:05 - 10:10 a.m.:	Campus South Senior Vice President	Dr. Thomas Travis
10:10 - 10:15 a.m.:	Campus West Senior Vice President	Dr. William Roberts
10:15 - 10:20 a.m.:	Office of the University Registrar Assistant Vice President	Dr. Wendy Lishen
10:20 - 10:25 a.m.:	Office of the Inspector General USU IG	Dr. Rebecca Jaworski
10:25 - 10:30 a.m.:	Office of Accreditation and Organizational Assessment Assistant Vice President	Mr. Stephen Henske
10:30 - 10:35 a.m.:	Office of Information and Educational Technology Vice President	Mr. Timothy Rapp
10:35 – 10:50 a.m.:	Closing Comments Board Chair	Dr. Woodson

CLOSED MEETING

11:00 a.m. – 11:30 a.m.:

Active Investigations. *A report on active investigations at the University will be provided to the Board. The report will contain sensitive personnel information, may involve accusing a person of a crime or censuring an individual, and may disclose investigatory records.*

Personnel Actions. *A report on significant personnel actions will be provided to the Board and will contain sensitive personnel information and material that relates solely to the internal personnel rules and practices of the University.*

BOARD OF REGENTS
UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES
212th MEETING

November 2, 2020 | Bethesda, Maryland (virtual)

TABLE OF CONTENTS

Governing Documents

- [TAB 1](#) ... Charter
- [TAB 2](#) ... Membership Balance Plan
- [TAB 3](#) ... Bylaws
- [TAB 4](#) ... Current Membership

Administrative Documents

- [TAB 5](#) ... Board Meeting Calendar
- [TAB 6](#) ... Closed Session Determination
- [TAB 7](#) ... Federal Register Notice

Matters of General Consent

- [TAB 8](#) ... Chair's Opening Comments
- [TAB 9](#) ... Previous Meeting Minutes
- [TAB 10](#) ... Declaration of Board Actions

Board Actions

- [TAB 11](#) ... Degree Conferrals, F. Edward Hébert School of Medicine
- [TAB 12](#) ... Degree Conferrals, Daniel K. Inouye Graduate School of Nursing
- [TAB 13](#) ... Degree Conferrals, Postgraduate Dental College
- [TAB 14](#) ... Faculty Appointments and Promotions, Hébert School of Medicine
- [TAB 15](#) ... Staff Awards

Reports to the Board of Regents

- [TAB 16](#) ... University President
[Tab 30](#) PRS supplemental
- [TAB 17](#) ... Assistant Secretary of Defense (Health Affairs)
[Tab 31](#) ASD (HA) supplemental
- [TAB 18](#) ... Hébert School of Medicine (SOM)
[Tab 32](#) SOM supplemental
- [TAB 19](#) ... Inouye Graduate School of Nursing
[Tab 33](#) GSN supplemental
- [TAB 20](#) ... Postgraduate Dental College
[Tab 34](#) PDC supplemental
- [TAB 21](#) ... College of Allied Health Sciences
[Tab 35](#) CAHS supplemental
- [TAB 22](#) ... Armed Forces Radiobiology Research Institute
[Tab 36](#) AFRRRI supplemental

- [TAB 23](#) ... University Brigade
[Tab 37](#) *BDE supplemental*
- [TAB 24](#) ... Campus South
[Tab 38](#) *Campus South supplemental*
- [TAB 25](#) ... Campus West
[Tab 39](#) *Campus West supplemental*
- [TAB 26](#) ... Office of the University Registrar
[Tab 40](#) *Registrar supplemental*
- [TAB 27](#) ... Office of the University Inspector General
[Tab 41](#) *IG supplemental*
- [TAB 28](#) ... Office of Accreditation and Organizational Assessment
[Tab 42](#) *AOA supplemental*
- [TAB 29](#) ... Office of Information and Educational Technology
[Tab 43](#) *CIO supplemental*

TAB 1
Charter

Charter
Board of Regents, Uniformed Services University of the Health Sciences

1. Committee's Official Designation: The Committee will be known as the Board of Regents, Uniformed Services University of the Health Sciences ("the Board").
2. Authority: The Secretary of Defense, pursuant to 10 U.S.C. § 2113a and in accordance with the Federal Advisory Committee Act (FACA) (5 U.S.C., Appendix) and 41 C.F.R. § 102-3.50(a), established this non-discretionary Board.
3. Objectives and Scope of Activities: The Board shall assist the Secretary of Defense in an advisory capacity in carrying out the Secretary's responsibility to conduct the business of the Uniformed Services University of the Health Sciences ("the University").
4. Description of Duties: The Board shall provide advice and recommendations on academic and administrative matters critical to the full accreditation and successful operation of the University.
5. Agency or Official to Whom the Committee Reports: The Board reports to the Secretary of Defense and the Deputy Secretary of Defense, through the Under Secretary of Defense for Personnel and Readiness (USD(P&R)), who may act upon the Board's advice and recommendations.
6. Support: The Department of Defense (DoD), through the Office of the USD(P&R), provides the necessary support for the Board and ensures compliance with the requirements of the FACA, the Government in the Sunshine Act of 1976 (5 U.S.C. § 552b) ("the Sunshine Act"), governing Federal statutes and regulations, and established DoD policies and procedures.
7. Estimated Annual Operating Costs and Staff Years: The estimated annual operating cost, to include travel, meetings, and contract support, is approximately \$252,279.00. The estimated annual personnel cost to the DoD is 1.3 full-time equivalents.
8. Designated Federal Officer: The Board's Designated Federal Officer (DFO), pursuant to DoD policy, shall be a full-time or permanent part-time DoD officer or employee designated in accordance with DoD policies and procedures.

The Board's DFO is required to be in attendance at all Board and subcommittee meetings for the entire duration of each and every meeting. However, in the absence of the Board's DFO, a properly approved Alternate DFO, duly designated to the Board in accordance with DoD policies and procedures, shall attend the entire duration of all Board or subcommittee meetings.

The DFO, or the Alternate DFO, calls all Board meetings; prepares and approves all meeting agendas; and adjourns any meeting when the DFO, or the Alternate DFO, determines adjournment to be in the public interest or required by governing regulations or DoD policies and procedures.

9. Estimated Number and Frequency of Meetings: The Board meets at the call of the Board's DFO, in consultation with the Board's Chair. The Board shall meet at least once a quarter.
10. Duration: The need for this advisory function is on a continuing basis; however, this charter is subject to renewal every two years.

Charter
Board of Regents, Uniformed Services University of the Health Sciences

11. Termination: The Board terminates upon rescission of 10 U.S.C. § 2113a.
12. Membership and Designation: Pursuant to 10 U.S.C. § 2113a(b), the Board shall be composed of 15 members, appointed or designated as follows:
- a. nine persons outstanding in the fields of health care, higher education administration, or public policy, who shall be appointed from civilian life by the DoD Appointing Authorities;
 - b. the Secretary of Defense, or his or her designee, who shall be an *ex-officio* member;
 - c. the Surgeons General of the Uniformed Services, who shall be *ex-officio* members; and
 - d. the President of the University, who shall be a non-voting, *ex-officio* member.

As directed by 10 U.S.C. § 2113a(c), the term of office of each member of the Board (other than *ex-officio* members) shall be six years except that:

- a. any member appointed to fill a vacancy occurring before the expiration of the term for which his or her predecessor was appointed shall be appointed for the remainder of such term; and,
- b. any member whose term of office has expired shall continue to serve until his or her successor is appointed.

In accordance with 10 U.S.C. § 2113a(d), one of the members of the Board (other than an *ex-officio* member) shall be designated as Chair by the DoD Appointing Authorities and shall be the presiding officer of the Board.

Board members who are not *ex-officio* members shall be appointed by the DoD Appointing Authorities, and their appointments will be renewed on an annual basis according to DoD policies and procedures. No member, unless approved by the DoD Appointing Authorities, may serve more than two consecutive terms of service on the Board, to include its subcommittees, or serve on more than two DoD federal advisory committees at one time.

Members of the Board who are not full-time or permanent part-time Federal officers or employees will be appointed as experts or consultants, pursuant to 5 U.S.C. § 3109, to serve as special government employee (SGE) members. Board members who are full-time or permanent part-time Federal officers or employees will be appointed, pursuant to 41 C.F.R. § 102-3.130(a), to serve as regular government employee (RGE) members.

All members of the Board are appointed to provide advice on the basis of their best judgment without representing any particular point of view and in a manner that is free from conflict of interest.

Pursuant to 10 U.S.C. § 2113a(e), Board members (other than *ex-officio* members), while attending conferences or meetings or while otherwise performing their duties as members, shall be entitled to receive compensation at a rate to be fixed by the Secretary of Defense. Each member is reimbursed

Charter
Board of Regents, Uniformed Services University of the Health Sciences

for travel and per diem as it pertains to official business of the Board.

13. Subcommittees: The DoD, when necessary and consistent with the Board's mission and DoD policies and procedures, may establish subcommittees, task forces, or working groups to support the Board. Establishment of subcommittees will be based upon a written determination, to include terms of reference, by the DoD Appointing Authorities or the USD(P&R) as the Board's Sponsor. All subcommittees operate under the provisions of the FACA, the Sunshine Act, governing Federal statutes and regulations, and DoD policies and procedures.

Such subcommittees shall not work independently of the Board and shall report all their recommendations and advice solely to the Board for its thorough discussion and deliberation at a properly noticed and open meeting, subject to the Government in the Sunshine Act. Subcommittees, task forces, or working groups have no authority to make decisions and recommendations, verbally or in writing, on behalf of the Board. Neither the subcommittee nor any of its members may provide updates or reports directly to the DoD or any Federal officer or employee. If a majority of Board members are appointed to a particular subcommittee, then that subcommittee may be required to operate pursuant to the same notice and openness requirements of the FACA which govern the Board's operations.

The appointment of individuals to serve on Board subcommittees shall be approved by the DoD Appointing Authorities for a term of service of one-to-four years, with annual renewals, in accordance with DoD policy and procedures. No member shall serve more than two consecutive terms of service on the subcommittee without prior approval from the DoD Appointing Authorities. Subcommittee members, if not full-time or permanent part-time Federal officers or employees, shall be appointed as an expert or consultant pursuant to 5 U.S.C. § 3109 to serve as an SGE member. Subcommittee members who are full-time or permanent part-time Federal officers or employees shall be appointed pursuant to 41 C.F.R. § 102-3.130(a) to serve as an RGE member.

Each subcommittee member is appointment to provide advice on the basis of his or her best judgment without representing any particular point of view and in a manner that is free from conflict of interest.

All subcommittees operate under the provisions of FACA, the Sunshine Act, governing Federal statutes and regulations, and established DoD policies and procedures.

Individuals who are appointed as subcommittee leaders in accordance with DoD policy shall serve a one-to-two year term of service, with annual renewal, provided the leadership term of service does not exceed the member's approved subcommittee appointment.

14. Recordkeeping: The records of the Board and its subcommittees shall be managed in according with General Record Schedule 6.2, Federal Advisory Committee Records, or other approved agency records disposition schedule, and the appropriate DoD policies and procedures. These records will be available for public inspection and copying, subject to the Freedom of Information Act of 1966 (5 U.S.C. § 552, as amended).

15. Filing Date: May 2, 2019

TAB 2

Membership Balance Plan

Membership Balance Plan
Board of Regents, Uniformed Services University of the Health Sciences

Agency: Department of Defense (DoD)

1. Authority: The Secretary of Defense, pursuant to 10 U.S.C. § 2113a and in accordance with the Federal Advisory Committee Act (FACA) (5 U.S.C., Appendix) and 41 C.F.R. § 102-3.50(a), established the non-discretionary Board of Regents, Uniformed Services University of the Health Sciences (“the Board”).
2. Mission/Function: The Board shall assist the Secretary of Defense in an advisory capacity in carrying out the Secretary’s responsibility to conduct the business of the Uniformed Services University of the Health Sciences (“the University”). The Board shall provide advice and recommendations on academic and administrative matters critical to the full accreditation and successful operation of the University.
3. Points of View: Pursuant to 10 U.S.C. § 2113a(b), the Board shall be composed of 15 members, appointed or designated as follows:
 - a. nine persons outstanding in the fields of health care, higher education administration, or public policy, who shall be appointed from civilian life by the DoD Appointing Authorities;
 - b. the Secretary of Defense, or his or her designee, who shall be an *ex-officio* member;
 - c. the Surgeons General of the Uniformed Services, who shall be *ex-officio* members; and
 - d. the President of the University, who shall be a non-voting, *ex-officio* member.

Board members who are not *ex-officio* members shall be appointed by the DoD Appointing Authorities and their appointments will be renewed on an annual basis according to DoD policies and procedures. No member, unless approved by the DoD Appointing Authorities, may serve more than two consecutive terms of serve on the Board, to include its subcommittees, or serve on more than two DoD federal advisory committees at one time.

Members of the Board who are not full-time or permanent part-time Federal officers or employees will be appointed as experts or consultants, pursuant to 5 U.S.C. § 3109, to serve as special government employee (SGE) members. Board members who are full-time or permanent part-time Federal officers or employees will be appointed, pursuant to 41 C.F.R. § 102-3.130(a), to serve as regular government employee (RGE) members.

All members of the Board are appointed to provide advice on the basis of their best judgment without representing any particular point of view and in a manner that is free from conflict of interest.

The DoD has found that viewing the complex issues facing the Department through a multidisciplinary advisory committee provides the Department and, more importantly, the American public with a broader understanding of the issues on which to base subsequent policy decisions.

4. Other Balance Factors: NA

Membership Balance Plan
Board of Regents, Uniformed Services University of the Health Sciences

5. Candidate Identification Process: The DoD, in selecting potential candidates for the Board, reviews the educational and professional credentials of individuals with extensive professional experience in the areas of health care, higher education administration, or public policy.

The Designated Federal Officer (DFO), in consultation with the Office of the Assistant Secretary of Defense for Health Affairs (ASD(HA)), and their professional staffs, as well as through recommendations by current members of the Board. The DFO, consulting with the ASD(HA), reviews the credentials of each individual and narrows the list of potential candidates. During the review, he or she strives to achieve a balance between the educational and professional credentials of the individuals and the subject matter likely to be reviewed by the Board. The ASD(HA), based on the approval of the Secretary of Defense, is the Secretary of Defense representative to the Board.

After the list of candidates has been narrowed, it is forwarded to the USD(P&R) for further scrutiny and formal nomination to the Secretary of Defense, the Deputy Secretary of Defense, and/or the Committee Management Officer for the Department of Defense (CMO) (“DoD Appointing Authorities”). Once the USD(P&R) has narrowed the list of candidates and before formal nomination to the Appointing Authorities, the list will undergo a review by the DoD Office of the General Counsel and the Advisory Committee Management Officer (ACMO) to ensure compliance with the Board’s statute, charter, and membership balance plan. Following this review, the ACMO forwards the list of potential nominees for approval by the DoD Appointing Authorities.

The DoD Appointing Authorities shall approve the appointment of members to the Board (other than *ex-officio* members) for a six-year term of service, except those Board members appointed to fill a vacancy occurring before the expiration of the term for which the predecessor was appointed shall be appointed for the remainder of such term. Any Board member whose term of office has expired shall continue to serve until the successor is appointed. No member may serve more than two consecutive terms of service without approval from the DoD Appointing Authorities.

Following approval by the DoD Appointment Authorities, the candidates are required to complete the necessary appointment paperwork, to include meeting ethics requirements stipulated by the Office of Government Ethics for advisory committee members. All appointment paperwork must be submitted to the appropriate DoD offices and processed at the earliest opportunity in accordance with DoD policy and procedures. If the required paperwork is not processed in accordance with DoD policy and procedures, the member will not be able to participate in any Board-related work or deliberation until all of his or her appointment processing actions are completed.

Membership vacancies for the Board and any subcommittees will be filled in the same manner as described in this section.

6. Subcommittee Balance: The DoD, when necessary and consistent with the Board’s mission and DoD policies and procedures, may establish subcommittees, task forces, or working groups to support the Board.

Individuals considered for appointment to any subcommittee of the Board may come from the Board itself or from new nominees, as recommended by the USD(P&R) and based upon the subject matters

Membership Balance Plan
Board of Regents, Uniformed Services University of the Health Sciences

under consideration. Pursuant to DoD policy and procedures, the USD(P&R) shall follow the same procedures used for selecting and nominating individuals for appointment consideration by the DoD Appointing Authorities.

Subcommittee members will be appointed for a term of service of one-to-four years, subject to annual renewals; however, no member will serve more than two consecutive terms of service on the subcommittee unless previously authorized by the DoD Appointing Authorities. Subcommittee members, if not full-time or permanent part-time Federal officers or employees, shall be appointed as experts or consultants pursuant to 5 U.S.C. § 3109 to serve as SGE members. Subcommittee members, if not full-time or permanent part-time Federal officers or employees shall serve as RGE members pursuant to 41 C.F.R. § 102-3.130(a).

7. Other: As nominees are considered for appointment to the Board, the DoD adheres to the Office of Management and Budget's Revised Guidance on Appointment of Lobbyists to Federal Committees, Boards, and Commissions (79 FR 47482; August 13, 2014) and the rules and regulations issued by the Office of Government Ethics.
8. Date Prepared/Updated: May 2, 2019

TAB 3

Bylaws

Bylaws
of the
Board of Regents
of the
Uniformed Services University of the Health Sciences

Article I

Establishment. The Board of Regents (Board) of the Uniformed Services University of the Health Sciences (USU), is established by 10 U.S. Code§ 2113a.

Description. The Board is a Federal Advisory Committee within the Department of Defense (DoD) and operates in accordance with the Federal Advisory Committee Act (FACA), DoD Instruction 5105.04, "Federal Advisory Committee Management Program," DoD Directives and Instructions specifically and generally applicable to USU, and its DoD Charter.

Article II

Purpose.

A. The purpose of the Board shall be to provide advice and guidance to the Secretary of Defense; the Under Secretary of Defense for Personnel and Readiness; the Assistant Secretary of Defense for Health Affairs; and the USU President in order to ensure that the operation of USU is effective, in compliance with all applicable accreditation standards, and in the best traditions of academia.

B. The purpose of these bylaws is to set forth the organization of the Board and to outline the procedures it uses to accomplish its responsibilities as an advisory committee.

Article III

Members. Pursuant to 10 U.S. Code § 2113a, the Board shall consist of:

A. Nine persons, outstanding in the fields of health care, higher education administration, or public policy, who shall be appointed from civilian life by the Secretary of Defense;

B. The Secretary of Defense, or the Secretary's designee, who shall be an ex officio member;

C. The Surgeons General of the Uniformed Services who shall be ex officio members; and

D. The USU President, who shall be a nonvoting ex officio member.

E. Ex officio members of the Board, to include the designee of the Secretary of Defense, may be represented at meetings of the Board and at committee meetings by representatives, provided these representatives are Federal government employees or members of the Uniformed Services and provided they are appointed in advance. Representatives should be appointed with continuity in mind and should have authority to speak for the represented members.

Term of Office. The term of office for each member of the Board (other than an ex officio members) shall be six years except that:

A. Any member of the Board appointed to fill a vacancy occurring before the expiration of the term for which a predecessor was appointed shall be appointed for the remainder of such term.

B. Any member of the Board whose term of office has expired shall continue to serve until a successor is appointed.

Appointment of Chair. One of the members of the Board (other than an ex officio member) shall be designated by the Secretary of Defense as Chair and shall be the presiding officer of the Board. The term of the Chair shall continue until a successor is appointed.

Selection of Vice-Chair. The Chair of the Board may select an appointed member of the Board to serve as Vice Chair.

Termination of Membership.

A. A member may voluntarily resign from Board membership for any reason

B. The Chair may recommend termination of Board membership prior to the expiration of a member's term for any member for cause based upon misconduct or other circumstances that would reflect unfavorably on the Board of Regents, or after a determination has been made that the member has committed a violation of the Ethics in Government Act.

C. A member may be removed for other reasons that the Secretary of Defense deems appropriate.

Article IV

Duties and Responsibilities. The Board shall:

A. Advise the Secretary of Defense, through the Assistant Secretary of Defense for Health Affairs and the Under Secretary of Defense for Personnel and Readiness, regarding the appointment of the USU President and advise the USU President regarding the appointments of deans of USU schools/colleges, directors of USU institutes and similar USU administrative positions;

- B. Be informed by the USU President of the appointments of vice presidents, assistant vice presidents and similar USU staff positions; or by the appropriate dean of the appointments of associate deans, assistant deans, department chairs and similar USU faculty positions;
- C. Advise the USU President on the awarding of appropriate academic degrees to successful candidates after first receiving and considering the recommendations of the faculty and deans of USU schools/colleges;
- D. Advise the USU President on the conferring of honors (to include Professor Emeritus, Senior Lecturer, and Distinguished Professor) and honorary degrees after first receiving and considering the recommendations of the deans of USU schools/colleges;
- E. Advise on policies and procedures intended to ensure that USU maintains appropriate accreditation requirements;
- F. Advise on recommendations made by USU Committees on Appointments, Promotion, and Tenure to the USU President;
- G. Advise on recommendations made to establish new academic programs at USU; and
- H. Perform other duties as deemed appropriate and within its Charter, to include:
 - (1) Advise the Assistant Secretary of Defense for Health Affairs, the Under Secretary of Defense for Personnel and Readiness, and the Secretary of Defense on the performance of the USU President; the performance of USU as an institution (including major academic programs and divisions); the well-being of USU faculty, students, and staff; the adequacy of USU financial resources and their management; the adequacy of USU's physical facilities; and
 - (2) Serve as an advocate for USU and its needs.

Article V

Advisors. Advisors to the Board shall include:

- A. USU senior vice presidents, deans, and institute directors;
- B. Commanders of representative teaching hospitals, as selected by the Board;
- C. Director, Defense Health Agency;
- D. Joint Staff Surgeon;

- E. Medical Officer of the Marine Corps;
- C. A legal advisor (the USU General Counsel);
- D. A military advisor to provide advice to the Board from an operational perspective; and
- E. Other individuals invited by the Board to serve in this capacity.

Article VI

Preparatory Groups.

- A. Designation: The Board of Regents, as a body, shall designate preparatory groups as necessary.
- B. Purpose: Board preparatory groups shall be responsible for administrative review and summary of assigned meeting materials which will then be presented at the full Board meeting.
- C. Membership: The Chair of the Board of Regents shall appoint members and designate their chairs.
- D. Meetings: Each group shall meet prior to the meeting of the full Board. Meetings may be held in person or via conference call.

Subcommittees. In contrast to preparatory groups, subcommittees, which make recommendations to the Board, may be established in accordance with the guidelines of the Board of Regents DoD Charter and DoDI 5105.04, "Department of Defense Federal Advisory Committee Management Program."

Article VII

Awards. All awards are approved or disapproved by the University President after nomination and endorsements.

- A. Board of Regents Awards: The Board may annually recommend outstanding students if nominated by the Dean, School of Medicine; the Dean, Graduate School of Nursing; the Associate Dean, Graduate Education, School of Medicine; the Executive Dean, Postgraduate Dental College; and the Dean, College of Allied Health Sciences, in accordance with separately established criteria.

B. Carol J. Johns, M.D. Medal: The Board shall review and endorse, or not, the annual nominee for the Carol J. Johns, M.D. Medal recognizing an outstanding faculty member selected by the Faculty Senate in accordance with separately established criteria.

C. The Distinguished Service Award, Exceptional Service Award, and the University Medal: The Board shall review and endorse, or not, Distinguished Service and Exceptional Service awards and the University Medal in accordance with separately established criteria.

Article VIII

Emeritus. This establishes the honorific title of Emeritus Member of the Board of Regents of the USU. This title signifies a previous member of the Board who served USU honorably, with consistent, active participation over many years as a Regent. Nominations for the recognition may be submitted only by a currently-serving member of the Board and endorsement will be attained by a majority vote of the current, voting-eligible Regents. The USU president must then approve the endorsement by the Board of Regents. The title "Emeritus," once awarded, will be recognized for life and may be used by the member to designate distinguished service on the Board. The title will convey no special privileges.

Since it is an honorary title, the emeritus member will not have voting privileges nor receive remuneration of any kind, and may continue to serve USU in accordance with 10 U.S.C. § 2113(g)(1)(F).

Article IX

General Procedures.

A. **Regular Meetings:** The Board shall hold at least four (4) meetings in an annual period from October 1 to September 30, or more often if the Secretary of Defense, the designee of the Secretary of Defense, or the Chair of the Board shall deem it necessary. Unless otherwise determined by the Board, meetings shall be held in the Everett Alvarez Jr. Board of Regents Conference Room (D3001) at the University, 4301 Jones Bridge Road, Bethesda, MD 20814.

B. **Additional Meetings:** Additional meetings shall be called by the Designated Federal Officer of the Board upon the direction of the Chair of the Board, the USU President, or upon written request of three or more members of the Board. Additional meetings of the Board shall be held at such times and places as shall be specified in the notice of the meeting.

C. **Notice of Meetings:**

1. Notice of all meetings of the Board shall be sent by the Designated Federal Officer to each member of the Board by mail, fax, electronic mail or telephone.

2. The Designated Federal Officer shall mail a notice not less than fifteen (15) days before any regular meeting. Faxing, emailing, or telephoning a notice shall be done not less than seven (7) days before a regular meeting.

3. The recital by the Board Executive Secretary in the minutes that notice was given shall be sufficient evidence of the fact.

4. Public announcement of the meetings of the Board shall appear in the Federal Register as provided in the Government in the Sunshine Act. (5 U.S.C. 552b(e)(3))

D. Closure of Meetings: Meetings of the Board shall be open to the public unless a written determination is made to close all or part of a meeting in coordination with General Counsel. The determination shall cite those provisions of 5 U.S.C. 552b(c) that justify closure and a summary of meeting activities shall be prepared and maintained as part of nonpublic Board of Regents files.

E. Quorum: The presence of a majority of all voting members of the Board will constitute a quorum of the Board. When there are no vacancies on the Board, a quorum means at least eight (8) of the fourteen (14) voting members must be present in person or via electronic means. An ex officio member's duly designated representative counts for purposes of a quorum.

F. Voting:

1. During a meeting, if a quorum is called for by a member and found not to be present, no further business may be transacted.

2. During a meeting, issues will be determined by voice balloting, unless an individual member of the Board requests a written ballot.

3. The Chair, Board of Regents, is a member of the voting assembly and has the same right to vote as any other member.

4. Unless otherwise specified, a simple majority vote will determine matters of issue before the Board. In the event of a tie vote, the proposed resolution is lost.

5. At the direction of the Chair, Board of Regents, action may also be taken by a majority of the members by notation voting (that is to say by voting on material circulated to the members individually or serially, or by polling members individually or collectively by mail, telephone, fax, e-mail or a similar procedure). Such action will be reported by the Executive Secretary at the next meeting of the Board.

6. The Secretary of Defense, or the Secretary's designee, or a duly appointed representative of the Secretary's designee is authorized to vote.

7. The Surgeons General of the Uniformed Services, or their duly appointed representatives, are authorized to vote.

8. The USU President is precluded by statute from voting.

9. Except for the USU President, individual ex officio members of the Board, to include the designee of the Secretary of Defense, may give proxies to their representatives or to other members of the Board of Regents (allowing them to be counted for quorum purposes and to vote) provided this is done in advance.

G. Order of Business: The order of business will be at the discretion of the Chair, Board of Regents, unless otherwise specified by the Board.

H. Rules of Order: The rules contained in the current edition of *Robert's Rules of Order Newly Revised* shall govern the Board in all cases in which they are applicable and in which they are not inconsistent with applicable statutes and directives, these bylaws, and any special rules the Board may adopt.

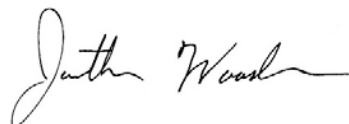
Article X

Amendment and Effective Date.

A. Amendment: These bylaws may be amended at any meeting of the Board as long as each proposed amendment has been provided to the members at least 60 days before the next scheduled meeting. Amendments will take effect by the affirmative vote of two-thirds (2/3) of the members present.

B. Review: These bylaws shall be reviewed at least every two (2) years.

C. Effective Date: These bylaws are effective August 4, 2020, and supersede previously published bylaws dated August 1, 2017.

A handwritten signature in black ink, appearing to read "Jonathan Woodson". The signature is fluid and cursive, with a long horizontal stroke at the end.

Jonathan Woodson, MD
Chair, Board of Regents

TAB 4

Current Membership

BOARD OF REGENTS

UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

CURRENT MEMBERSHIP

<u>NAME</u>	<u>TITLE</u>	<u>TERM EXP</u>
Ronald R. Blanck, D.O.	Member, Board of Regents	June 20, 2019 ^c
Honorable Sheila P. Burke, R.N., M.P.A.	Member, Board of Regents	July 19, 2023 ^c
GEN Richard Cody, USA (Ret)	Member, Board of Regents	November 4, 2025
Michael M.E. Johns, M.D.	Member, Board of Regents	June 20, 2019 ^c
Kenneth P. Moritsugu, M.D., M.P.H.	Member, Board of Regents	June 20, 2019 ^c
Leo E. Rouse, D.D.S.	Member, Board of Regents	May 13, 2021 ^b
Honorable Gail R. Wilensky, Ph.D.	Member, Board of Regents	June 20, 2019 ^a
Honorable Jonathan Woodson, M.D.	Chair, Board of Regents	June 20, 2025 ^b
Thomas P. McCaffery, M.P.P.	Secretary of Defense Designee and Assistant Secretary of Defense for Health Affairs*	Ex officio
Richard W. Thomas, M.D., D.D.S.	President, USU**	Ex officio
LTG Raymond S. Dingle, MS, USA	Surgeon General, United States Army	Ex officio
RADM Bruce Gillingham, MC, USN	Surgeon General, United States Navy	Ex officio
Lt Gen Dorothy A. Hogg, USAF, NC	Surgeon General, United States Air Force	Ex officio
VADM Jerome M. Adams, USPHS	Surgeon General of the United States	Ex officio
Gen Thomas R. Morgan, USMC (Ret)	Military Advisor to the Board	Advisor
LTG Ronald J. Place, MC, USA	Director, Defense Health Agency	Advisor
Brig Gen Paul Friedrichs, USAF, MC	Joint Staff Surgeon	Advisor
RDML James L. Hancock, MC, USN	Medical Officer of the Marine Corps	Advisor
RDML Anne M. Swap, MSC, USN	Director, National Capital Region Medical Directorate	Advisor
COL Andrew Barr, MC, USA	Director, Walter Reed National Military Medical Center	Advisor
Thomas W. Travis, M.D., M.P.H.	Senior Vice President, Southern Region	Advisor
William M. Roberts, M.D., M.B.A.	Senior Vice President, Western Region	Advisor
Louis Pangaro, M.D., M.A.C.P.	Dean, F. Edward Hébert School of Medicine	Advisor
Carol A. Romano, Ph.D., R.N.	Dean, Daniel K. Inouye Graduate School of Nursing	Advisor
Thomas R. Schneid, D.M.D., M.S.	Executive Dean, Postgraduate Dental College	Advisor
Lula W. Pelayo, Ph.D., M.S.N., R.N.	Dean, College of Allied Health Sciences	Advisor
COL Mohammad Naeem, MC, USA	Director, Armed Forces Radiobiology Research Institute	Advisor
Mark E. Peterson, J.D.	Legal Advisor to the Board of Regents	Advisor
Jeffrey L. Longacre, M.D.	Executive Secretary	
Annette Askins-Roberts	Designated Federal Officer	

^a – currently serving predecessor's term; ^b – currently serving first term; ^c – currently serving second term

*The Secretary of Defense designee is by statute an ex officio member.

**The USU President is by statute a non-voting ex officio member.

TAB 5

Board Meeting Calendar

**Board of Regents
Uniformed Services University of the Health Sciences**

Board Meeting Calendar (2020-2021)

*Note: all meetings will occur at USU Bethesda Campus unless stated otherwise

Preparatory Session	Meeting of Record
	Monday, August 3, 2020
	Monday, November 2, 2020
	Monday, February 1, 2021
	Friday, May 14, 2021
	Monday, August 2, 2021
	Monday, November 1, 2021

****Saturday, May 15, 2021 – Class of 2021 Commencement****

Faculty Packet Due Dates (2020)

*Note: packets not received by due date will not be presented at Board meeting

Meeting of Record	Faculty Packets Due to CHR
August 3, 2020	June 23, 2020
November 2, 2020	September 22, 2020
February 1, 2021	December 21, 2020
May 14, 2021	April 2, 2021
August 2, 2021	June 22, 2021
November 1, 2021	September 21, 2021

TAB 6

Closed Session Determination



PERSONNEL AND
READINESS

UNDER SECRETARY OF DEFENSE
4000 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-4000

OCT - 6 2020

**MEMORANDUM FOR DESIGNATED FEDERAL OFFICER, BOARD OF REGENTS,
UNIFORMED SERVICES UNIVERSITY OF THE HEALTH
SCIENCES**

**SUBJECT: Determination to Close a Portion of the Board of Regents, Uniformed Services
University of the Health Sciences Meeting on November 2, 2020**

I find that the request to close a portion of the meeting of the Board of Regents (Board), Uniformed Services University of the Health Sciences (University), from roughly 11:00 a.m. until 11:30 a.m. on November 2, 2020, is consistent with provisions outlined in the Government in the Sunshine Act, 5 U.S.C. § 552b(c)(2, 5-7), and the Federal Advisory Committee Act, 5 U.S.C. Appendix. Therefore, I determine that the prescribed portion of the Board meeting shall be closed to the public.

The reason for my determination is that this portion of the meeting will disclose sensitive personnel information, will include matters that relate solely to the internal personnel rules and practices of the University, will involve accusing a person of a crime or censuring an individual, and may disclose investigatory records compiled for law enforcement purposes.

Specifically, the portions of the meeting that will be closed are the discussions on active investigations and personnel actions.

As required by 41 CFR § 102-3.155(d), you shall ensure that a copy of this determination is made available to the public upon request. In light of this determination, you shall also comply with all requirements for reporting closed meetings as specified in Department of Defense Instruction 5105.04.

A handwritten signature in black ink, reading "Matthew P. Donovan", is located below the text.

Matthew P. Donovan

TAB 7

Federal Register Notice



PERSONNEL AND
READINESS

OFFICE OF THE UNDER SECRETARY OF DEFENSE
4000 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-4000

MEMORANDUM FOR DIRECTOR OF OVERSIGHT AND COMPLIANCE, OFFICE OF
THE CHIEF MANAGEMENT OFFICER OF THE DEPARTMENT
OF DEFENSE
(ATTN: OSD FEDERAL REGISTER LIAISON OFFICER)

SUBJECT: Federal Register Notice - Board of Regents, Uniformed Services University of the
Health Sciences, November 2, 2020.

Request the attached Federal Register Notice announcing the Board of Regents,
Uniformed Services University of the Health Sciences (USU) meeting scheduled to occur on
Monday, November 2, 2020, be published in the Federal Register at the earliest possible date,
but no later than October 18, 2020. If you should have any questions, please contact my Group
Federal Officer, Mr. Justin Kinnaman, at (703) 571-0104 or justin.w.kinnaman.civ@mail.mil; or
the Designated Federal Officer for the Board of Regents, USU, Ms. Annette Askins-Roberts, at
(301) 295-3066 or annette.askins-roberts@usuhs.edu.

BLANKS JULIE A.1024110989
Digitally signed by
BLANKS JULIE A.102
4110989
Date: 2020.10.08
17:45:12 -04'00'

Julie Blanks
Executive Director

Attachment:
As stated

Product(s)

NSN(s)—*Product Name(s)*: 7930–01–671–7469—Dish Soap, Manual, EPA Certified

Designated Source of Supply: Asso. for the Blind and Visually Impaired—Goodwill Industries of Greater Rochester, Inc., Rochester, NY

Mandatory For: Total Government Requirement

Contracting Activity: FEDERAL ACQUISITION SERVICE, GSA/FSS GREATER SOUTHWEST ACQUISITI

Service(s)

Service Type: Custodial Service

Mandatory for: US Air Force, JBSA Lackland, Lackland Training Annex, Kelly Annex, San Antonio, TX

Designated Source of Supply: HHI Services Inc., San Antonio, TX

Contracting Activity: DEPT OF THE AIR FORCE, FA3016 502 CONS CL JBSA

Michael R. Jurkowski,

Deputy Director, Business & PL Operations.

[FR Doc. 2020–22922 Filed 10–15–20; 8:45 am]

BILLING CODE 6353–01–P

DEPARTMENT OF DEFENSE**Office of the Secretary**

Defense Advisory Committee on Investigation, Prosecution, and Defense of Sexual Assault in the Armed Forces; Notice of Federal Advisory Committee Meeting

AGENCY: General Counsel of the Department of Defense, Department of Defense (DoD).

ACTION: Notice of Federal Advisory Committee meeting.

SUMMARY: The DoD is publishing this notice to announce that the following Federal Advisory Committee meeting of the Defense Advisory Committee on Investigation, Prosecution, and Defense of Sexual Assault in the Armed Forces will take place.

DATES: Open to the public, Friday, November 6, 2020, from 11:00 a.m. to 3:45 p.m. EDT.

ADDRESSES: This public meeting will be held via teleconference. To access the teleconference dial: 410–874–6300, Conference Pin: 611 989 635.

FOR FURTHER INFORMATION CONTACT:

Dwight Sullivan, 703–695–1055 (Voice), [dwight.h.sullivan.civ@mail.mil](mailto:dwright.h.sullivan.civ@mail.mil) (Email). Mailing address is DAC–IPAD, One Liberty Center, 875 N Randolph Street, Suite 150, Arlington, Virginia 22203.

Website: <http://dacipad.whs.mil/>. The most up-to-date changes to the meeting agenda can be found on the website.

SUPPLEMENTARY INFORMATION: This meeting is being held under the provisions of the Federal Advisory Committee Act (FACA) of 1972 (5 U.S.C., Appendix, as amended), the Government in the Sunshine Act of 1976 (5 U.S.C. 552b, as amended), and 41 CFR 102–3.140 and 102–3.150.

Purpose of the Meeting: In section 546 of the National Defense Authorization Act for Fiscal Year 2015 (Pub. L. 113–291), as modified by section 537 of the National Defense Authorization Act for Fiscal Year 2016 (Pub. L. 114–92), Congress tasked the DAC–IPAD to advise the Secretary of Defense on the investigation, prosecution, and defense of allegations of rape, forcible sodomy, sexual assault, and other sexual misconduct involving members of the Armed Forces. This will be the twentieth public meeting held by the DAC–IPAD. At this meeting the Committee will deliberate and vote on the draft DAC–IPAD review and assessment of racial and ethnic disparities in the investigation, prosecution, and conviction of Service members for sexual offenses involving adult victims within the military justice system as required by section 540I of the National Defense Authorization Act for Fiscal Year 2020. The Committee will be briefed on the developing field of restorative justice and hear from a civilian expert on this topic followed by a staff briefing and discussion on victim impact statements at sentencing as requested by Congress in the FY20 NDAA. The Committee will receive briefing and update from the Policy Subcommittee on its interviews with civilian prosecutors and defense counsel.

Agenda: 11:00 a.m.–11:10 a.m. Public Meeting Begins—Welcome and Introduction; 11:10 a.m.–12:30 p.m. DAC–IPAD Deliberations on Draft Racial and Ethnic Disparities Report; 12:30 p.m.–1:00 p.m. Lunch Break; 1:00 p.m.–2:00 p.m. Continuation of DAC–IPAD Deliberations on Draft Racial and Ethnic Disparities Report; 2:00 p.m.–3:00 p.m. Staff Presentation and Testimony from a Civilian Expert on Restorative Justice and Staff Presentation on Victim Impact Statements at Sentencing Followed by Committee Discussion on These Topics as Requested by Congress in the FY20 NDAA; 3:00 p.m.–3:30 p.m. Policy Subcommittee Briefing on Interviews with Civilian Prosecutors and Defense Counsel and Update on Subcommittee Timeline for Review of Military Pretrial Processes; 3:30 p.m.–3:45 p.m.

Discussion about DAC–IPAD Bylaws, Meeting Wrap-Up and Public Comment; 3:45 p.m. Public Meeting Adjourns.

Meeting Accessibility: Pursuant to 5 U.S.C. 552b and 41 CFR 102–3.140 through 102–3.165, this meeting is open to the public. This public meeting will be held via teleconference. To access the teleconference dial: 410–874–6300, Conference Pin: 611 989 635. Please consult the website for any changes to the public meeting date or time.

Written Statements: Pursuant to 41 CFR 102–3.140 and section 10(a)(3) of the Federal Advisory Committee Act of 1972, the public or interested organizations may submit written comments to the Committee about its mission and topics pertaining to this public session. Written comments must be received by the DAC–IPAD at least five (5) business days prior to the meeting date so that they may be made available to the Committee members for their consideration prior to the meeting. Written comments should be submitted via email to the DAC–IPAD at whs.pentagon.em.mbx.dacipad@mail.mil in the following formats: Adobe Acrobat or Microsoft Word. Please note that since the DAC–IPAD operates under the provisions of the Federal Advisory Committee Act, as amended, all written comments will be treated as public documents and will be made available for public inspection. Oral statements from the public will be permitted, though the number and length of such oral statements may be limited based on the time available and the number of such requests. Oral presentations by members of the public will be permitted from 3:30 p.m. to 3:45 p.m. EST on November 6, 2020.

Dated: October 9, 2020.

Aaron T. Siegel,

Alternate OSD Federal Register Liaison Officer, Department of Defense.

[FR Doc. 2020–22897 Filed 10–15–20; 8:45 am]

BILLING CODE 5001–06–P

DEPARTMENT OF DEFENSE**Office of the Secretary**

Board of Regents, Uniformed Services University of the Health Sciences; Notice of Federal Advisory Committee Meeting

AGENCY: Under Secretary of Defense for Personnel and Readiness (USD(P&R)), Board of Regents (Board), Uniformed Services University of the Health Sciences (USU), Department of Defense (DoD).

ACTION: Notice of Federal Advisory Committee Meeting.

SUMMARY: The DoD is publishing this notice to announce that the following Federal Advisory Committee meeting of the Board, USU will take place.

DATES: Monday, November 2, 2020, open to the public from 8:00 a.m. to 10:50 a.m. The closed session will follow from approximately 11:00 a.m. to 11:30 a.m.

ADDRESSES: Both the open and closed portions of the meeting will be held online. If you are interested in observing the open portion of the Board meeting online, please contact usu_external_affairs@usuhs.edu for connectivity information.

FOR FURTHER INFORMATION CONTACT: Annette Askins-Roberts, Designated Federal Officer (DFO), at (301) 295-3066 or annette.asksin-roberts@usuhs.edu. Mailing address is 4301 Jones Bridge Road, Bethesda, MD 20814. Website: <https://www.usuhs.edu/vpe/bor>.

SUPPLEMENTARY INFORMATION: This meeting is being held under the provisions of the Federal Advisory Committee Act (FACA) (5 U.S.C., Appendix), the Government in the Sunshine Act (5 U.S.C. 552b), and 41 CFR 102-3.140 and 102-3.150.

Purpose of the Meeting: The purpose of the meeting is to provide advice and recommendations to the Secretary of Defense, through the USD(P&R), on academic and administrative matters critical to the full accreditation and successful operation of USU. These actions are necessary for USU to pursue its mission, which is to educate, train and comprehensively prepare uniformed services health professionals, officers, scientists, and leaders to support the Military and Public Health Systems, the National Security and National Defense Strategies of the United States, and the readiness of our Uniformed Services.

Agenda: The schedule includes reviews of administrative matters of general consent (e.g., minutes approval, degree conferrals, faculty appointments and promotions, award recommendations, etc.) electronically voted on since the previous Board meeting on August 3, 2020. Recommendations for degree conferrals, faculty appointments and promotions, and faculty and student awards presented by the deans of USU's schools and colleges; a report by the USU President on recent actions affecting academic and operational aspects of USU; a report from the Assistant Secretary of Defense for Health Affairs about the Military Health System;

multiply reports covering academic summaries presented by various Deans (consisting of submissions from the School of Medicine, Graduate School of Nursing, Postgraduate Dental College, and College of Allied Health Sciences); a member report covering the Armed Forces Radiobiology Research Institute (AFRRI); presented by the Director of AFRRI; a report from the Brigade Commander; reports from the Senior Vice President Campus South, Senior Vice President Campus West, and Office of the Vice President for Research; a report from the Inspector General; a report from the Office of Accreditation and Organizational Assessment; a report from the Office of Information and Educational Technology. A closed session will be held following the open session to discuss active investigations and personnel actions.

Meeting Accessibility: Pursuant to Federal statutes and regulations (5 U.S.C., Appendix, 5 U.S.C. 552b, and 41 CFR 102-3.140 through 102-3.165), the meeting will be held online and is open to the public from 8:00 a.m. to 10:50 a.m. Members of the public wishing to observe the meeting should contact External Affairs via email at usu_external_affairs@usuhs.edu no later than 2 business days prior to the meeting. Pursuant to 5 U.S.C. 552b(c)(2, 5-7), the DoD has determined that the portion of the meeting from 11:00 a.m. to 11:30 a.m. shall be closed to the public. The USD(P&R), in consultation with the DoD Office of General Counsel, has determined in writing that this portion of the Board's meeting will be closed as the discussion will disclose sensitive personnel information, will include matters that relate solely to the internal personnel rules and practices of the agency, will involve allegations of a person having committed a crime or censuring an individual, and may disclose investigatory records compiled for law enforcement purposes.

Written Statements: Pursuant to section 10(a)(3) of the FACA and 41 CFR 102-3.140, the public or interested organizations may submit written comments to the Board about its approved agenda pertaining to this meeting or at any time regarding the Board's mission. Individuals submitting a written statement must submit their statement to the USU External Affairs email address at usu_external_affairs@usuhs.edu. Written statements that do not pertain to a scheduled meeting of the Board may be submitted at any time. If individual comments pertain to a specific topic being discussed at the planned meeting, then these statements must be received at least 5 calendar days prior to the meeting. Otherwise,

the comments may not be provided to or considered by the Board until a later date. The DFO will compile all timely submissions with the Board's Chair and ensure such submissions are provided to Board Members before the meeting.

Dated: October 13, 2020.

Morgan E. Park,

Alternate OSD Federal Register Liaison Officer, Department of Defense.

[FR Doc. 2020-22959 Filed 10-15-20; 8:45 am]

BILLING CODE 5001-06-P

DEPARTMENT OF ENERGY

[FE Docket No. 20-127-LNG]

Cheniere Marketing, LLC and Corpus Christi Liquefaction, LLC; Application for Blanket Authorization To Export Liquefied Natural Gas to Non-Free Trade Agreement Countries on a Short-Term Basis

AGENCY: Office of Fossil Energy, Department of Energy.

ACTION: Notice of application.

SUMMARY: The Office of Fossil Energy (FE) of the Department of Energy (DOE) gives notice (Notice) of receipt of an application (Application), filed on October 2, 2020, by Cheniere Marketing, LLC and Corpus Christi Liquefaction, LLC (collectively, Corpus Christi). Corpus Christi requests blanket authorization to export domestically produced liquefied natural gas (LNG) in a volume equivalent to 767 billion cubic feet (Bcf) of natural gas on a cumulative basis over a two-year period commencing on December 12, 2020. Corpus Christi seeks to export this LNG from the Corpus Christi Liquefaction Project located in Corpus Christi, Texas. Corpus Christi filed the Application under the Natural Gas Act (NGA). Protests, motions to intervene, notices of intervention, and written comments are invited.

DATES: Protests, motions to intervene, or notices of intervention, as applicable, requests for additional procedures, and written comments are to be filed using procedures detailed in the Public Comment Procedures section no later than 4:30 p.m., Eastern time, November 16, 2020.

ADDRESSES:

Electronic Filing by email: fergas@hq.doe.gov.

Regular Mail: U.S. Department of Energy (FE-34), Office of Regulation, Analysis, and Engagement, Office of Fossil Energy, P.O. Box 44375, Washington, DC 20026-4375.

Hand Delivery or Private Delivery Services (e.g., FedEx, UPS, etc.): U.S.

TAB 8

Chair's Opening Comments

Board Chair's Opening Comments

- Welcome Introductions and Appreciation
 - Incoming Vice President for Research, Dr. Mark Kortepeter
 - Outgoing Acting Vice President for Research, Dr. Toya Randolph
 - Interim Dean, Hebert School of Medicine, Dr. Louis Pangaro
- Board of Regents Bylaws updated and included in the materials
- Calendar 2021 Board meetings found at Tab 5
 - Next Board of Regents meeting – Monday, February 1, 2021
 - Virtual or In-person to be determined by current events
- Regent Terms
 - Three replacement submissions pending definitive action outside the university.
- Closed session following the open session

TAB 9

Previous Meeting Minutes

**Minutes of the Board of Regents
Uniformed Services University of the Health Sciences**

**Meeting No. 211
August 3, 2020**

The Board of Regents (Board), Uniformed Services University of the Health Sciences (USU), met virtually on August 3, 2020, using the Zoom online platform due to the COVID-19 Pandemic preventing an onsite meeting. Online access was provided to the Regents, enabling a two-way forum for discussion among the Board members. The meeting was simultaneously broadcasted via a YouTube link made available to the public for real-time observation. A link to the complete open session meeting video can be found at <https://www.youtube.com/watch?v=6z6bmKe4mg8>.

The meeting date and agenda items were published in the *Federal Register* and each Regent was duly notified prior to the meeting. The Board Executive Secretary, Jeffrey Longacre, M.D., and the Designated Federal Officer (DFO), Ms. Annette Askins-Roberts, were both present during the entire meeting. The meeting was called to order by the DFO at 8:07 a.m.

Members and advisors listed below were in attendance:

Board Members

Honorable Jonathan Woodson, M.D., Chair
Ronald R. Blanck, D.O., Member
Honorable Sheila P. Burke, M.P.A., Member
GEN Richard Cody, Member
Michael M.E. Johns, M.D., Member
Kenneth P. Moritsugu, M.D., M.P.H., Member
Leo Rouse, D.D.S., Member
HON Thomas McCaffery, ASD(HA) (Secretary of Defense designee)
Richard W. Thomas, M.D., D.D.S., President, USU
MG Telita Crosland, MC, USA, Representing the Surgeon General of the U.S. Army
RADM Bruce Gillingham, MC, USN, Surgeon General of the U.S. Navy
Maj Gen Sean Murphy, USAF, MC, Representing the Surgeon General of the U.S. Air Force
CAPT Joel Dulaigh, USPHS, Representing the Surgeon General of the United States

Advisors to the Board

RDML James Hancock, MC, USN, Medical Officer of the Marine Corps
Thomas Travis, M.D., M.P.H., Senior Vice President, Campus South, USU
William Roberts, M.D., M.B.A., Senior Vice President, Campus West, USU
Arthur L. Kellermann, M.D., M.P.H., Dean, F. Edward Hébert School of Medicine (SOM), USU
Diane Seibert, Ph.D., ARNP, Associate Dean for Academic Affairs, Daniel K. Inouye Graduate School of Nursing (GSN), USU
Thomas R. Schneid, D.M.D., M.S., Executive Dean, Postgraduate Dental College (PDC), USU
Lula Pelayo, Ph.D., R.N., Acting Dean, College of Allied Health Sciences (CAHS), USU
COL Mohammed Naeem, Director, Armed Forces Radiobiology Research Institute (AFRRI)
Mark Peterson, J.D., Legal Advisor to the Board, USU

OPENING COMMENTS

The meeting was called to order by the DFO and initial comments were made by the Board Chair, Dr. Woodson. He extended his appreciation to Ms. Sarah Marshall who volunteered to serve as the Acting DFO during the position vacancy, as well as a welcome to Ms. Askins-Roberts who has accepted the permanent position to fill the vacancy of the Board DFO.

MATTERS OF GENERAL CONSENT

Chair Woodson presented matters of general consent:

- Declaration of Board Actions since the May meeting
 - USU Exceptional Service Award for Brig Gen (Ret) Charles Potter, Assistant Vice President for University Programs, Southern Region
 - USU Exceptional Service Award for Col Jay Graver, Dean, Air Force Postgraduate Dental School
 - USU University Medal to Dr. Arthur Kellermann, Dean, F. Edward Hébert School of Medicine

BOARD ACTIONS

May Board minutes

Chair Woodson presented the updated May Board minutes.

Upon motion duly made and seconded, the Board

Vote by voice vote: Concurred with the minutes as drafted.

Degree Conferral – SOM Graduate Education

Dean Kellermann presented for endorsement (Tab 11) two degrees of Master of Science in Public Health and two Doctor of Philosophy candidates.

Upon motion duly made and seconded, the Board

Vote by voice vote: Concurred with the recommendations as presented by Dean Kellermann and recommended that the USU President confer the degrees as stated upon these candidates.

Degree Conferral – PDC

Dean Schneid presented for Board endorsement one candidate for the degree of Master of Science in Oral Biology based on successful completion of degree requirements as of June 30, 2020 (Tab 12).

Upon motion duly made and seconded, the Board

Vote by voice vote: Concurred with the recommendation as presented by Dean Schneid and recommended that the USU President confer the degree as stated upon the candidates.

Degree Conferral – CAHS

Dean Pelayo presented a total of 63 candidates for Board endorsement upon completion of associate (35) and bachelor degree (28) requirements, as noted in Tab 13.

Upon motion duly made and seconded, the Board

Vote by voice vote: Concurred with the recommendations of degree conferral upon completion of degree requirements, as presented by Dean Pelayo for conferral by the USU President.

Faculty Appointments and Promotions – SOM

Dean Kellermann presented the recommendations made by the SOM Committee on Appointments, Promotion and Tenure at the 15 June 2020 meeting or appropriate search committees (Tab 14). Notably, three of the individuals are being recommended for professor emeritus status, Drs. Ildy Katona, Cindy Wilson, and William Haffner.

Upon motion duly made and seconded, the Board

Vote by voice voted: Concurred with the recommendations as presented by Dean Kellermann and recommended that the USU President implement the actions for faculty appointment or promotion.

Faculty Appointments and Promotions – GSN

Associate Dean Seibert presented two recommendations made by the GSN Committee on Appointments, Promotion and Tenure (Tab 15).

Upon motion duly made and seconded, the Board

Vote by voice voted: Concurred with the recommendations as presented by Associate Dean Seibert and recommended that the USU President implement the actions for faculty appointment or promotion.

Faculty Appointments and Promotions – PDC

Dean Schneid presented one recommendation made by the PDC Committee on Appointments and Promotion at the meeting on 22 June 2020 (Tab 16).

Upon motion duly made and seconded, the Board

Vote by voice voted: Concurred with the recommendation as presented by Dean Schneid and recommended that the USU President implement the action for faculty appointment or promotion.

USU PRESIDENT REPORT

President Thomas' report to the Board is found at Tab 17. Dr. Thomas noted that the CAHS Dean and Vice President for Research searches have concluded and are pending announcements. The search committee for the Dean School of Medicine vacancy is being stood up and Dr. Louis Pangaro will serve as interim SOM dean. No actions were requested of the Board.

Regent Cody asked if HA leadership has considered doing a quadrennial review of the MHS. HON McCaffery noted that the MHS is doing a COVID AAR, as well as the DoD conducting a "lessons learned." Regent Cody noted the difficulty in rapidly providing clinicians or ramping up research and development once cuts have been made.

Regent Burke underscored the need to prepare for the next crisis and emphasized the necessary time to ramp up the resources to address future threats.

ASSISTANT SECRETARY OF DEFENSE FOR HEALTH AFFAIRS REPORT

HON McCaffery presented his report to the Board (Tab 18). No comments were raised by the Regents.

SCHOOL OF MEDICINE REPORT

Dean Kellermann presented his summary Board report highlights (Tab 19). He noted the tragic accidental death of a USU student, ENS John Grider. The SOM leaders in distributed learning described current initiatives for the Board. No actions were requested of the Board.

SCHOOL OF NURSING REPORT

Associate Dean Seibert provided a summary of Board report highlights (Tab 20). No actions were requested from the Board.

POSTGRADUATE DENTAL COLLEGE REPORT

Dean Schneid provided a highlight summary of his Board report (Tab 21). No actions were requested from the Board.

COLLEGE OF ALLIED HEALTH REPORT

Dean Pelayo provided a highlight summary of her Board report (Tab 22). Dean Pelayo recommended to the Board proposals for two new academic programs, the Pharmacy Technician Program and the Hospital Corpsman Basic Program.

Upon motion duly made and seconded, the Board

Vote by voice voted: Concurred with the recommendations as presented by Dean Pelayo and recommended that the USU President implement the proposals.

ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE REPORT

COL Naeem provided his inaugural highlight summary of his Board report (Tab 23) detailing his vision for AFRRI. No actions were requested of the Board. Maj Gen Murphy noted that AFRRI may benefit from connecting with the 711th Air Force Research Lab in order to attract young scientists and officers.

UNIVERSITY BRIGADE COMMANDER REPORT

COL Donahue provided his inaugural highlight summary of his Board report (Tab 24). No actions were requested of the Board. Chair Woodson asked the Brigade Commander what the student morale is currently regarding their future careers. COL Donahue noted one of the biggest

stressors for them is not being on campus. Regent Moritsugu asked what the University is doing proactively, such as offering mental health intervention to the students. The Brigade has sent out multiple email communications offering key messages and contacts for the students who desire assistance.

UNIVERSITY SOUTHERN REGION REPORT

Dr. Travis provided the highlight summary of his Board report (Tab 25). No actions were requested by Dr. Travis of the Board.

UNIVERSITY WESTERN REGION REPORT

Dr. Roberts provided the highlight summary of his Board report (Tab 26). No actions were requested by Dr. Roberts of the Board.

VICE PRESIDENT FOR FINANCE AND ADMINISTRATION REPORT

Mr. Tinling provided a highlight summary of his Board report (Tab 27). No actions were requested by Mr. Tinling of the Board.

VICE PRESIDENT FOR RESEARCH REPORT

Dr. Randolph provided a highlight summary of her Board report (Tab 28). No actions were requested by Dr. Randolph of the Board. Mr. Tinling elaborated on the cuts imposed as well as additional potential cuts. Chair Woodson noted that in the context of COVID, the importance of these research endeavors has become apparent and warrants additional clarity of message in emphasizing the importance of the health of the Force and the current risk posed by drastic cuts.

UNIVERSITY FACULTY SENATE REPORT

LTC Myatt, the new Senate President, provided a highlight summary of the Board report (Tab 29). No actions were requested of the Board. Chair Woodson asked if there were any faculty concerns about returning to work under the current COVID circumstances. LTC Myatt noted that several concerns have been raised and they have been raised to leadership. In addition, the Senate has brought in subject matter experts to discuss concerns and maximize communication.

Regent Cody asked HON McCaffery what the Board can do to assist in speaking with CAPE on the cuts discussed. Regent Cody noted the potential “perfect storm” that is approaching with the budget cuts. He asked HON McCaffery what can be done to stave off the cuts CAPE is recommending. HON McCaffery reinforced the importance of the Board working with Dr. Thomas in identifying impacts and implications of the proposed reductions. HON McCaffery does not think that the DoD topline budget will improve, in fact, may get worse.

HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE REPORT

Dr. Carvalho, HJF CEO, provided a highlight summary of the Board report (Tab 30).

OFFICE OF GENERAL COUNSEL REPORT

Mr. Peterson provided a highlight summary of the Board report (Tab 31). He asked that each Regent who is an annual OGE Form 450 filer at USU read, sign and return the enclosed handout. He also reminded Regents on the conflict of interest statute, within the criminal code.

CLOSING REMARKS

Chair Woodson again shared his appreciation to the departing School of Medicine Dean Kellermann.

ADJOURNMENT

Chair Woodson and the Board DFO adjourned the open portion of the meeting at 11:09 a.m.

SUBMITTED:

APPROVED:

Jeffrey L. Longacre, M.D.
Executive Secretary, Board of Regents

Jonathan Woodson, M.D.
Chair, Board of Regents

Prepared by: Jeffrey Longacre, MD, Executive Secretary, jeffrey.longacre@usuhs.edu

TAB 10

Declaration of Board Actions



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

DANIEL K. INOUE GRADUATE SCHOOL OF NURSING

4301 JONES BRIDGE ROAD

BETHESDA, MARYLAND 20814-4799

www.usuhs.edu



11 August 2020

MEMORANDUM FOR THE PRESIDENT, USU

THROUGH: USU BOARD OF REGENTS

SUBJECT: Honorary Naming of the Surgery Chair after Dr. Norman Rich

The USU Names and Honors Committee fully supports the honorary naming of the Surgery Chair after Dr. Norman Rich for his distinguished service to the Military Health System and the Uniformed Services University as the Surgery Chair and Professor.

Thank you for your consideration.

Carol A. Romano PhD, RN, FAAN
Dean and Professor
Chair of Names and Honors Committee

Richard W. Thomas, MD, DDS, FACS
President

14 August 2020

Date

Approve

Disapprove



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

SCHOOL OF MEDICINE
4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



July 24, 2020

MEMORANDUM FOR ARTHUR L. KELLERMANN, MD, MPH, FACEP, DEAN, SCHOOL
OF MEDICINE, UNIFORMED SERVICES UNIVERSITY

Arthur L. Kellermann, MD, MPH
Digitally signed by Arthur L. Kellermann, MD, MPH
Date: 2020.08.03 22:42:55
+04'00'

FROM: Eric A. Elster, MD, FACS, CAPT, MC, USN, Chairman of the Department of Surgery

SUBJECT: Request to Name Chair of Surgery at Uniformed Services University, Department of Surgery

The attached Justification is a formal request to name the Chair of Surgery at USU for the Department of Surgery's founding Chair, Dr. Norman M. Rich. Dr. Rich had a long and distinguished career of immense contributions to USU and Military Medicine. He was a powerful advocate for military medicine for over 50 years. His influence was critical to the establishment of USU in the 1970's. Dr. Rich is renowned internationally for outstanding contributions to trauma surgery during his military service and as a visionary pioneer of modern vascular surgery. Adding to a long list of honors, Dr. Rich recently was honored with the inaugural Distinguished Military Lifetime Achievement Award from American College of Surgeons. For his tireless commitment and dedication to the School of Medicine and the Uniformed Services University, he is exceptionally worthy of this signal honor of recognition.

Eric A. Elster, MD, FACS
CAPT, MC, USN
Professor and Chair
Department of Surgery
Uniformed Services University and Walter Reed
National Military Medical Center

Attachment
As stated:

Justification

Dr. Rich's expertise has brought vascular injury management into a new age. He advanced the treatment of arteriovenous injuries to the extremity that spared many soldiers limb amputation or death. Military and civilian patients have benefitted from the Vietnam Vascular Registry which he created in 1966. This registry contains valuable clinical data on more than 10,000 reported cases treated by surgeons involved in vascular trauma during the Vietnam War and all subsequent wars or conflicts.

Vietnam War Surgical Leader

As a young, newly trained surgeon and the chief of surgery, 2nd Mobile Army Surgical Hospital (MASH) unit during the Vietnam War, Dr. Rich refined vascular surgical techniques, particularly for arteriovenous injuries to the extremity, emphasizing the importance of venous and arterial system repairs. His expertise and newly espoused techniques helped save scores of soldiers from limb amputation or death. His efforts identified Dr. Rich as the surgeon who heralded a new age in vascular injury management, with particular focus on venous reconstruction.

Dr. Rich was the first vascular surgery fellow at Walter Reed General Hospital (1966-1967), Washington, DC, and assumed the position of Chief of Vascular Surgery and Director of the Vascular Fellowship Program in 1967, a post he held until 1978.

His initial academic appointment was as associate professor, the George Washington University, Washington, DC (1973-1978). He was also appointed professor of surgery at the Uniformed Services University of the Health Sciences (USUHS) School of Medicine in 1976, and became the first Chairman of the Department of Surgery in 1977. At the time of his retirement from active duty in 1980, he made a second commitment to serve as the chairman. He additionally served as chief, division of vascular surgery (1977-99), and director of the Vietnam Vascular Registry. He was the academic advisor to the Department of Surgery, and co-directed the Vascular Fellowship Program at Walter Reed Army Medical Center from 1978 onward, and became emeritus in 1993. He was appointed Professor of Military Medicine in 1983.

Chair of Surgery

Dr. Rich became the Leonard Heaton and David Packard Professor in 1999—a post named for two USUHS founders. He stepped down as the founding chairman of surgery in October 13, 2002, after more than 25 years of service, and USUHS announced the establishment of the Norman M. Rich Department of Surgery. When his successor, 1982 USUHS graduate Colonel David Burris, MD, FACS, deployed to Iraq in 2003, Dr. Rich stepped in as acting chairman. With the untimely death of Colonel Burris in August 2010, Dr. Rich continued to serve as deputy chairman with Captain USN Patricia L. McKay, MD, FACS, as interim chair. Dr. Rich became Professor Emeritus in Surgery in 2018 after 42 years at USUHS (58 years total in the Department of Defense). He served as Senior Adviser to the third USU chair of surgery, Eric A. Elster. Dr. Rich worked with CAPT Elster and David B. Hoyt, MD, FACS, ACS Executive Director, to develop the Military Health System Strategic Partnership American College of Surgeons (MHSSPACS).

At USHUS (now known as the Uniformed Services University [USU]), he was named the Outstanding Civilian Educator (1983–1984), and was awarded the Exceptional Service Medal (1989), the Outstanding Service Medal (2000), the USU Medal (2001), and the Carol Johns Medal as the Outstanding Faculty Member (2003). He also is a founder of USU Surgical Associates.

A Fellow of the ACS since 1970, Dr. Rich served on the College's Board of Governors (1983–1989), Committee on Chapter Relations (1985–1989), Committee on Trauma (COT) (1980–1995), International Relations Committee (1976–1986), and Surgical History Group Executive Committee (2017–2018). He became an Instructor for the ACS Advanced Trauma Life Support® course in 1980 and received the 2003 Surgeons' Award for Service to Safety from the ACS, the American Association for the Surgery of Trauma (AAST), and the National Safety Council. In 2014, he delivered the Excelsior Surgical Society/Edward D. Churchill Lecture at the 100th Clinical Congress and received the First Distinguished Organization Award from the ACS Foundation in 2015 for the Norman M. Rich Department of Surgery's efforts to establish the USU Surgical Associates' Military Professor of Surgery Fund at the ACS. He became the first Honorary Member of the revitalized Excelsior Surgical Society at the ACS Clinical Congress in 2016.

International Recognition

Dr. Rich has earned international recognition and lectured in more than 45 countries. He has published more than 300 manuscripts and has been the author or co-author of five books, including the first edition of *Vascular Trauma*, written with ACS Past-President Frank C. Spencer, MD, FACS, as well as two subsequent editions of the textbook. He has served on 10 editorial boards of clinical journals, including *Cardiovascular Surgery*, *Journal of Trauma*, *Journal of Vascular Surgery*, *Phlebology*, and *Surgery*. In 2009, he became the international co-editor of the *Polish Journal of Surgery*.

RECOMMENDATION

That the USUHS Board of Regents officially recognize this great leader and public servant for his dedication to the USUHS and the School of Medicine by recommending to the Secretary of Defense that the Chair be named:

The Norman M. Rich Chair of Surgery



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4712
www.usuhs.mil



13 August 2020

MEMORANDUM FOR PRESIDENT, UNIFORMED SERVICES UNIVERSITY

SUBJECT: Electronic Board Vote for Compensation Packages for Dr. Regina Armstrong and Dr. Mitchell Cahan

At the request of the Dean, School of Medicine, an electronic Board of Regents vote was conducted for endorsement/non-endorsement of two faculty. Waiting until the November Board meeting would have created a hardship on the individuals, as well as the School of Medicine.

The Board of Regents has endorsed the compensation package presented by the Dean, School of Medicine for Regina Armstrong, PhD, the newly selected Chair of the USU Department of Anatomy, Physiology, and Genetics.

The Board of Regents has also endorsed the compensation package presented by the Dean, School of Medicine for Mitchell Aaron Cahan, MD, MBA, FACS to professor, non-tenure clinician-educator track, for the position of Vice Chair for Education in the Department of Surgery.

Jeffrey Longacre, MD
Board of Regents Executive Secretary



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4712
www.usuhs.mil



4 September 2020

MEMORANDUM FOR PRESIDENT, UNIFORMED SERVICES UNIVERSITY

SUBJECT: Electronic Board Vote for Dr. Mark Kortepeter as USU Vice President for Research

On September 4, 2020, a majority vote was reached by the USU Board of Regents endorsing Dr. Mark Kortepeter as the USU Vice President for Research selectee, to include his accompanying salary package.

A handwritten signature in blue ink that reads "Jeffrey Longacre, M.D.".

Jeffrey Longacre, MD
Board of Regents Executive Secretary

CURRICULUM VITAE

NAME

Mark G. Kortepeter, MD, MPH
Colonel (Ret), MC, U.S. Army

Citizenship: United States

Clearance: TS/SCI at time of military retirement

EDUCATION

Harvard University, Cambridge, MA

	B.A. (Biology)	1979-1983
UMDNJ-New Jersey Medical School, Newark, NJ	M.D.	1984-1988
Harvard School of Public Health, Boston, MA	M.P.H. (Int'l Health)	1994-1995

GRADUATE MEDICAL EDUCATION

Internship, Rotating, Letterman Army Medical Center, San Francisco	1988-1989
Residency, Internal Medicine, Tripler Army Medical Center, Hawaii	1989-1992
Residency, General Preventive Medicine/Public Health Madigan Army Medical Center, Ft. Lewis, WA	1995-1996
Fellowship, Infectious Diseases Walter Reed Army Medical Center, Washington, DC	2004-2007

ACADEMIC APPOINTMENTS

Adjunct Assistant Professor of Pathology	2002-2003
Assistant Professor of Medicine, USUHS, Bethesda, MD	2004-2010
Associate Professor of Medicine, USUHS	11/2010-5/2015
Associate Professor of Preventive Medicine (primary), USUHS	11/2011-5/2015
Professor of Preventive Medicine and Medicine, USUHS (now adjunct)	5/2015-present
Professor of Epidemiology, Univ of Nebraska College of Public Health	9/1/16-present

CURRENT POSITIONS

Professor of Epidemiology, Sept 2016-Present

Director, Special Pathogens Research Network (SPRN), January 1, 2019-present

University of Nebraska School of Public Health, Omaha, NE

Working with the National Ebola Training and Education Center (NETEC) on hospital preparedness and containment care for highly hazardous pathogens. The SPRN includes 10 major medical centers in the US national disaster regions.

Adjunct Professor of Preventive Medicine and Medicine

May 2015-Present

Uniformed Services University of the Health Sciences (USUHS), Bethesda, MD 20814

Instructor on preventive medicine and infectious diseases for medical students

Chair, Infectious Disease Scientific Advisory Board, Integrum Scientific, LLC

Feb 2018-Present

Provide strategic direction and advice to the leadership team in conjunction with the members of

the Infectious Disease Scientific Advisory Board

PREVIOUS POSITIONS

Dec 2018-Jan 2019 (6 weeks)

Lead, Infection Prevention and Control for Ebola preparedness

World Health Organization (WHO), Bujumbura, Burundi

Six-week contract to lead IPC preparedness efforts against Ebola in Burundi, including providing safe, dignified burial training, organizing IPC SOPs, evaluating the provisional Ebola treatment unit (ETU), identifying and evaluating plans for a new ETU, and evaluating preparedness at 10 priority hospitals. I briefed the Minister of Health and Ebola Task Force on my findings.

September 2016 – April 2017

Senior Science Advisor, Medical Division

Laulima Government Solutions for USAMRIID

Provide subject matter expertise, training on especially dangerous pathogens and biodefense, and participate in animal and clinical research protocols

February 2014 – December 2015

Associate Dean for Research, Uniformed Services University of the Health Sciences (USUHS), Bethesda, MD 20814

Responsible for facilitating research activities, outreach to external research partners, assessing internal processes for efficiency and serving as a key advocate for research within the University.

July 2011 – December 2015

Consultant to the Army Surgeon General for Biodefense

Senior physician advisor on issues related to strategic and clinical aspects of biological weapon agents and defense. Serve as a subject matter expert on various government panels, including the NATO BioMedical Advisory Committee. Consultant for numerous activities related to 2014 West Africa Ebola outbreak

January – March 2014

Consultant to the Army Surgeon General for Infectious Diseases (acting)

Senior physician advisor to the Surgeon General on infectious disease issues affecting the Army. Serve as subject matter expert and responsible for determining assignments coordination for all 52 Army infectious disease personnel.

August 2010 – Feb 2014

Director, Infectious Disease Clinical Research Program, Dept of Preventive Medicine, USUHS, Bethesda, MD 20814

Senior leader of a \$20M (annual) clinical research within the Military Health System with ~150 personnel at 10 Military Treatment Facilities conducting 51 active protocols. Provide overall program direction, oversight, fiscal responsibility, and communication with a seven-member steering committee, funding collaborators, and key stakeholders within and outside the Department of Defense.

August 2009 – August 2010

Deputy Director, Infectious Disease Clinical Research Program, Dept of Preventive Medicine, USUHS

Deputy Director of a \$20M clinical research program in the Military Health System with ~150 personnel conducting 51 active protocols. Chair of the Scientific Review Board.

June 2008 – July 2009

Deputy Commander/Chief Operating Officer, USAMRIID

Deputy Commander of the nation's (and the world's) pre-eminent research institute for biological defense. Responsible for the day-to-day operation of the Institute, with an overall budget of \$100-\$125 million and over 800 personnel made up of military, civilian, and contractors. Provided oversight for a facility of 20 buildings, with 500,000 square feet, that included 50,000 square feet of Biosafety Level 3 space and 10,000 square feet of Biosafety Level 4 laboratory space. Served as acting Commander as needed, and senior medical advisor to the USAMRIID Commander and Commander, MRMC, on clinical and epidemiologic aspects of biothreat agents.

August 2007-June 2008

Deputy Chief, Virology Division, US Army Medical Research Institute of Infectious Diseases (USAMRIID)

Deputy Chief/Senior Medical Officer of a division of 84 military, civilian, and contract personnel at the world's premier biodefense research agency, with an annual budget of \$35 million, and includes 7 Biosafety Level 3/4 containment laboratory suites. Served as a principal investigator studying the pathophysiology of Ebola virus in non-human primates. Medical consultant to the command on clinical and epidemiologic issues for biothreat agents and infectious diseases.

May 2003 – June 2004 and June 2001-December 2002

Chief, Medical Division, USAMRIID

Division Chief of 80 personnel with a budget over \$4 million. Oversaw clinical vaccine research in the Special Immunizations Program, a national resource for over 600 military and civilian biological defense laboratory workers. Managed the Institute's 67,000 vial human use vaccine inventory and 56,000 historical clinical records. Oversaw management of potential occupational exposures in the laboratory to any biological containment pathogens. Represented the Institute as a consultant and subject matter expert on biological warfare and terrorism and served as the senior physician consultant to the Institute Commander on these issues.

December 2002 – May 2003

Special Medical Augmentation and Response (SMART-IND) Team

18-member team selected to develop contingency protocols for investigational drugs and vaccines in the event of a biological weapon release during Operations Enduring and Iraqi Freedom. The 18-member team initially worked at USAMMDA, Fort Detrick, MD, and 9 members (including myself) were deployed to Kuwait during the war.

ADDITIONAL PREVIOUS PROFESSIONAL POSITIONS:

Deputy Chief, Medical Division, USAMRIID	11/00-6/01
Chief, Education and Training Branch, Operational Medicine Div, USAMRIID	1/00-11/00
Preventive Medicine Staff Officer, Operational Medicine Div, USAMRIID	12/98-11/00
Chief, Preventive Medicine Department, Fort Sill, OK	11/97-9/98
Chief, Preventive Medicine, Medical Task Force-61 (Task Force Eagle), Operation Joint Guard, Stabilization Force (SFOR) Bosnia	2/97-10/97
Chief, Preventive Medicine Department, Fort Sill, OK	8/96-2/97
Staff Internist, Dept of Medicine, Womack Army Med Center, Ft Bragg, NC (Director of the HIV Clinic, 1993-1994)	1992-1994
Research Assistant, School of Medicine, University of California, San Diego	1983-1984

BOARD CERTIFICATION

National Board of Medical Examiners (Parts 1,2,3) Certificate number 356630	1989
American Board, Internal Medicine, Certificate number 142923	1992, 2002
American Board of Preventive Medicine, Certificate number 51472	1997 indef.
Certificate of Knowledge in Tropical Medicine/Travelers Health	2001
American Board of Infectious Diseases, Certificate number 142923	2007, 2018

MEDICAL LICENSURE

Hawaii State License, #MD-7145	June 18, 1990, valid thru January 31, 2020
Maryland State License #D0082153	Valid through Sept 30, 2020

HONORS/AWARDS (Non-military):

1981-1983 Dean's List, Harvard College
 1982-1983 Harvard College Scholarship
 1985 Alumni Scholarship, New Jersey Medical School
 1985-1988 Army Health Professions Scholarship, NJ Medical School
 1989 Nominee, Mason Award for Outstanding Intern, Letterman Army Medical Center
 1992 Finalist, Kay Kayser Research Competition, Tripler Army Medical Center
 1999 Multiple educational video awards as co-executive producer, International Satellite Broadcast, *Biological Warfare and Terrorism: The Military and Public Health Response*:
 1999 Aegis Award of Excellence
 2000 Communicator Award of Distinction
 1999 Bronze International Mercury Award
 1999 Silver Cinema in Industry Award
 2000 1st Place Golden Camera Award
 2012 Maher award, Department of Medicine, USUHS, "for excellence in research and vigorous support of the mission of the University"
 2013 Meritorious Service Award, "Distinguished prospective medical student interviewer, 2007-13," USUHS
 Awards received by the IDCPR during my tenure as Director:
 2011 Gold MARCOM award for the 2011 IDCPR Annual Report
 2012 Gold MARCOM award for the IDCPR website
 2013 Microsoft Life Sciences Innovation award for developing and deploying tablet-data capture solutions for research

HONORS/AWARDS(Military):

Legion of Merit (1)
 Defense Meritorious Service Medal (1)
 Meritorious Service Medal (6)
 Army Commendation Medal (3)
 Army Achievement Medal (3)
 Order of Military Medical Merit – Member #6142, August 22, 2002
 Army Medical Department "A" Proficiency Designator for expertise in Infectious Diseases

MILITARY EDUCATION:

Army Officer's Basic Course	1984
Army Officer's Advanced Course	1999
Army Command and General Staff College	2002

PROFESSIONAL SOCIETIES:

American College of Physicians	1993-date
Member, 1993; Fellow, 2002	

American College of Preventive Medicine Member, 1998; Certificate Number 5137	1998-date
American Society of Tropical Medicine and Hygiene Member 2000; Fellow 2017	2000-date
Armed Forces Infectious Disease Society	2007-date
Infectious Disease Society of America Member Member, 2008; Fellow 2014	2008-date

USUHS TEACHING ACTIVITIES:

2006

Interviewer for medical student applicants
Oversight of 4th year med. student on WRAMC ID consult service as a fellow
Preceptor, Introduction to Clinical Reasoning: fever and/or HIV

2007

Preceptor, ICM-III
Preceptor, Introduction to Clinical Reasoning: fever and/or HIV
Lecturer, Principles and Practice of Tropical Medicine PMO 560: anthrax
Lecturer, U.S. Military tropical medicine course: viral hemorrhagic fevers

2008

Preceptor, ICM-III
Preceptor, sessions on fever and/or HIV in Introduction to Clinical Reasoning
Lecturer, Principles and Practice of Tropical Medicine PMO 560: anthrax
Lecturer, U.S. Military tropical medicine course: viral hemorrhagic fevers

2009

Preceptor, ICM-III
Interviewer for medical student applicants
Preceptor, sessions on fever in Introduction to Clinical Reasoning
Lecturer, Principles and Practice of Tropical Medicine PMO 560: anthrax
Lecturer, U.S. Military tropical medicine course: viral hemorrhagic fevers
Lecturer, U.S. Military tropical medicine course: tularemia, plague, anthrax

2010

Preceptor, ICM-II
Preceptor, ICM-III
Interviewer for medical student applicants
Lecturer, Principles and Practice of Tropical Medicine PMO 560: anthrax
Lecturer, Principles and Practice of Tropical Medicine PMO 560: Ebola, Lassa, Hantavirus
Pulmonary Syndrome
Lecturer, U.S. Military tropical medicine course: viral hemorrhagic fevers
Lecturer, U.S. Military tropical medicine course: tularemia, plague, anthrax

2011-2012 academic year

Preceptor, ICM-III spring 2012
Interviewer for medical student applicants
Lecturer, Principles and Practice of Tropical Medicine PMO 560: anthrax (March 2012), Ebola, Lassa, Hantavirus (Apr 2012)
Lecturer, U.S. Military tropical medicine course: viral hemorrhagic fevers, tularemia, plague, anthrax (summer 2011)
Small group preceptor, Introduction to Clinical Reasoning – fever, Sept 2011
Small group preceptor, Travel Medicine, PMB, Jan 2012; ID Pharmacology Course, April 2012
Lecturer, Disaster Medicine Course, Feb 2012 (Bioterrorism)
Lecturer, Arbovirology Course, April 2012 (Viral Hemorrhagic Fevers)
Oral examination and faculty subject matter expert for student presentations, EID 504, April

2012

Outbreak Investigation class instructor, June 2012

2012-2013 academic year

Lecturer, U.S. Military tropical medicine course: viral hemorrhagic fevers, tularemia, plague, anthrax (summer 2012)

Lecturer, Principles and Practice of Tropical Medicine PMO 560: anthrax, Ebola, Lassa, Hantavirus

Integrated Skills Training Preceptor: module 7 (fever – Oct 2012); module 3(cardio/pulm/renal-Feb 2013), comp H&P (Nov 2012)

Lecturer, Disaster Medicine Course, Jan 2013 (Bioterrorism)

Lecturer, Arbovirology Course, April 2013 (Viral Hemorrhagic Fevers)

2013-2014 academic year

Lecturer, US Military Tropical Medicine Course: viral hemorrhagic fevers, tularemia, plague, anthrax – July 2013

Lecturer, Principles and Practice of Tropical Medicine PMO 560: anthrax, Ebola, Lassa, Hantavirus

Lecturer, Disaster Medicine Course, Jan 2014 (Bioterrorism)

Lecturer, Arbovirology Course, April 2014 (Viral Hemorrhagic Fevers)

Lecturer, Emerging Infectious Disease course (Ebola)

Lecturer, Epidemiology of Infections (Epidemiology of Bioterrorism)

2014-2015 academic year

Lecturer, US Military Tropical Medicine Course: viral hemorrhagic fevers, tularemia, plague, anthrax – July 2014

Preceptor – Medical History taking – Sept 2014; Basic medicine module on antibiotics

Lecturer, course on occupational health (2nd year students): occupational risks for managing Ebola.

Panelist – Domestic Disaster Mgmt and Response (PMO 1009) – bioterrorism

Lecturer, Epidemiology of Infections (Epidemiology of Bioterrorism)

Lecturer, Spring tropical medicine course (Ebola, Lassa, anthrax, epi of BT)

2015-2016 academic year

Lecturer, US Military Tropical Medicine Course: viral hemorrhagic fevers, tularemia, plague, anthrax – July 2015

Lecturer, Epidemiology of Infections (Epidemiology of Bioterrorism) Jan 2016

Lecturer, Spring tropical medicine course (Ebola, Lassa, anthrax, epi of BT) April 2016

2016-2017 academic year

Lecturer, US Military Tropical Medicine Course: viral hemorrhagic fevers, tularemia, plague, anthrax – July 2016

Lecturer, Epidemiology of Infections (Epidemiology of Bioterrorism) Jan 2017

Lecturer, Spring tropical medicine course (Ebola, Lassa, anthrax, epi of BT) April 2017

2017-2018 academic year

Lecturer, US Military Tropical Medicine Course: viral hemorrhagic fevers, tularemia, plague, anthrax – July 2017

Lecturer, Epidemiology of Infections (Epidemiology of Bioterrorism) Jan 2018

Lecturer, Spring tropical medicine course (Ebola, Lassa, anthrax, epi of BT) March 2018

Tropical Medicine Working Group facilitator – Malaria; Tropical medicine cases and presentations, spring 2018

2018-2019 academic year

Lecturer, US Military Tropical Medicine Course: viral hemorrhagic fevers, tularemia, plague, anthrax – July 2018

Medicine Research meeting – lecture on Ebola research May 2019

Lecturer, Epidemiology of Infections (Epidemiology of Bioterrorism) Jan 2019

Preventive Medicine Grand Rounds (Ebola preparedness in Burundi) April 2019

Medicine Rounds (Ebola Supportive Care) May 2019

2019-2020 academic year

Lecturer, US Military Tropical Medicine Course: viral hemorrhagic fevers; tularemia, plague, anthrax; WHO work in Burundi – July-Aug 2019

OTHER TEACHING ACTIVITIES

USAMRIID's Medical Management of Biological Casualties Course Quarterly from 1999 – 2004 and 2007 – present. Lectures have included: Anthrax, Anthrax Vaccine, Medical Mgmt of Biological Weapons Casualties, Smallpox, Epidemiology of bioterrorism, Clinical Case Studies, Overview of USAMRIID, Brucellosis, Q fever, *Burkholderia mallei*, *Burkholderia pseudomallei*, Ebola preparedness in Burundi.

September 21-22, 1999. Co-executive Producer, lead scriptwriter, and co-host *Biological Warfare and Terrorism: The Military and Public Health Response* – 8-hour international satellite Broadcast (winner of 5 major industry awards). Produced in cooperation with the Centers for Disease Control and Prevention.

2000. Director, Medical Management of Biological Casualties Course, USAMRIID's quarterly in-house course for training military medical personnel.

September 26-28, 2000. Executive Producer, lead scriptwriter, and co-host *Biological Warfare and Terrorism: Medical Issues and Response* – 12-hour satellite broadcast.

2006. Subject Matter Expert and interviewee, video on anthrax and anthrax vaccine, Produced by the Military Vaccine Agency.

EDITORIAL ACTIVITIES

Reviewer, <i>Clinical Infectious Diseases</i>	2006-
Reviewer, <i>Military Medicine</i>	2010-
Reviewer, <i>Infectious Diseases in Clinical Practice</i>	2011
Reviewer, <i>Antiviral Research</i>	2011
Reviewer, <i>PLoS Neglected Tropical Diseases</i>	2012
Reviewer, <i>Emerging Health Threats Journal</i>	2012
Reviewer, <i>Biosecurity and Bioterrorism</i>	2012-
Reviewer, <i>Travel Medicine and Infectious Diseases</i>	2013
Reviewer, <i>New England Journal of Medicine</i>	2014
Reviewer, <i>Tropical Diseases, Travel Medicine and Vaccines</i>	2015-
Editorial Board, <i>Tropical Diseases, Travel Medicine and Vaccines</i>	2015-
Reviewer, <i>BMJ Best Practice</i>	2016
Reviewer, <i>Journal of Infectious Diseases</i>	2016-

CURRENT ONGOING COMMITTEES/PANELS:

2011 – present: Annual Program Review Committee, Clinical Group, American Society of Tropical Medicine and Hygiene – review Symposia proposals and abstract presentations for the annual meeting; Chair, March 2019-present

Aug 2017 – present: External Advisory Council, University of Nebraska Medical Center's National Center for Health Security and Biopreparedness

PREVIOUS COMMITTEE ASSIGNMENTS – INSTITUTIONAL

1993-1994. Member, Drug Utilization Committee, Womack Army Med Center, NC

August 1996-September 1998. Member, Occupational Health Committee, Fort Sill, OK

August 1996-September 1998. Chairman, Infection Control Committee, Reynolds Army Community Hospital

June, 2001 – June 2004. USAMRIID Committees, as Chief, Medical Division:

Special Immunizations Committee (Chair)

Quality Assurance Committee

Scientific Review Committee

Safety Committee

Biosurety Committee

June 2008 – July 2009 USAMRIID Committees, as Deputy Commander:

Program Management Committee (Chair)

Integrated Technology Governance Committee (Chair)

October 2009 – August 2010. Scientific Review Board (Chair), Infectious Disease Clinical Research Program, Uniformed Services University, Bethesda, MD

November 2008 – December 2015. (Vice Chair 2014-2015) Biodefense Subject Matter Expert with U.S. Delegation to the Biomedical Advisory Committee (BioMedAC), NATO, Brussels, Belgium.

2011 – 2015: Member, IIP Oversight Committee, Military Infectious Disease Clinical Research Program – provide oversight to Army-funded intramural research activities.

2011 – 2015: Member JPC-2 Proposal Review Committee, Military Infectious Disease Clinical Research Program – review annual funding proposal submissions for basic and applied research.

February 2014 – December 2015

Ex officio member, and periodic alternate voting member for Army Infectious Disease Consultant, Steering Committee of the Infectious Disease Clinical Research Program

January 2014 – December 2015

Institute of Medicine Microbial Threats Panel; USUHS representative

Institute of Medicine Planning Committee for Ebola virus meeting, March, 2015

SCIENTIFIC PANELS/WORKING GROUPS – INVITED

January 19-21, 1999. Biological Warfare Improved Response Plan (BWIRP) - Panel to identify methods to establish information sharing relationships between the law enforcement community and the medical/public health community to ensure the timely exchange of critical information and the rapid identification of a terrorist incident involving biological agents.

March 23, 1999. Institute of Medicine, Washington, D.C. Panel presenting deployment surveillance data during peacekeeping operations (SFOR) in Bosnia.

April 16-19, 1999. Biological Warfare Improved Response Plan (BWIRP) - Panel to review elements of a plan for responding to use of a communicable disease (smallpox) in a terrorist incident.

November, 1999 – November, 2000. USAMRIID liaison to Anthrax Vaccine Immunization Program working group on Anthrax Vaccine Risk-Benefit Communication expert model development.

May 23-25, 2000. Group facilitator and participant in the Department of Defense Global Emerging Infections System (DoD-GEIS) Conference and Workshop on Syndromic and Other Surveillance Methods for Emerging Infections, Including Bioterrorism.

November 28-30, 2001. Co-host, panel guest, and consultant to the producer of USAMRIID's satellite program: *Biological and Chemical Warfare and Terrorism: Medical Issues and Response*.

December 10-11, 2001. Panel to assess a protocol on an evaluation of the safety of Anthrax Vaccine Adsorbed (AVA). USAMRIID Medical Division in conjunction with the Anthrax Vaccine Immunizations Program.

2001. Scientific expert panel for the Dept of Defense to develop a model for assessing biowarfare threat agents for preparedness prioritization, St. Michaels, MD

2002-2003. Working Group tasked by the Secretary, Health and Human Services to assess national preparedness against an attack with botulinum toxin

2005. Panel to develop a consensus statement for developing biocontainment patient care units, Omaha, Nebraska

October 25-26, 2007. Invitation-only workshop to determine appropriate medical management of laboratory exposures to Biosafety Level 3 and 4 pathogens, NIAID

May 6-10, 2008. USAMRIID representative to NATO meeting to evaluate recommended modifications to the biological portion of the NATO Amedd P8(c) Planning Guide for Estimation of CBRN Casualties Study Draft 2. San Lorenzo del Escorial (Madrid), Spain

October 7-10, 2008. ChrySalis Workshop to initiate planning for new biocontainment laboratory facilities for Porton Down, UK. Bath, United Kingdom.

November 11-12, 2008. Meeting to assess appropriate measures for the management of viral hemorrhagic fevers organized by NIAID Integrated Research Facility. New Orleans, LA.

May and September 2009. Consultant, World Health Organizations Clinical Network Sepsis Working Group. Meetings attended in Geneva, Switzerland and Florence, Italy, respectively.

August 17, 2009. Group Facilitator, Tabletop exercise on pandemic influenza. Military Force Health Protection Meeting. Albuquerque, NM.

February 15-17, 2011. Subject matter expert, Workshop on Exposure management and Evacuation of WHO/GOARN staff during field investigations of Highly Infectious Diseases. Hosted by the Italian Government and the World Health Organization (WHO), convened at

INMI (*Istituto Nazionale per le Malattie Infettive*) L. Spallanzani, Rome.

May 2012: Subject Matter Expert Representing the Office of the Army Surgeon General (OTSG), Able Response 12 Table top biodefense exercise, Seoul, Korea.

Sept 30, 2013: Scientific Board of Advisors, Biomedical Advanced Research and Development Authority (BARDA), Office of the Assistant Secretary for Preparedness & Response, Department of Health and Human Services, Rockville, Maryland.

2014: External Advisory Group, Defense Threat Reduction Agency biodefense therapeutic portfolio overview (USAMRIID), Falls Church, VA.

2016: Scientific Advisory Board, Military Infectious Disease Research Program

May 2017: Filovirus Animal Non-Clinical Group (FANG) Ebola Workshop – facilitator Ebola clinical disease session.

May 2018: WHO Global Outbreak Alert and Response Network (GOARN) workshop on “Integrating Research Into Response.” Geneva, Switzerland.

CLINICAL TRIAL SAFETY OVERSIGHT

Medical Monitor – *Plasmodium vivax* vaccine

Data Safety Monitoring Board – *Plasmodium falciparum* recombinant vaccine

Data Safety Monitoring Board – Dengue Human Challenge Model 2015-2019

GRANTS and FUNDING AGREEMENTS

Grant Title: Development of advanced nonhuman primate models and clinical management algorithms for the treatment of severe filovirus and poxvirus infections

Funding Agency: Defense Threat Reduction Agency

Amount: \$645,545

Period: 2007-2009

Role: Principal Investigator transferred in 2007 from Dr. James Lawler.

Grant Title: The natural history and pathogenesis of human orthopoxvirus and filovirus infection

Funding Agency: Defense Threat Reduction Agency

Amount: ~\$700,000

Period: FY09 (3 year proposal)

Role: Principal Investigator. Transferred PI role to Dr. Lisa Hensley upon assuming position of Deputy Commander of USAMRIID

Grant Title: USUHS-NIAID Interagency Agreement for the Infectious Disease Clinical Research Program

Funding Agency: NIAID

Amount: \$11,789,782

Period: FY10

Role: Project Officer/Principal Investigator

Grant Title: USUHS-NIAID Interagency Agreement for the Infectious Disease Clinical Research Program

Funding Agency: NIAID
Amount: \$10,000,000
Period: FY11
Role: Project Officer/Principal Investigator

Grant Title: USUHS-NIAID Interagency Agreement for the Acute Respiratory Infection Consortium of the Infectious Disease Clinical Research Program

Funding Agency: BARDA/NIAID
Amount: \$3,573,018
Period: FY11
Role: Project Officer/Principal Investigator

Grant Title: USUHS-NIAID Interagency Agreement for the Infectious Disease Clinical Research Program

Funding Agency: NIAID
Amount: \$10,000,000
Period: FY12
Role: Project Officer/Principal Investigator

Grant Title: USUHS-NIAID Interagency Agreement for the HIV Natural History Study and Associated Sub-studies of the Infectious Disease Clinical Research Program

Funding Agency: NIAID
Amount: \$7,100,000
Period: FY12
Role: Project Officer/Principal Investigator

Grant Title: USUHS-NIAID Interagency Agreement for the Infectious Disease Clinical Research Program

Funding Agency: NIAID
Amount: \$10,000,000
Period: FY13
Role: Project Officer/Principal Investigator

INVITED EXTRAMURAL PRESENTATIONS

1. Four lectures on medical management of biological weapons casualties. Officer Advanced Course, Fort McClellan, AL. March 7, 1999.
2. Public Health Mission, Operation Joint Guard, Bosnia. Presented at the Armed Forces Infectious Disease Society Meeting, Panama City, FL. April 22, 1999
3. Four lectures on medical aspects of biological terrorism. Presented at the "Medical Preparedness for Biological Terrorism Lecture Series, Alabama Public Health Association Meeting, Florence, AL. April 28, 1999.
4. Bioterrorism Response. Presented at the Florida Public Health Association Meeting on Bioterrorism, Tampa, FL. May 6, 1999.
5. Bioterrorism. Presented at the Sigma Psi Chapter meeting, Bethesda, MD. June 9, 1999.
6. Smallpox lecture and outbreak scenario developed. Presented at the Center for Army Analysis Bioterrorism response working group meeting, Washington, DC. June 29-30, 1999.
7. Lectures on Bioterrorism and Anthrax. Presented at the National Environmental Health Association Meeting, Nashville, TN. July 6, 1999.

8. Anthrax, Anthrax vaccine. Presented to the medical staff at Wilford Hall/Brooke Army Medical Center, San Antonio, TX. October 13-14, 1999.
9. USAMRIID's Role in Bioterrorism Response. Presented at OpMed 99, the Canadian Army's biannual medical conference. Quebec City, Canada. November 2-4, 1999.
10. Smallpox. Presented at the AMSUS Convention as part of a course on medical management of biological weapons casualties. Anaheim, CA. November 5-6, 1999.
11. Bioterrorism. Presented to the Medical Directors of the Federal Bureau of Prisons Annual Meeting. San Diego, CA. December 4-6, 1999.
12. Smallpox. Presented to the Frederick County Health Department, Frederick, MD. February 4, 2000.
13. Distinguishing Natural vs. Unnatural Outbreaks. Presented at the Emerging Threat of Bioweapons Course, Uniformed Services University of the Health Sciences, Bethesda, MD. February 22, 2000.
14. Biological Weapons. Presented to the Officer Advanced Course, Fort Leonard Wood, MO. February 24, 2000.
15. Weapons of Mass Destruction Response Teams and served on a panel related to smallpox response. Presented at the University of Alabama, Birmingham, AL. March 6-8, 2000.
16. Biological Terrorism. Presented as a Plenary Lecture for "Prevention 2000," the annual meeting of the American College of Preventive Medicine. Atlanta, GA. March 24, 2000.
17. Medical Research in a BW Environment. Presented for the Defense Intelligence Agency Chemical-Biological Warfare Intelligence Course (CABWIC). June 14, 2000.
18. Medical Management of Biological Weapons Casualties. Presented in the AACC annual Meeting, San Francisco, CA. July 24, 2000.
19. Biological Weapons. Presented for the Chemical Officer Advanced Course, Fort Leonard Wood, MO. August 2, 2000.
20. Epidemiology of Bioterrorism. Presented in the Defense Intelligence Agency Chemical-Biological Warfare Intelligence Course (CABWIC). August 14, 2000.
21. Biological Terrorism. Presented at the Virginia annual forensic meeting, Virginia Beach, VA. August 31, 2000.
22. Anthrax. Presented to the Institute of Medicine Expert Panel reviewing the Dept of Defense anthrax vaccine program, Washington, DC. October 3, 2000.
23. Anthrax, smallpox, clinical case studies. Presented for the Joint Readiness 2000 exercise, Minneapolis, MN. October 12-13, 2000.
24. Overview of Bioterrorism. Presented at the Maryland Department of Health Annual Lab Symposium. October 21, 2000.
25. Anthrax, smallpox, clinical case studies. Presented as part of a course on medical management of biological warfare casualties at the AMSUS convention, Las Vegas, NV. November 5, 2000.
26. Biological Terrorism. Presented at the American Water Works Association (AWWA) annual meeting. Salt Lake City, UT. November 7, 2000.
27. Medical Management of Biological Weapons Casualties. Presented at the Army annual ACP meeting, Fairfax, VA. November 17, 2000.
28. Epidemiology of Bioterrorism. Presented to the Defense Intelligence Agency Chemical-Biological Warfare Intelligence Course (CABWIC). Washington, DC. November 30, 2000.
29. Overview of Bioterrorism. Presented to the Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD. January 17, 2001.
30. Seminar on Medical/Public Health Aspects of Bioterrorism. Presented at the Reserve

- Officer Association Annual Conference, Washington, DC. February 4, 2001.
31. Epidemiology of Bioterrorism. Presented at the Emerging Threat of Bioweapons Course, Uniformed Services University of the Health Sciences, Bethesda, MD. March 6, 2001.
 32. Epidemiology of Bioterrorism. University of Connecticut Health Center School of Medicine. Hartford, CT. April 3, 2001.
 33. Epidemiology of Bioterrorism. Presented at the Armed Forces Infectious Disease Society Meeting, Honolulu, HI. April 10, 2001.
 34. Epidemiology of Bioterrorism. Presented at the Defense Intelligence Agency Chemical-Biological Warfare Intelligence Course (CABWIC), Washington, DC. June 7, 2001.
 35. Bioterrorism and USAMRIID's Special Immunizations Program. Presented at Frederick Memorial Hospital Grand Rounds, Frederick, MD. 2001.
 36. Epidemiology of Bioterrorism, Smallpox, Anthrax. Presented in a course on Emergency Medical Response to Weapons of Mass Destruction, Fort McCoy, WI. 2001.
 37. Mini course of Bioterrorism. Presented at the Military Annual Force Health Protection Conference, Albuquerque, NM. August 27, 2001.
 38. Distinguishing Natural from Unnatural Outbreaks and clinical case studies. Presented in USAMRIID's Medical Management of Biological Casualties Course, Frederick, MD
 39. Lectures on Epidemiology and Clinical Features, Treatment, and Prevention of CDC Category A Threat Agents. Presented at The American College of Preventive Medicine's Annual Meeting, San Antonio, TX. February 20, 2002.
 40. Epidemiology of Bioterrorism. Presented at the Defense Intelligence Agency Chemical-Biological Warfare Intelligence Course (CABWIC), Washington, DC on June 13 and December 5, 2002.
 41. Epidemiological Aspects of Biological Warfare/Terrorism. Presented to the Bioterrorism Science and Policy Course, Uniformed Services University of the Health Sciences, Bethesda, MD. January 11, 2003.
 42. Multiple lectures on Botulism: the Threat, Treatment, and Prevention. Presented at multiple Combat Support Hospitals in-theater during Operation Enduring Freedom, Kuwait City, Kuwait. February 24 – May 4, 2003.
 43. Epidemiology of Bioterrorism. Presented to the Defense Intelligence Agency Chemical-Biological Warfare Intelligence Course (CABWIC), May, 2003.
 44. Logistics Challenges to the Uses of Investigational New Drugs in an Operational Environment. Presented to the MRMC Human Subjects Research Review Board Off-site Meeting. August, 2003.
 45. Ethical and Logistics Challenges to use of Investigational New Drugs in an Operational Environment – the SMART IND Experience. Presented at the Armed Forces Infectious Disease Society Meeting, Key West, FL. March 2004.
 46. Filariasis – Case Report. Presented at the Greater Washington Infectious Disease Society Meeting. April, 2005.
 47. Filariasis – Case Report. Presented at Tropical Medicine Rounds, National Institutes of Health, Bethesda, MD. April, 2005.
 48. Filariasis – Case Report. Presented at Internal Medicine Grand Rounds, Walter Reed Army Medical Center, Washington, DC, August 12, 2005.
 49. Category A Bioterrorism Threat Agents. Presented to the medical staff, Fort Meade MEDDAC, Fort Meade, MD, October 5, 2005.
 50. Peritoneal Tuberculosis. Presented at the Greater Washington Infectious Disease Society Meeting, October 24, 2005.

51. Managing an Exposure to Ebola Virus. Presented in an all-day seminar on management a laboratory exposure to a biothreat agent. ICAAC Annual Meeting, Washington, DC. December 15, 2005.
52. Managing an Exposure to Ebola Virus. Presented at the Armed Forces Infectious Disease Society Meeting, Bandera, TX. April 10, 2006.
53. Category A Bioweapon Threat Agents. Presented at the Internal Medicine Grand Rounds, Walter Reed Army Medical Center, Washington, DC. June 2, 2006.
54. Managing an Exposure to Ebola Virus. Presented in an all-day seminar on management a laboratory exposure to a biothreat agent. ICAAC Annual Meeting, San Francisco, CA. September 26, 2006.
55. Meningococcal Supraglottitis – Case Report. Presented at the Greater Washington Infectious Disease Society Meeting. October 23, 2006.
56. Lectures on Brucellosis, Smallpox. Presented to Infectious Disease physicians at the National Center for Disease Control, Republic of Georgia in cooperation with the Defense Threat Reduction Agency TADR Program. March, 2007.
57. Case Reports on Cutaneous Anthrax and Eczema Vaccinatum. Presented at the Armed Forces Infectious Disease Society Meeting, Gettysburg, PA. April 2007.
58. Anthrax. Presented to the Tropical Medicine Course, Uniformed Services University of the Health Sciences, Bethesda, MD. April, 2007.
59. Case reports of Cutaneous Anthrax and Eczema Vaccinatum. Presented at the NIH Tropical Medicine Rounds, Bethesda, MD. April, 2007.
60. Subject matter expert for physician training on especially dangerous pathogens, National Center for Disease Control, Republic of Georgia in cooperation with the Defense Threat Reduction Agency TADR Program, May 2007.
61. Viral Hemorrhagic Fevers, Rift Valley Fever/CCHF. Presented in the Uniformed Services University of the Health Sciences Tropical Medicine Course, Bethesda, MD, July, 2007.
62. Medical Management of a BSL-4 Lab Exposure. Presented at the NIAID invite-only meeting on BSL-3/4 Pathogen Exposure Management, Bethesda, MD. October 25, 2007.
63. Filovirus Infection and Requirements for a Vaccine. Presented at the DARPA meeting on Emergency Vaccines, Maryland. November 29, 2007.
64. Lectures on Tick-borne Encephalitis, Brucellosis, Smallpox. Presented to Infectious Disease Experts, Anti-Plague Station, Baku, Azerbaijan, in cooperation with the Defense Threat Reduction Agency TADR Program. November 30-December 9, 2007.
65. Overview of USAMRIID Research Activities. Presented to the National Capital Consortium Infectious Disease Rounds, Walter Reed Army Medical Center. March, 2008.
66. Lectures on Tick-borne Encephalitis, Viral Hemorrhagic Fevers, Smallpox, and Laboratory Assay Overview. Presented to Infectious Disease Experts, Anti-Plague Station, Baku, Azerbaijan, in cooperation with the Defense Threat Reduction Agency TADR Program. April, 2008.
67. Anthrax. Uniformed Services University of the Health Sciences Tropical Medicine Course, Bethesda, MD. April, 2008.
68. Viral Hemorrhagic Fevers, Rift Valley Fever/CCHF. Uniformed Services University of the Health Sciences Tropical Medicine Course, Bethesda, MD. July, 2008.
69. Anthrax. Uniformed Services University of the Health Sciences Tropical Medicine Course, Bethesda, MD. March, 2009.
70. Report on HFM-ET-091. Presented to the NATO Biomedical Advisory Committee Expert Panel, Antalya, Turkey. May, 2009.
71. Lecture on Viral Hemorrhagic Fevers; Lecture on Anthrax, Plague, Tularemia.

- Uniformed Services University of the Health Sciences Tropical Medicine Course, Bethesda, MD. July, 2009.
72. Lectures on USAMRIID and Management of a BSL-4 Laboratory Exposure. Army Force Health Protection Meeting, Albuquerque, NM. Aug, 2009
 73. Meet the Professor lecture: Lecture on Evolution in Management of a BSL-4 Laboratory Exposure in a seminar “Biosafety accidents: stories from the front line.” Infectious Disease Society of America Meeting, Philadelphia, PA. Oct, 2009.
 74. Lecturer on Viral Hemorrhagic Fevers in a Seminar entitled: “Health Care Worker/Researcher in Overseas Care Settings with Potential disease Transmission. What’s the risk and what should you do? American Society of Tropical Medicine and Hygiene Meeting, Washington, DC. Nov, 2009
 75. Lectures on Brucellosis, Viral Hemorrhagic Fevers, Smallpox presented to Armenian Infectious Disease physicians for DTRA/TADR program, Yerevan, Armenia, Dec 2009
 76. Lecture, Anthrax. Principles and Practice of Tropical Medicine PMO 560, Uniformed Services University, February, 2010
 77. Lectures on Brucellosis, Viral Hemorrhagic Fevers, Smallpox; case discussions on anthrax and botulism presented to Ukrainian Infectious Disease physicians for DTRA/TADR program, Kiev, Ukraine, March 2010
 78. Lecture, Viral Hemorrhagic Fevers: Ebola, Lassa, Hantavirus Pulmonary Syndrome, Principles and Practice of Tropical Medicine PMO 560, Uniformed Services University, April 8, 2010
 79. Lecture, Congo-Crimean Hemorrhagic Fever case and discussion. NATO Biomedical Advisory Committee Meeting, Munich, Germany, May 18, 2010.
 80. Lecture, Viral Hemorrhagic Fevers: Military Tropical Medicine Course, Uniformed Services University, July 15, 2010.
 81. Lecture, Anthrax, plague, tularemia: Military Tropical Medicine Course, Uniformed Services University, July 19, 2010.
 82. Lecture, Viral Hemorrhagic Fevers: Walter Reed Army Institute of Research Tropical Medicine Course, September 17, 2010.
 83. Lecture, Telemetry data analysis – recent happenings at Fort Detrick, Fort Detrick Campus Technology Symposium, November 30, 2010.
 84. Lecture, New insights into pathophysiology of Ebola virus. Workshop on Exposure management and Evacuation of WHO/GOARN staff during field investigations of Highly Infectious Diseases. Italian Government and World Health Organization invitation only meeting, INMI (*Istituto Nazionale per le Malattie Infettive*) L. Spallanzani, Rome. 15-17 February 2011.
 85. Lecture, American Academy of Pediatrics 45th Annual Uniformed Services Pediatric Seminar, Washington, DC. Biodefense: Overview of Ebola virus. 15 March 2011.
 86. Lecture, University of Nebraska/Creighton University 31st Annual Infectious Disease Symposium, Omaha, Neb; Ebola Virus – New Insights into a Killer, April 29, 2011.
 87. Grand Rounds, Preventive Medicine and Biometrics Dept., Uniformed Services University: Ebola Virus – New Insights Using Telemetry Systems, May 11, 2011.
 88. Lecture: Walter Reed Army Institute of Research Tropical Medicine Course: Viral Hemorrhagic Fevers, May 17, 2011.
 89. Lecture, Viral Hemorrhagic Fevers: Military Tropical Medicine Course, Uniformed Services University, July 14, 2011.
 90. Lecture, Anthrax, plague, tularemia: Military Tropical Medicine Course, Uniformed Services University, July 18, 2011.
 91. Lecture, West Virginia University Tropical Medicine Certification Course: Non-dengue Viral Hemorrhagic Fevers, August 1, 2011

92. Lecture, West Virginia University Tropical Medicine Certification Course: Non-dengue Viral Hemorrhagic Fevers, July 30, 2012
93. Invited Speaker, Animal Model Development Workshop, Sponsored by NIAID, FDA, TMT, BARDA held at the National Institutes of Health Natcher Conference Center. "Supportive Care for Filoviruses: Challenges and Opportunities." 17 September 2012
94. Lecture, Armed Forces Radiobiology Research Institute (AFRRI), Bethesda, MD: "Ebola Virus: Using Telemetry to Gain New Insights into a Deadly Disease," January 4, 2013
95. Lecture, West Virginia University Tropical Medicine Certification Course: Non-dengue Viral Hemorrhagic Fevers, July 29, 2013
96. Lecture, West Virginia University Tropical Medicine Certification Course: Non-dengue Viral Hemorrhagic Fevers, July 2014
97. Washington Veterans Administration Medical Center: Lecture to Infectious Disease Fellows – Viral Hemorrhagic Fevers/Ebola. Sept 18, 2014
98. Tropical Medicine Course, Fort Stewart, Georgia. 30 Sept – 2 Oct 2014
99. National Defense University, Viral Hemorrhagic Fevers and Ebola, October 29, 2014
100. Grand Rounds, Womack Army Medical Center: Ebola Virus, November 19, 2014
101. Internal Medicine Rounds, Walter Reed National Military Medical Center: Ebola Virus, December 18, 2014
102. Internal Medicine Grand Rounds, Washington Hospital Center, Viral Hemorrhagic Fevers and Ebola, January 7, 2015
103. Food and Drug Administration Lecture Series: Ebola Virus, January 14, 2015
104. Institute of Medicine Workshop of Ebola virus, Washington, DC: Evolution of Containment Care March 25, 2015
105. 7th International Meeting on Filoviruses, Washington, DC: Evolution of Containment Care March 27, 2015
106. Food and Drug Administration Office of Orphan Product Development: Ebola Virus, July 8, 2015
107. 2015 Defense Threat Reduction rVSV Ebola Vaccine Safety Review: Ebola Post-exposure Prophylaxis with rVSV Vaccine, July 16, 2015.
108. Defense Threat Reduction – Program on Especially Dangerous Pathogens, Nairobi, Kenya. Epidemiology of Bioterrorism, Feb 2016.
109. Infectious Disease Rounds, Nebraska Medical Center, University of Nebraska, Omaha. Epidemiology of Bioterrorism, April 2016.
110. Tropical Medicine Certification Course, West Virginia University. Viral Hemorrhagic Fevers and non-dengue Arboviral Infections, July 2016.
111. Lectures at the School of Veterinary Medicine and School of Medicine, University of Missouri, Columbia, MO. Distinguishing Biothreat Diseases from Influenza and The Evolution of Containment Care, August, 2016
112. Science Rounds, U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID). The Evolution of Containment Care for Viral Hemorrhagic Fevers, June, 2017.
113. Lectures on Caring for Ebola Patients and The Spectrum of Containment Care to members of the Nigerian Ministry of Defense, Lagos, Nigeria, September 2017.
114. Lecture at Joint Research Symposium with UNMC, China, and UCLA. Four Lessons Learned from the 2014-16 Ebola Outbreak. Beijing, China, November 2017
115. Distinguishing Natural from Unnatural Events. Medicine Grand Rounds, Washington Hospital Center, Washington, DC, October 10, 2018.
116. Ebola Preparedness in Burundi: Challenges and Opportunities, University of Nebraska College of Public Health Rounds, Omaha, NE, Feb 27, 2019

117. Ebola Preparedness in Burundi: Challenges and Opportunities, Uniformed Services University Preventive Medicine Rounds, Bethesda, MD, April 10, 2019.
118. FDA/UTMB Pilot Course: Achieving Data Quality and Integrity in Clinical Trials Involving High Consequence Pathogens: “Overview of Medical Countermeasure Development. Bethesda, MD, April 10, 2019
119. “Supportive care for Ebola virus disease: where to go from here.” Medicine Research Rounds, Uniformed Services University. Bethesda, MD, May 10, 2019.

PEER-REVIEWED PUBLICATIONS

1. **Kortepeter MG**, Brown JD. A Review of 79 Patients with Malaria at a Military Hospital in Hawaii from 1979-1995. *Military Medicine* 1998;163(2): 84-89.
2. Kckee KT, **Kortepeter MG**, Ljaamo SK. Disease and non-battle injury among United States Soldiers deployed in Bosnia-Herzegovina during 1997: summary primary care statistics for Operations Joint Guard. *Military Medicine* 1998;163(11):733.
3. **Kortepeter MG**, Parker GW. Potential Biological Weapons Threats. *Emerging Infectious Diseases* 1999;5:42-46.
4. Cieslak TJ, Christopher GW, **Kortepeter MG**, Rowe JR, Pavlin JA, Culpepper RC, Eitzen EM. Immunization against potential biological warfare agents. *Clinical Infectious Diseases*. 2000;30(6):843-50.
5. Cieslak TJ, Rowe JR, **Kortepeter MG**, Madsen JM, Newmark J, Christopher GW, Culpepper RC, Eitzen EM. A field-expedient algorithmic approach to the clinical management of chemical and biological casualties. *Military Medicine* 2000;165(9):659-662.
6. **Kortepeter MG**, Cieslak TJ, Eitzen EM. Bioterrorism. *Journal of Environmental Health* 2001. 63(6):21-24.
7. **Kortepeter MG**, Krauss MR. Tuberculosis infection following humanitarian assistance, Guantanamo Bay 1995. *Military Medicine* 2001;166(2):116-120.
8. Marty AM, Conran RM, **Kortepeter MG**. Introduction to the concept of biological agents and toxins as weapons. In: *Laboratory Clinics of North America*, W.B. Saunders. February 2002.
9. Henretig FM, Cieslak TJ, **Kortepeter MG**, Fleisher GR. Medical Management of the Suspected Victim of Bioterrorism: An Algorithmic Approach to the Undifferentiated Patient. In: *Emergency Medicine Clinics of North America*, W.B. Saunders. May 2002.
10. Cieslak TJ, Pavlin JA, Noah DL, Dire DJ, Stanek SA, **Kortepeter MG**, Jarrett DG, Pastel RH, Darling RG, Jacocks JM, Hurst CG, Richards BA, Eitzen EM. Military medical education: nuclear, biological, and chemical medical defense training as a model for planners. *Military Medicine* 2004;169(5):337-41.
11. Rusnak J, Boudreau E, Bozue J, Petitt P, Ranadive M, **Kortepeter M**. An unusual inhalational exposure to Bacillus anthracis in a research laboratory. *Journal of Occup Envir Med* 2004;46(4):313-314.

12. Rusnak JM, **Kortepeter MG**, Ulrich R, Poli M, Boudreau E. Laboratory Exposures to Staphylococcal Enterotoxin B. *Emerg Infect Dis* 2004;10 (9):1544-49.
13. Rusnak JM, **Kortepeter MG**, Hawley RJ, Boudreau E, Aldis J, Pittman PR. Management Guidelines for Laboratory Exposures to Agents of Bioterrorism. *J Occup Envir Med* 2004;46:801-811.
14. Rusnak JM, **Kortepeter MG**, Aldis J, Boudreau E. Experience in the Medical Management of Potential Laboratory Exposures to Agents of Bioterrorism Based on Risk Assessment at the United States Army Medical Research Institute of Infectious Diseases (USAMRIID). *J Occup Envir Med* 2004;46:791-800.
15. Rusnak JM, **Kortepeter MG**, Hawley RJ, Anderson AO, Boudreau E, Eitzen E. Risk of occupationally acquired illnesses from biological threat agents in unvaccinated laboratory workers. *Biosecurity and Bioterrorism Journal* 2004;2(4):281-93.
16. **Kortepeter MG**, Lemmon JW, Moran KA. A 24 year-old soldier with traumatic brain injury and meningitis. *Clinical Infectious Diseases* 2005;41(11):1604-5, 1675-6.
17. Hepburn MJ, **Kortepeter MG**, Pittman PR, Boudreau EF, Mangiafico JA, Buck PA, Norris SL, Anderson EL. Neutralizing antibody response to booster vaccination with the 17d yellow fever vaccine. *Vaccine* 2006;24(15):2843-9.
18. Aldis JW, **Kortepeter MG**, Rusnak JM. Photo Quiz: Reaction after smallpox vaccination. *American Family Physician* 2006;74(1):145-7.
19. Dembek ZF, **Kortepeter MG**, Pavlin JA. Discernment between deliberate and natural infectious disease outbreaks. *Epidemiology and Infection* 2007;135:353-71. Epub 2006.
20. Smith PW, Anderson AO, Christopher GW, Cieslak TJ, Devreede GJ, Fosdick GA, Greiner CB, Hauser JM, Hinrichs SH, Huebner KD, Iwen PC, Jourdan DR, **Kortepeter MG**, Landon PV, Lenaghan PA, et al. Designing a Biocontainment Unit to Care for Patients with Serious Communicable Diseases: A Consensus Statement. *Biosecurity and Bioterrorism* 2006;4(4):351-65.
21. **Kortepeter MG**, Adams BL, Zollinger WD, Gasser RA, Jr. Fulminant supraglottitis from *Neisseria meningitidis*. *Emerg Infect Dis* 2007;13:502-4.
22. Hartzell JD, Kim AS, **Kortepeter MG**, Moran KA. *Acinetobacter* pneumonia: a review. *Medscape General Medicine* 2007;9:4.
23. **Kortepeter MG**, Martin JW, Rusnak JM, Cieslak TJ, Warfield KL, Anderson EL, Ranadive MV. Managing potential laboratory exposure to Ebola virus by using a patient biocontainment care unit. *Emerg Infect Dis* 2008;14:881-887.
24. Spring MD, Cummings JF, Ockenhouse CF, Dutta S, Reidler R, Angov E, Bergmann-Leitner E, Stewart VA, Bittner S, Juompan L, **Kortepeter MG**, Nielsen, R, Krzych U, Tierney E, Ware LA, Dowler M, Hermesen CC, et al. Phase 1/2a Study of the Malaria Vaccine Candidate Apical Membrane Antigen-1 (AMA-1) Administered in Adjuvant System AS01B or AS02A. *PLoS One* 2009;4:e5254.

25. Gulia J, Kim P, **Kortepeter MG**, Nguewou A, Waga M, Lai L. Multiple fractures of the symphysis pubis due to tuberculous osteomyelitis. *Southeast Asian J Trop Med Public Health* 2009;40:1279-83.
26. Hulten EA, Shah AA, Petersen KN, Gallagher CM, Vangeertruyden PH, **Kortepeter MG**. *Pseudomonas aeruginosa* preseptal cellulitis and focal necrosis in a patient with severe immunocompromise. *Infect Dis Clin Practice* 2009;17:346-8.
27. **Kortepeter MG**, Seaworth BJ, Tasker SA, Burgess TH, Coldren RL, Aronson NE. Healthcare Worker/Researcher Travelers to Developing World Clinical Settings: Disease Transmission Risk and Mitigation. *Clin Infect Dis* 2010;51:1298-305.
28. **Kortepeter MG**, Bausch DG, Bray M. Basic clinical and laboratory features of filoviral hemorrhagic fever. *J Infect Dis* 2011;204:S810-16.
29. **Kortepeter MG**, Lawler JV, Honko A, Bray M, Johnson JC, Purcell BK, Olinger GG, Rivard R, Hepburn MJ, Hensley, LE. Real-time monitoring of cardiovascular function in rhesus macaques infected with *Zaire ebolavirus*. *J Infect Dis* 2011;204:S1000-1010.
30. Warkentien T, Rodriguez C, Lloyd B, Wells J, Weintrob A, Dunne JR, Ganesan A, Li P, Bradley W, Gaskins LJ, Seillier-Moiseiwitsch F, Murray CK, Millar EV, Keenan B, Paolino K, Fleming M, Hospenthal DR, Wortmann GW, Landrum ML, **Kortepeter MG**, Tribble DR. Invasive mold infections following combat-related injury. *Clin Infect Dis* 2012;55:1441-9.
31. Agan BK, Macalino GE, Nsouli-Maktabi H, Wang X, Gaydos JC, Ganesan A, **Kortepeter MG**, Sanchez JL. Human papillomavirus seroprevalence among men entering military service and seroincidence after ten years of service. *MSMR* 2013;20:21-4.
32. Conger NG, Paolino KM, Osborn EC, Rusnak JM, Günther S, Pool J, Rollin PE, Allan PF, Schmidt-Chanasit J, Rieger T, **Kortepeter MG**. Health care response to CCHF in a US soldier and nosocomial transmission to health care providers, Germany, 2009. *Emerg Infect Dis* 2015;21:23-31.
33. Masel J, Deiss R, Wang X, Sanchez JL, Ganesan A, Macalino GE, **Kortepeter MG**, Agan BK. Seroprevalence and Seroincidence of Herpes Simplex Virus (2006-2010), Syphilis and Vaccine-Preventable Human Papilloma Virus Subtypes(2000-2010) among United States Military Personnel. *Sex Transm Dis* 2015;42:253-8.
34. Pittman PR, Garman PM, Kim SH, Schmader TJ, Nieding WJ, Pike JG, Knight R, Johnston SC, Huggins, **Kortepeter MG**, Korman L, Ranadive M, Quinn X, Meyers MS. *Vaccine* 2015; 26:2990-6.
35. **Kortepeter MG**, Smith PW, Hewlett A, Cieslak TJ. Caring for Ebola patients: a challenge in any care facility. *Ann Int Med* 2015;162:68-9.
36. Alves DA, Honko AN, **Kortepeter MG**, Sun M, Johnson JC, Lugo-Roman LA, Hensley LE. Necrotizing scleritis, conjunctivitis, and other pathologic findings in the eye and brain of an Ebola virus-infected Rhesus macaque (*Macaca mulatta*) with apparent recovery and delayed time of death. *J Infect Dis* 2016;213:57-60.
37. **Kortepeter MG**, Kwon EH, Hewlett A, Smith PW, Cieslak TJ. Containment care units for

managing patients with highly hazardous infectious diseases: a concept whose time has come. *J Infect Dis*. 2016;214:S137-41.

38. PREVAIL II Writing Group; **Multi-National PREVAIL II Study Team**. Davey RT, Jr, Dodd L, Proschan MA, Neaton J, Neuhaus NJ, Koopmeiners JS, Beigel J, Tierney J, Lane HC, Fauci AS, Massaquoi MBF, Sahr F, Malvy D. A randomized, controlled trial of ZMapp for Ebola virus infection *N Engl J Med* 2016;375:1448-56.

39. Reisler RB, Yu C, Donofrio MJ, Warren TK, Wells JB, Stuthman KS, Garza NL, Vantongerlen SA, Donnelly GC, Kane CD, **Kortepeter MG**, Bavari S, Cardile AP. Clinical laboratory values as early indicators of Ebola virus infection in nonhuman primates. *Emerg Infect Dis* 2017;23: 1316-24.

41. Cieslak TJ, **Kortepeter MG**, Wojtyk RJ, Jansen HJ, Reyes RA, Smith JO, and the NATO Biomedical Advisory Panel. Beyond the Dirty Dozen: A Matrix Methodology for Assessing Future Bioweapon Threats. *Military Medicine* Feb 8 2018.

42. Kwon EK, Reisler RB, Cardile AP, Cieslak TJ, Hewlett AL, Martins KA, Ritchie C, **Kortepeter MG**. Distinguishing respiratory features of Category A/B potential bioterrorism agents from community acquired pneumonia: world events create the need for a reminder. *Health Security* 2018;16:224-38.

43. Reisler RB, Zeng X, Schellhase CW, Bearss JJ, Warren TK, Trefry JC, Christopher GW, **Kortepeter MG**, Bavari S, Cardile AP. Ebola virus causes intestinal tract architectural disruption and bacterial invasion in non-human primates. *Viruses* 2018;10: Epub 20 Sept 2018.

44. Blair P, Kuhn J, Pecor D; **Kortepeter M**, Cardile, A, Polanco-Ramos A, Keshtkar-Jahromi, M. An emerging bio-threat: Crimean-Congo hemorrhagic fever virus in Southern and Western Asia. *Am J Trop Med* 2019;100:16-23.

45. Cieslak T, Evans L, **Kortepeter MG**, Grindle A, Aigbivbalu L, Boulter K, et al. Perspectives on the management of children in a biocontainment unit: Report of the NETEC Pediatric Workgroup. *Health Security* 2019;17: 11-17.

46. Kraft CS, **Kortepeter MG**, Gordon B, Sauer LM, Shenoy ES, Eiras DP, et al. The Special Pathogens Research Network: Enabling Research Readiness. *Health Secur* 2019;17:35-45.

47. Kuhn JH, et al. New filovirus disease classification and nomenclature. *Nature Reviews Microbio* 2019;17:261-3.

48. Lanteri C, Mende K, **Kortepeter M**. Emerging infectious diseases and antimicrobial resistance (EIDAR). *Mil Med* 2019 Apr 20.

49. Cieslak TJ, Herstein JJ, **Kortepeter MG**, Hewlett AL. A methodology for determining which diseases warrant care in a high-level containment care unit. *Viruses* 2019;11(773):1-9.

OTHER PEER-REVIEWED SCHOLARLY WORKS

1. **Kortepeter MG**. MRI: My Resonant Image [Letter]. *Annals of Internal Medicine* 1991;115(9):749.

2. **Kortepeter MG**. Dengue Fever [Case Report]. *Medical Surveillance Monthly Report*. November 1995.
3. **Kortepeter MG**. An Outbreak of Parainfluenza Type 1 Acute Respiratory Illnesses Among Basic Trainees, Fort Sill, OK, June 1998. *Medical Surveillance Monthly Report*. December 1998.
4. **Kortepeter MG**, McKee KT. Disease Prevention While Deployed [Letter]. *Military Medicine* 1999;164:viii.
5. Gaydos JC, Nang RN, Huck LG, **Kortepeter MG**, Ludwig SL, Lund ET, Pavlin JA, Coldren RL, McKee KT. Military Public Health Laboratories [Letter]. *Military Medicine* 1999;164(10).
6. **Kortepeter MG**, Pavlin JA, Gaydos JC, Rowe JR, Kelley PW, Ludwig G, McKee KT, Eitzen, EM. Surveillance at U.S. military installations for bioterrorist and emerging infectious disease threats [Letter]. *Military Medicine* 2000;165(8).
7. Pavlin JA, Kelley PW, Mostashari F, **Kortepeter MG**, Hynes NA, Chotani RA, Mikol YB, Ryan MAK, Neville JS, Gantz DT, Writer JV, Florance JE, Culpepper RC, Henretig FM. Innovative surveillance methods for monitoring dangerous pathogens. In: Institute of Medicine (US). *Biological Threats and Terrorism: Assessing the Science and Response Capabilities*. Washington: National Academy of Sciences; 2002. p. 185-196.
8. **Kortepeter MG**, Newmark J. Sulfur mustard: A liquid not a gas [Letter]. *Clin Infect Dis* 2012;54:885-6.
9. **Kortepeter MG**, Cieslak TJ. Supportive care for Ebola virus infection: challenges and opportunities. NATO Human Factors and Medicine 239: State of the Art in Research Against Biological Agents, Vilnius, Lithuania October 13-15, 2014.
10. Cieslak TJ, Smith J, **Kortepeter MG**. Beyond the dirty dozen: a matrix methodology for assessing future biowarfare threats. NATO Human Factors and Medicine 239: State of the Art in Research Against Biological Agents, Vilnius, Lithuania October 13-15, 2014.
11. Kellermann A, **Kortepeter M**. Does public health have a future? *Health Affairs Blog* 10 Dec 2014. Found at healthaffairs.org/blog/2014/12/10/does-public-health-have-a-future/
12. Christopher G, **Kortepeter MG**. Will we be ready for the next war? *Clin Infect Dis* 2015;61:1488-9. Also, Reply to Christopher and Kortepeter. *Clin Infect Dis* 2015;61:1489-90.
13. **Kortepeter MG**, Kwon EH, Christopher GW, Hewlett AL, Cieslak TJ. Interagency cooperation is the key to an effective pandemic response. [Letter] *Lancet Infect Dis* 2017;17:8.
14. **Kortepeter MG**, Cieslak TJ, Kwon EH, Smith PW, Kratochvil CJ, Hewlett AL. Comment on “Ebola virus infection among western healthcare workers unable to recall the transmission route.” [Letter] *Biomed Research Internat* epub Sept 2017.
15. **Kortepeter MG**, Cieslak TJ. Biocontainment Units: Moving to the Next Phase of Evolution. *Health Security* 2019;17:74-6.
16. Bhadelia N, Sauer L, Cieslak TJ, Davey RT, McLellan S, Uyeki TM, **Kortepeter MG**, on behalf of National Ebola Training and Ebola Center’s Special Pathogens Research Network

(SPRN)'s Medical Countermeasures Working Group. Evaluating Promising Investigational Medical Countermeasures: Recommendations in the Absence of Guidelines. *Health Security*. 2019;17:46-53.

17. McLellan S, **Kortepeter MG**, Bhadelia N, Shenoy ES, Sauer LM, Frank MG, Cieslak TJ. Ebola in the DRC one year later – boiling the frog? *Int J Infect Dis* 2019;85:212-13.

BOOKS/HANDBOOKS

1. **Kortepeter MG**, Christopher GC, Cieslak TJ, Culpepper R, Darling R, Pavlin J, Rowe J, McKee K, Eitzen E, Editors. *USAMRIID's Medical Management of Biological Casualties Handbook, 4th Edition*. Published by USAMRIID, Fort Detrick, Frederick, MD. February, 2001.

2. Darling RG, Woods JB, Dembek ZF, Carr BK, Cieslak TJ, Littrell AC, **Kortepeter MG**, Rebert NW, Stanek SA, Martin JW, Editors. *USAMRIID's Medical Management of Biological Casualties Handbook, 5th Edition*. Published by USAMRIID, Fort Detrick, Frederick, MD. August, 2004.

3. **Kortepeter M**. *Biohazard 9-1-1* (novel). Publishamerica, Inc. December 2004.

4. Woods JB, Darling RG, Dembek ZF, Carr BK, Cieslak TJ, Lawler JV, Littrell AC, **Kortepeter MG**, Rebert NW, Stanek SA, Martin JW, Editors. *USAMRIID's Medical Management of Biological Casualties Handbook, 6th Edition*. Published by USAMRIID, Fort Detrick, Frederick, MD. April, 2005.

5. Dembek ZF, Alves DA, Cieslak TJ, Culpepper RC, Ege CA, Fleming ER, Christopher GW, Glass PJ, Hepburn MJ, Honnold SP, Jesionowski MS, **Kortepeter MG**, Marchand CL, Melanson VR, McCall SA, Pavlin JA, Pittman PR, Poli MA, Ressler RA, Robinson TG, Scherer JM, Stiles BG, Suddendorf LR, Vietri NJ, Whitehouse CA, Editors. *USAMRIID's Medical Management of Biological Casualties Handbook, 7th Edition*. Published by USAMRIID, Fort Detrick, Frederick, MD. September 2011.

6. Cieslak TJ, **Kortepeter MG**, Kratochvil CJ, Lawler JV, eds. *The Nebraska Quarantine and Isolation Manual*. University of Nebraska Press. August 2019.

7. **Kortepeter MG**. *Inside the Hot Zone: a Soldier on the Front Lines of Biological Warfare*. Potomac Books (non-fiction/memoir). Release date January 2020.

BOOK CHAPTERS

1. **Kortepeter MG**, Rowe JR, Eitzen EM. Biological Weapon Agents. In *Disaster Medicine*, Hogan DE and Burstein JL, eds. Lippincott, Williams, and Wilkins. 2002.

2. **Kortepeter MG**, Cieslak TJ. Bioterrorism: Plague, Anthrax, and Smallpox. In *Prevention and Treatment of Infectious Diseases*, Gorbach SL, Baddour L, eds. Saunders. 2003.

3. Cieslak TJ, **Kortepeter MG**, Eitzen EM, Jr. Vaccines Against Agents of Bioterrorism. In *New Generation Vaccines, 3rd Edition*, Levine, et al, eds. Marcel Dekker, Inc. 2004.

4. **Kortepeter MG**. Plague. In: Diseases Transmitted Primarily by Arthropod Vectors in: *Textbook of Military Medicine: Military Preventive Medicine: Mobilization and Deployment*,

volume 2. Kelley PW, Ed. Borden Institute, Washington, DC. 2005.

5. Christopher GW, Eitzen EM, **Kortepeter MG**, Rowe JR. Biological Weapon Agents. In *Disaster Medicine*, 2nd edition, Hogan DE and Burstein JL, eds. Lippincott, Williams, and Wilkens. March 2007.

6. Dembek ZF, Pavlin JA, **Kortepeter MG**. Epidemiology of Bioterrorism in: *Textbook of Military Medicine: Medical Aspects of Biological Warfare*. Borden Institute, Washington, DC. 2007.

7. Dembek ZF, Pavlin JA, **Kortepeter MG**. Epidemiology of Bioterrorism in: *Textbook of Military Medicine: Medical Aspects of Biological Warfare*. Borden Institute, Washington, DC. Submitted January 2014.

8. **Kortepeter MG**, Cieslak TJ. Chapter 21: Bioterrorism in: *Cecil-Goldman Medicine*, 25th Edition. Goldman L, Schafer AI, eds. Elsevier Saunders, Philadelphia, PA. 2016.

9. Cieslak TJ, **Kortepeter MG**. A Brief History of Biocontainment in: *Ebola Virus Disease: Issues in Preparedness and Clinical Care*. Current Treatment Options in Infectious Diseases 2017;8:251-8.

10. Cieslak TJ, Herstein JJ, **Kortepeter MG**. Communicable Diseases and Emerging Pathogens: The Past, Present, and Future of High-Level Containment Care. In: *Preparing for Bioemergencies: A Guide for Healthcare Facilities*. Hewlett A, Murthy ARK, eds. Springer International Publishing July 6, 2018

11. **Kortepeter MG**, Kwon EH, Cieslak TJ. Designing Medical Facilities to Care for Patients with Highly Hazardous Communicable Diseases. In: *Preparing for Bioemergencies: A Guide for Healthcare Facilities*. Hewlett A, Murthy ARK, eds. Springer International Publishing July 6, 2018

12. **Kortepeter MG**, Cieslak TJ. Bioterrorism in: *Cecil-Goldman Medicine*, 26th Edition. Goldman L, Schafer AI, eds. Elsevier Saunders, Philadelphia, PA. Accepted for publication June, 2017.

13. **Kortepeter MG**. Viral hemorrhagic fevers in: *The Nebraska Quarantine and Isolation Manual*. University of Nebraska Press. August 2019.

14. Cieslak TJ, **Kortepeter MG**. Pathogens of concern in: *The Nebraska Quarantine and Isolation Manual*. University of Nebraska Press. August 2019.

15. Cieslak TJ, Horton JP, **Kortepeter MG**. Special populations in *The Nebraska Quarantine and Isolation Manual*. University of Nebraska Press. August 2019.

OTHER PUBLICATION CONTRIBUTIONS

1. Contributor to: USACHPPM Technical Guide 273 - Diagnosis and Treatment of Diseases of Tactical Importance to U.S. Central Command. 2002.
2. Reviewer, Workshop In Brief Report: Research Priorities to Inform Public Health and

ABSTRACTS (Presenter underlined)

1. **Kortepeter MG**, Brown JD. A Review of 65 Cases of Malaria at a Military Hospital *American College of Physicians National Meeting*, 1991 (poster); *American College of Physicians Hawaii Meeting*, 1990 (lecture).
2. **Kortepeter MG**, Krauss MR, Gunzenhauser JD. Risk Factors For Heavy Alcohol Use In Selected Active Duty Populations At Fort Lewis, WA *Prevention 1997 - Atlanta, GA* (poster); *Army Preventive Medicine Symposium*, 1996 (poster).
3. **Kortepeter MG**. Follow-up of Patients on Isoniazid Therapy in a Deployed Setting (Bosnia). *Army Preventive Medicine Symposium*, 1997 (poster).
4. **Kortepeter MG**, Ljaamo, SK. Medical Surveillance in Bosnia. *Army Preventive Medicine Symposium*, 1997 (lecture); also given at *Environmental and Operational Medicine Course*, 1998 (lecture) and University of California, Berkeley, School of Public Health (lecture).
5. **Kortepeter MG**, Krauss MR. PPD Conversions in an Army Unit, Guantanamo Bay, Cuba. *Prevention-1998* (American College of Preventive Medicine annual conference), San Francisco (lecture).
6. **Pavlin JA**, Chotani RA, Culpepper R, Florance F, Mostashari F, **Kortepeter MG**, et al. The need for improved surveillance systems for rapid detection of emerging infections - the results of an inter-agency workshop on health indicator surveillance. International Conference on Emerging Infectious Diseases 2000. Atlanta, GA.
7. **Rusnak JM**, Boudreau E, Petitt P, Ranadive M, **Kortepeter M**. Inhalational exposure to B. anthracis from dried medium on incubation flasks. Abstract, Air Force Society Meeting. March, 2003. Dayton, Ohio.
8. **Rusnak JM**, Smith L, Boudreau E, Petitt P, Cannon T, Norris S, Kanasa-athan N, **Kortepeter M**. Immunogenicity of botulinum pentavalent toxoid vaccine. Abstract. Air Force Society Meeting. March, 2003. Dayton, Ohio.
9. **Rusnak JM**, Boudreau E, Petitt P, Kanasa-athan N, **Kortepeter M**. Management of percutaneous potential exposure to agents considered as bioterrorist threats: review of USAMRIID's policy and experience from 1990 to 2002. SHEA Conference. April 2003. Arlington, VA.
10. **Rusnak JM**, Smith L, Boudreau E, Norris S, Cannon T, Clizbe D, **Kortepeter M**. Decreased immunogenicity of botulinum pentavalent toxoid to toxins B and E. Program and abstracts of the 6th Annual Conference on Vaccine Research; May 5-7, 2003; Arlington, Virginia. Abstract S10.
11. **Rusnak JM**, **Kortepeter M**. Ocular and percutaneous exposures to Staphylococcal Enterotoxins A and B manifested as conjunctivitis with periocular swelling and gastrointestinal symptoms or localized skin lesions. International Conference on Emerging Infectious Diseases. Feb 29-March 3, 2004. Atlanta, GA. Abstract 15.
12. **Rusnak JM**, **Kortepeter M**, Boudreau E. Impact of Vaccines on Occupationally Acquired

Illnesses in Researchers during the U.S. Biological Warfare Program (1944-1969). Abstract 209, ASM Biodefense Meeting, Baltimore, MD, March 2004.

13. Rusnak JM, **Kortepeter M**, E. Boudreau, J. Aldis, P. Pittman. Management Based on Risk Assessment of Occupational Laboratory Exposures to Bioterrorist Agents at USAMRIID from 1989 to 2002. Abstract 208, ASM Biodefense Meeting, Baltimore, MD, March 2004.

14. Rusnak JM, **Kortepeter M**. Ocular and Percutaneous Exposures to Staphylococcal Enterotoxins A and B Manifested as Conjunctivitis with Periocular Swelling and Gastrointestinal Symptoms or Localized Skin Lesions. Presented at the Air Force Society Meeting, San Antonio, TX. March 2004.

15. Rusnak JM, Petitt P, McKee K, **Kortepeter M**, Boudreau E, Pittman P. Initial assessment of the safety and immunogenicity of a new lot of *Francisella tularensis* vaccine, live, TSI-GSD-213, Lot 1R-85. Seventh annual Conference on Vaccine Research, May 2004. Arlington, VA.

16. Rusnak JM, **Kortepeter M**, E. Boudreau, J. Aldis, P. Pittman. Evaluation and Management of Occupational Laboratory Exposures to Bioterrorist Agents at USAMRIID from 1989 to 2002. Abstract, National Cancer Institute Eighth Annual Spring Research Festival, Fort Detrick, MD. May 2004.

17. Rusnak JM, **Kortepeter M**, E. Boudreau, J. Aldis, P. Pittman. Risk Assessment-based Management of Occupational Laboratory Exposures to Potential Bioterrorism Agents at USAMRIID (1989-2002). Abstract accepted for presentation the 7th Annual Force Health Protection Conference. Albuquerque, NM. August 2004.

18. Sherer CR, Price M, **Kortepeter MG**, et al. MDR Acinetobacter Meningitis Among US Military Personnel Injured in Iraq", Critical Care Medicine Suppl 2005; 33(12): A179-80 (abstract 262T). Poster presentation, SCCM's 35th Critical Care Congress, San Francisco, January 2006.

19. Shah A, Hulten E, **Kortepeter M**, Gallagher C, Petersen K. *Pseudomonas aeruginosa* Pre-septal Cellulitis with Possible Ecthyma Gangrenosum in a Severely Immunocompromised Patient. Poster presentation, American College of Physicians Army Chapter Meeting, November 2006.

20. **Kortepeter MG**, Honko A, Johnson JC, Olinger GG, Purcell BK, Rivard R, Hepburn MJ, Hensley LE, Lawler JV. Pathophysiologic assessment of Ebola virus infection with and without intravenous fluid treatment in a nonhuman primate model using a multi-sensor telemetry system. Lecture presentation, Abstract #5S-3. Filo 2010 – 5th International Symposium on Filoviruses, Tokyo, Japan, April 2010.

21. Miruka A, Kirui F, Sawe F, Kiptoo I, **Kortepeter M**, Weintrob A, Agan B, Sereti I, Shaffer D. Ophthalmological findings in patients with advanced HIV/AIDS prior to initiating antiretroviral therapy in rural Kericho, Kenya. International AIDS 2010.

22. **Kortepeter MG**, Honko A, Johnson JC, Olinger GG, Purcell BK, Rivard R, Hepburn MJ, Hensley LE, Lawler JV. Pathophysiologic assessment of Ebola virus infection with and without intravenous fluid treatment in a nonhuman primate model using a multi-sensor telemetry system.

Lecture presentation, Abstract # 381, American Society for Tropical Medicine and Hygiene annual meeting, Atlanta, GA, November 2010.

23. Maguire J, Lalani T, Sutter, Fairchok M, Rajnik M, Weintrob A, Landrum M, Echols S, McDonough E, Blair P, Defang G, Vancea A, Seillier-Moiseiwitsch F, Ridore M, Ottolini M, Burgess T, **Kortepeter M**, Millar E. Geographic Variability in the Etiology of Influenza-like Illness (ILI): The Acute Respiratory Infection Consortium, a Multi-state Longitudinal Study of ILI among Department of Defense (DoD) Beneficiaries. Lecture presentation, Abstract #622, International Conference on Emerging Infectious Diseases, Atlanta, GA, March 2012.

24. Fairchok M, Arnold J, Schofield C, Danaher P, Kronmann K, Rajnik M, McDonough E, Myers C, Mor D, Ridore M, **Kortepeter M**, Burgess T, Millar E. Use and Effectiveness of Neuraminidase Inhibitor Treatment of Influenza in Healthy Adults and Children in a Military Population. Abstract #40448. IDSA Annual Meeting, San Francisco, October 2013.

25. Arnold J, Fairchok M, Schofield C, Danaher P, Kronmann K, Rajnik M, McDonough E, Myers C, Sun P, Martin N, Kochel TD, Mor D, Ridore M, **Kortepeter M**, Burgess T, Millar E. Pro-inflammatory Cytokines Correlate with Hospitalization, as well as Gastrointestinal and Systemic Symptoms, in Influenza-like Illness. Abstract #40449. IDSA Annual Meeting, San Francisco, October 2013.

26. Powers JH III, Stringer S, Clifford S, Kim K, Arnold J, Schofield C, Danaher P, Kronmann K, Fairchok M, Rajnik M, McDonough E, Mor D, Guerrero ML, Ruiz-Palacios G, Hernández A, Rodriguez Zulueta P, Galindo-Fraga A, Kline Leidy N, Millar E, Burgess T, Ridore M, **Kortepeter M**. Development of the Patient-Reported Outcome (PRO) Instrument FLU-PRO to Standardize and Quantify Symptoms of Influenza. Abstract #42485. . IDSA Annual Meeting, San Francisco, October 2013.

27. **Kortepeter MG**, Cieslak TJ. Supportive care for Ebola virus infection: challenges and opportunities. NATO Human Factors and Medicine 239: State of the Art in Research Against Biological Agents, Vilnius, Lithuania October 13-15, 2014.

28. Cieslak TJ, Smith J, **Kortepeter MG**. Beyond the dirty dozen: a matrix methodology for assessing future biowarfare threats. NATO Human Factors and Medicine 239: State of the Art in Research Against Biological Agents, Vilnius, Lithuania October 13-15, 2014.

29. **Kortepeter MG**, Burgess TH, Davey RT, Dodd L, Proschan M, Schlett CD, Burris HH, Miller RS. Capturing safety and efficacy data of experimental therapies in an outbreak of a rare disease: The Ebola virus experience in the US. Military Health System Research Symposium, Fort Lauderdale, FL. August, 2015.

30. **Kortepeter MG**, Burgess TH, Davey RT, Dodd L, Proschan M, Schlett CD, Burris HH, Miller RS. Capturing safety and efficacy data of experimental therapies in an outbreak of a rare disease: The Ebola virus experience in the US. AMSUS annual convention, San Antonio, TX. December, 2015.

31. Davey RT, **Kortepeter MG**, Burgess T, Miller RS. PREVAIL II: A Randomized Controlled Trial of ZMapp™ in Acute Ebola Virus Infection. Oral plenary presentation, Military Health Research Symposium, Kissimmee, FL, Aug 2016.

32. D'Onofrio MJ, Arinatwa JW, Kwon E, Ssekabira U, Chambers M, Okware S, Kunihiro B,

Kortepeter M, Lokaman P, Makayotto L, Bernard O, Sarathy D. Analysis of infection prevention training on especially dangerous pathogens in East Africa. Poster presentation, Military Health Research Symposium, Kissimmee, FL, Aug 2016.

32. Kwon EH, **Kortepeter MG**. [presented by Dr. Anthony Cardile] The Evolution of Biocontainment Care: Identifying US Lessons-Learned from the West Africa Ebola Outbreak. NATO Future Forces Forum, Prague, Oct 2016.

33. Keasey SL, Rivard RG, **Kortepeter MG**, Ulrich RG. Proteome-level comparisons of antibody responses to anthrax and anthrax vaccines. Abstract MHSRS17-0102. Poster Presentation, Military Health Research Symposium, Kissimmee, FL, Aug 2017.

34. **Kortepeter MG**, Cieslak TJ, Kwon EH, Hewlett AL, Martins KM, Cardile AP, Kratochvil CJ, Kraft CS. The National Ebola Training and Education Center Special Pathogen Research Network (NETEC-SPRN) – An Emerging Infectious Disease Research Opportunity for the DoD. Abstract MHSRS-17-1106. Podium presentation, Military Health Research Symposium, Kissimmee, FL, Aug 27, 2017.

35. **Kortepeter MG**, Cieslak TJ, Kwon EH, Hewlett AL, Martins KM, Cardile AP, Kratochvil CJ, Kraft CS. The Special Pathogens Research Network. Presented at the 40th BioMedical Advisory Panel, Kansas City, MO, Oct 2, 2017.

36. **Kortepeter MG**, Cieslak TJ, Kwon EH, Hewlett AL, Martins KM, Cardile AP, Kratochvil CJ, Kraft CS. The National Ebola Training and Education Center-Special Pathogen Research Network (NETEC-SPRN) – An Emerging Infectious Disease Research Consortium to Improve Pandemic Preparedness. Abstract #LB-5087. Poster Presentation, American Society of Tropical Medicine and Hygiene Annual Meeting, Baltimore, MD, Nov 6, 2017.

37. Blair PW, Polanco-Ramos A, **Kortepeter M**, Kuhn JH, Pecor D, Apanaskevich D, Rivard R, Keshtkar-Jahromi M. Using the One Health Approach to Map Endemicity and Emergence of Crimean-Congo Hemorrhagic Fever in Europe and Western Asia. Abstract #. Poster Presentation, American Society of Tropical Medicine and Hygiene Annual Meeting, Baltimore, MD, Nov 8, 2017.

38. Cardile AP, Downey L, Madar CS, Blair PW, Reisler RB, Henry J, Wiseman PD, **Kortepeter MG**. Evaluation of an intensive care unit-like bundle for Ebola virus disease in a Rhesus macaque model. Abstract #. Poster Presentation, American Society of Tropical Medicine and Hygiene Annual Meeting, New Orleans, LA, October 31, 2018.

39. **Kortepeter MG**, Bhadelia N, Cieslak TJ, Dierberg K, Evans JD, Frank MG, Grein J, Kraft CS, Kratochvil CJ, McLellan S, Mehta AK, Sauer L, Davey RT Jr, Shenoy ES. Considering the Medical Countermeasure Options for an Emerging Infectious Disease Before the Patient Arrives – the Special Pathogen Research Network Initiative. Abstract #19-02136 Podium Presentation, Military Health System Research Symposium, Kissimmee, FL, August 19, 2019.

LANGUAGES

Intermediate French and German

TAB 11

Degree Conferrals

Hébert School of Medicine



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



September 21, 2020

MEMORANDUM FOR: PRESIDENT, USUHS

THROUGH: CHAIR, BOARD OF REGENTS

THROUGH: DEAN, SCHOOL OF MEDICINE

SUBJECT: Conferral of Graduate Degrees

The following Graduate Education students are scheduled to complete their respective programs on November 3, 2020 and have met all the academic requirements for graduation. The Associate Dean requests that the President, USUHS, award the following students their respective Master of Health Professions Education and Master of Science degrees.

Master of Health Professions Education candidates:

Brenton R. Franklin, Graduate Programs, Center for Health Professions Education
Nicole D. Hurst, Graduate Programs, Center for Health Professions Education
Arnyce R. Pock, Graduate Programs, Center for Health Professions Education
James F. Schwartz, Graduate Programs, Center for Health Professions Education

Master of Science candidate:

Nicholas R. Moorehead, Department of Medical and Clinical Psychology

Saibal Dey, PhD
Associate Dean for Graduate Education

Approved / Not Approved

Richard W. Thomas, MD, DDS, FACS
President, USUHS



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



September 21, 2020

MEMORANDUM FOR RICHARD W. THOMAS, MD, DDS, FACS, PRESIDENT, USUHS

Through: Chair, Board of Regents

SUBJECT: Certification of Graduate Student

The graduate student listed below is presented for certification to receive the Master of Health Professions Education degree effective upon your approval:

Brenton R. Franklin

MASTER OF HEALTH PROFESSIONS EDUCATION

Graduate Programs, Center for Health Professions Education

Attached is the candidate's Thesis Approval Form. Also attached are the certification of authorized use of Copyrighted materials, Thesis Title Page, Thesis Abstract, and Curriculum Vitae.

Louis N. Pangaro, MD, MACP
COL (ret), MC, USA
Interim Dean, School of Medicine

Attachments:
As stated

THESIS APPROVAL



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

DEPARTMENT OF MEDICINE
4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



July 15, 2020

APPROVAL SHEET

Title of Thesis: Application of a Mastery Learning, Error Management Training Curriculum to Improve Surgical Fasciotomy Performance

Name of Candidate: Brenton R. Franklin, MD

07/15/2020

THESIS AND ABSTRACT APPROVED:

CERVERO.RONALD
D.MICHAEL.1536
777721
Ronald M. Cervero, PhD
DEPARTMENT OF MEDICINE
Committee Chairperson

Digitally signed by
CERVERO.RONALD.MICHAEL.
1536777721
Date: 2020.07.15 14:19:29
-04'00'

DATE:

DURNING.STEVE
N.J.1041060359
Steven J. Durning, MD, PhD
DEPARTMENT OF MEDICINE
Thesis Advisor

Digitally signed by
DURNING.STEVEN.J.1041060359
Date: 2020.07.31 12:29:40 -04'00'

Anthony R. Artino, Jr.
DN: cn=Anthony R. Artino, Jr.,
o=GWU SMHS, ou=Health and
Human Function,
email=aartino@gwu.edu, c=US
Anthony R. Artino, PhD
HEALTH, HUMAN FUNCTION, &
REHABILITATION SCIENCE
GEORGE WASHINGTON UNIVERSITY
Thesis Advisor

Digitally signed by Anthony R.
Artino, Jr.
DN: cn=Anthony R. Artino, Jr.,
o=GWU SMHS, ou=Health and
Human Function,
email=aartino@gwu.edu, c=US
Date: 2020.07.31 13:03:38 -04'00'

E. Matthew
Ritter MD FACS
Matt Ritter, MD, MHPE
DEPARTMENT OF SURGERY
Thesis Advisor

Digitally signed by E. Matthew Ritter
MD FACS
DN: cn=E. Matthew Ritter MD FACS,
o=USU / Walter Reed Surgery,
ou=Vice Chair, Education,
email=eritter@usuhs.edu, c=US
Date: 2020.08.03 06:22:13 -05'00'

Learning to Care for Those in Harm's Way

COPYRIGHT STATEMENT

The author hereby certifies that the use of any copyrighted material in the thesis manuscript entitled: "Application of a Mastery Learning, Error Management Training Curriculum to Improve Surgical Fasciotomy Performance" is appropriately acknowledged and, beyond brief excerpts, is with the permission of the copyright owner.

Brenton R. Franklin, MD

Center for Health Professions Education

A handwritten signature in dark ink, appearing to read 'B.R. Franklin', is centered on the page.

Uniformed Services University

July 15, 2020

**Application of a Mastery Learning, Error Management Training Curriculum to Improve
Surgical Fasciotomy Performance**

By

Brenton R. Franklin, MD

Thesis submitted to the Faculty of the Health Professions Education Graduate Program,
Uniformed Services University of the Health Sciences, in partial fulfillment of the requirements
for the degree of Master's in Health Professions Education 2020

ABSTRACT

Application of a Mastery Learning, Error Management Training Curriculum to Improve Surgical Fasciotomy Performance

Brenton R. Franklin, MD, 2020

Thesis directed by Steven Durning, MD, PhD, Director, Graduate Programs in Health Professions Education, Department of Medicine; Anthony Artino, PhD, Deputy Director, Graduate Programs in Health Professions Education, Department of Medicine; and E. Matthew Ritter, MD, Vice Chair of Education, Department of Surgery

Purpose: The purpose of this thesis is to evaluate a new curricular approach for the procedural training of a lower extremity fasciotomy. The proposed curriculum evaluates simulation-based mastery learning using error management training without dedicated procedural practice.

Methods: A mastery learning based error management training curriculum for lower extremity fasciotomy training was developed and tested with novice surgical residents. The effects of the curriculum on overall fasciotomy performance were assessed before and after training.

Results: All surgical residents had minimal fasciotomy experience prior to training and pre-testing showed overall poor performance. After completing the curriculum, learners demonstrated significant improvement in fasciotomy performance evidenced by near perfect

fasciotomy performance. The overall effect was very large and the total time commitment was less than 3 hours.

Conclusions: Implementation of an error management fasciotomy curriculum based on deliberate practice and mastery learning theory results in significant improvement in fasciotomy technique without reliance on repeated procedure performance nor clinical fasciotomy exposure. This curriculum is an option for surgical trainees lacking fasciotomy training during residency.

Brenton R. Franklin, M.D.

brenton.r.franklin.mil@mail.mil or brenton.franklin@usuhs.edu or brentonfranklin@gmail.com

PROFESSIONAL AND EDUCATIONAL APPOINTMENTS

Aug2020-	Associate Program Director, General Surgery Residency, Walter Reed National Military Medical Center, Bethesda, MD
May2020-	Acting Chief, General Surgery Division, Walter Reed National Military Medical Center, Bethesda, MD
2020-	Program Director, ACS Accredited Surgical Simulation and Education Fellowship, USU Department of Surgery/NCR Medical Simulation Consortium, Bethesda MD
2019-	Assistant Chief, General Surgery Division, Walter Reed National Military Medical Center, Bethesda, MD
2018-	Faculty General Surgeon, Walter Reed National Military Medical Center, Bethesda, MD
2018-	Assistant Professor, Department of Surgery, Uniformed Services University of the Health Sciences and the Walter Reed National Military Medical Center, Bethesda, MD
2017-2018	Chief Resident of Education, General Surgery, Walter Reed National Military Medical Center, Bethesda, MD
2015-2018	Clinical Teaching Fellow, Department of Surgery, Uniformed Services University of the Health Sciences and the Walter Reed National Military Medical Center, Bethesda, MD
2015-	American College of Surgeons Advanced Trauma Life Support Instructor
2015-2016	The American College of Surgeons Consortium of Accredited Education Institutes Surgical Education/Simulation Fellow
2012-2018	General Surgery Resident, Walter Reed National Military Medical Center, Bethesda, MD

EDUCATION AND TRAINING

2018-	Masters of Health Professions Education candidate, Uniformed Services University of the Health Sciences, Bethesda, MD (projected graduation Summer, 2020)
2015-2016	Advanced Foundations of Health Professions Education, Uniformed Services University of the Health Sciences, Bethesda, MD
2012-2018	Internship and Residency, General Surgery, Walter Reed National Military Medical Center, Bethesda, MD
2008-2012	M.D. Cum Laude, Georgetown University School of Medicine, Washington DC
2004-2008	B.A. Magna Cum Laude, Major in Chemistry, College of the Holy Cross, Worcester, MA

SPECIALTY BOARDS

2018-	American Board of Surgery – General Surgery #063871
-------	---

MILITARY SERVICE

2018	Commissioned as Major, Medical Corps, United States Army
2012	Commissioned as Captain, Medical Corps, United States Army
2008	Commissioned as Second Lieutenant, Medical Service Corps, United States Army

PUBLICATIONS (PEER-REVIEWED MANUSCRIPTS, INVITED MANUSCRIPTS AND BOOK CHAPTERS)

- Franklin BR, Dyke C, Durning SJ, et al. "Piloting the FIRE: A Novel Error Management Training Simulation Curriculum for Fasciotomy Instruction," *J Surg Educ*. In press.
- Parker W, Franklin B, Jessie E, "Mesh Suture Repair for the Acute Management of an End-Stage Ventral Hernia," *Am Surg*, 2020;86(1):e26-e27.
- Laura AL, Bradley MJ, Rodriguez CJ, Franklin BR, "Hemorrhagic Cholecystitis: An Uncommon Disease Resulting in Hemorrhagic Shock," *Am Surg*, 2019;85(6):e279-e281.
- Kucera W, Nealeigh M, Franklin B, Bowyer M, Sweeney WB, Ritter EM, "Fasciotomy Improvement Through Recognition of Errors Course: A Focused Needs Assessment for Error Management Training for Lower Extremity Fasciotomy Performance," *J Surg Educ*, 2019;76(5):1303-1308.

5. Placek SB, Franklin BR, Ritter EM. "Simulation for Surgical Endoscopy," *The Comprehensive Textbook of Healthcare Simulation: Simulation for Surgery and Surgical Subspecialties Edition*, Springer, 2019.
6. Placek SB, Franklin BR, Ritter EM, "A Cross-Sectional Study of Emotional Intelligence in Military General Surgery Residents," *J Surg Educ*, 2019;76(3):664-673.
7. Ritter EM, Taylor ZA, Wolf KR, Franklin BR, Placek SB, Korndorffer JR Jr, Gardner AK, "Simulation-based mastery learning for endoscopy using the endoscopy training system: a strategy to improve endoscopic skills and prepare for the fundamentals of endoscopic surgery (FES) manual skills exam," *Surg Endosc*, 2018;32(1):413-420.
8. Franklin BR, Placek SB, Gardner AK, Korndorffer JR, Wagner MD, Pearl JP, Ritter EM, "Preparing for the American Board of Surgery Flexible Endoscopy Curriculum: Development of Multi-institutional Proficiency-Based Training Standards and Pilot Testing of a Simulation-Based Mastery Learning Curriculum for the Endoscopy Training System," *Am J Surg*, 2018;216(1):167-173.
9. Wolf KR, Taylor ZA, Placek SB, Tsai MW, Franklin BR, Ritter EM, "Do Resident Case Logs Meet ACGME Requirements? A Comparison Between Acute Care and Elective Cases," *J Surg Educ*, 2017;74(6):e45-e50.
10. Franklin BR, McNally MP, "Laparoscopy for Colon Cancer," *Clin Colon Rectal Surg*, 2017;30:99-103.
11. Franklin BR, Placek SB, Wagner MD, Haviland SM, O'Donnell MT, Ritter EM, "Cost Comparison of FLS Training Completed with Standard FLS Equipment versus Low Cost Equipment," *J Surg Educ*, 2017;74(3):459-465.
12. Placek SB, Franklin BR, Haviland SM, Wagner MD, O'Donnell MT, Cryer CT, Trinca KD, Silverman E, Ritter EM, "Outcomes of Fundamentals of Laparoscopic Surgery (FLS) mastery training standards applied to an ergonomically different, lower cost platform," *Surg Endosc*, 2017;31(6):2616-2622.
13. Shuck J, Patel KM, Franklin BR, Fan KL, Hannan L, Nahabedian MY, "Impact of Connective Tissue Disease on Oncologic Breast Surgery and Reconstruction," *Ann Plast Surg*, 2016;76(6):635-639.
14. Patel KM, Economides JM, Franklin BR, Sosin M, Attinger C, Ducic I, "Correlating patient-reported outcomes and ambulation success following microsurgical lower extremity reconstruction in comorbid patients," *Microsurgery*, 2014;34(1):1-4.
15. Sabino J, Franklin BR, Patel K, Bonawitz S, Valerio IL, "Revisiting the scapular flap: applications in extremity coverage for our U.S. combat casualties," *Plast Reconstr Surg*, 2013; 132(4):577e-585e.
16. Patel KM, Bhanot P, Franklin BR, Albino F, Nahabedian MY, "Use of Intraoperative Indocyanin-Green Angiography to Minimize Wound Healing Complications In Abdominal Wall Reconstruction," *J Plast Surg Hand Surg*, 2013; 47(6):476-80.
17. Bhanot P, Franklin BR, Patel KM, "Proceed™ Mesh for Laparoscopic Ventral Hernia Repair," *JSLS*, 2013;17(4):565-9.
18. Franklin BR, Patel KM, Nahabedian MY, Baldassari LE, Cohen EI, Bhanot P, "Predicting Abdominal Closure Following Component Separation for Complex Ventral Hernias: Maximizing the Utility of Pre-Operative Computed Tomography," *Ann Plast Surg*, 2013; 71(3):261-5.
19. Patel KM, Seruya M, Franklin BR, Gatti M, and Ducic I, "Factors Associated with Failed Hardware Salvage in High-Risk Patients following Microsurgical Lower Extremity Reconstruction," *Ann Plast Surg* 2012, 69(4):399-402.
20. Graham JA, Franklin BR, Jackson PG. "A Case of Video Assisted Retroperitoneal Debridement in a Patient with HELLP Syndrome." *Surg Laparosc Endosc Percutan Tech*, 2012; 22(3):e152-154.
21. Binkley S, Barone N, Underwood A, Milsted A, Franklin BR., Herrick R, Ziegler C, "The synthesis and toxicity of tripodal tricarbonyl rhenium complexes as radiopharmaceutical models." *J Inorg Biochem*, 2010;104(6): 632-638.
22. Herrick R, Franklin BR, Ziegler C, Çetin A, "Synthesis of 1,1'-ferrocene bis(carboxypyrazole) compounds and displacement of the pyrazole ligands." *Inorg Chem Comm*, 2009;12: 1209-1211.
23. Herrick R, Ziegler C, Jameson D, Aquina C, Çetin A, Franklin BR, Condon L, Barone N, Lopez J, "Rhenium(I) compounds bound by tripodal ligands of pyridine and N-methylimidazole." *Dalton Trans*, 2008;21(27): 3605-3609.
24. Franklin BR, Herrick R, Ziegler C, Çetin A, Barone N, Condon L, "Reactions of the $\text{Re}(\text{CO})_3(\text{H}_2\text{O})_3^+$ synthon with monodentate ligands under aqueous conditions." *Inorg Chem* 2008;47(13): 5902-5909.
25. Herrick R, Ziegler C, Çetin A, Franklin BR, "Structure Of The Triaquatricarbonylrhenium(I) Cation And Its Conjugate Base." *Eur J Inorg Chem* 2007;12: 1632-1634.



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



September 21, 2020

MEMORANDUM FOR RICHARD W. THOMAS, MD, DDS, FACS, PRESIDENT, USUHS

Through: Chair, Board of Regents

SUBJECT: Certification of Graduate Student

The graduate student listed below is presented for certification to receive the Master of Health Professions Education degree effective upon your approval:

Nicole D. Hurst

MASTER OF HEALTH PROFESSIONS EDUCATION

Graduate Programs, Center for Health Professions Education

Attached is the candidate's Thesis Approval Form. Also attached are the certification of authorized use of Copyrighted materials, Thesis Title Page, Thesis Abstract, and Curriculum Vitae.

Louis N. Pangaro, MD, MACP
COL (ret), MC, USA
Interim Dean, School of Medicine

Attachments:
As stated



UNIFORMED SERVICES UNIVERSITY, SCHOOL OF MEDICINE GRADUATE PROGRAMS
Graduate Education Office (A 1045), 4301 Jones Bridge Road, Bethesda, MD 20814



May 19, 2020

APPROVAL SHEET

Title of Dissertation: Train for the Game: What is the Learning Environment of Deployed Navy
Emergency Medicine Physicians?

Name of Candidate CDR Nicole D. Hurst, MD, MPH, Master of Science in Health Professions

Education

Date 19May2020

THESIS AND ABSTRACT APPROVED:

DATE:

Holly S Meyer

19May2020

Holly S Meyer

DEPARTMENT OF MEDICINE
CENTER FOR HEALTH PROFESSIONS EDUCATION
Committee Chairperson

CERVERO.RONALD.M

Digitally signed by
CERVERO.RONALD.MICHAEL.153

~~1536777721~~

672721
Date: 2020.05.20 18:29:54 -04'00'

Ronald Cervero

DEPARTMENT OF MEDICINE
CENTER FOR HEALTH PROFESSIONS EDUCATION
Thesis Advisor

DURNING.STEVEN.J.104

Digitally signed by
DURNING.STEVEN.J.1041060359
Date: 2020.05.21 07:13:21 -04'00'

~~1060359~~

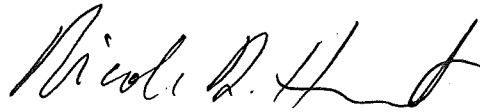
Steven J Durning

DEPARTMENT OF MEDICINE
CENTER FOR HEALTH PROFESSIONS EDUCATION
Thesis Advisor

The author hereby certifies that the use of any copyrighted material in the thesis manuscript entitled:

“Train for the Game: What is the Learning Environment of Deployed Navy Emergency Medicine Physicians?”

is appropriately acknowledged and, beyond brief excerpts, is with the permission of the copyright owner.

A handwritten signature in black ink, appearing to read "Nicole D. Hurst". The signature is fluid and cursive, with a large initial "N" and a stylized "H".

Nicole Hurst
Graduate Programs in Health Professions Education
Uniformed Services University
16 JUN 2020

Train for the Game: What is the Learning Environment of Deployed Navy Emergency
Medicine Physicians?

by

CDR Nicole D. Hurst, MD, MPH

Thesis submitted to the Faculty of the
Health Professions Education Graduate Program
Uniformed Services University of the Health Sciences
In partial fulfillment of the requirements for the degree of
Master of Health Professions Education 2020

ABSTRACT

Train for the Game: What is the Learning Environment of Deployed Navy Emergency Medicine Physicians?

Nicole Hurst, Master of Health Professions Education, 2020

Thesis directed by: Steven J Durning, MD, PhD, Director, Center for Health Professions
Education (CHPE) and Ronald Cervero, PhD, Deputy Director, CHPE

Problem When the training environment differs from the practice environment learners may encounter situations for which they are unprepared. Additionally, medicine is a practice characterized by ongoing learning, and unique qualities of the operational learning environment (LE) may affect learner needs. Using a conceptual framework specific to the LE we therefore asked the following research question: what is the difference in LE for Navy Emergency Medicine (EM) physicians who train in US hospitals but practice in an operational environment, and how do these differences shape their learning needs?

Methods We interviewed Navy EM physicians who recently deployed to explore their perceptions of the deployed LE, how it differed from the LE they trained in, and the perceived effect this difference had on their learning needs. We used the constant comparative method to gather and analyze data until thematic saturation was achieved.

Results We interviewed 12 physicians and identified six interconnected themes consistent with the LE framework in the literature: 1) Patient care is central to the learning experience 2) Professional isolation vs. connectedness 3) A sense of meaningful practice engages the learner in the LE 4) Physicians as educators shape the LE 5) Team trust impacts the LE 6) The larger military organization impacts the LE.

Conclusions Our themes span the conceptual framework put forth by Gruppen et al. and did not find themes outside this framework. These interconnected themes describe the difference in LE between the stateside and deployed setting and impact the learning needs of Navy Emergency Medicine physicians. These results inform strategies to position the deployed medical unit for success.

Abbreviated Curriculum Vitae

Nicole D. Hurst, MD
Commander, Medical Corps, United States Navy

I. EDUCATION

<u>Years</u>	<u>Program/Degree</u>	<u>Institution</u>
2011-2012	Emergency Ultrasound Fellowship	Denver Health Medical Center Denver, CO
2006-2009	Emergency Medicine Residency	Naval Medical Center San Diego San Diego, CA
2002-2003	Transitional Internship	Naval Medical Center San Diego San Diego, CA
1998-2002	Doctor of Medicine	Northwestern University Chicago, IL
1998-2002	Master of Public Health	Northwestern University Chicago, IL
1994-1998	Bachelor of Arts (Cum Laude)	Northwestern University Evanston, IL

II. CURRENT POSITION

<u>Year</u>	<u>Position</u>
July 2017	Attending Physician, Department of Emergency Medicine, Naval Hospital Camp Pendleton Oceanside, CA

III. ACADEMIC APPOINTMENTS

<u>Year</u>	<u>Position</u>	<u>Institution</u>
2017-present	Associate Professor	Uniformed Services University of the Health Sciences Department of Military and Emergency Medicine Bethesda, MD

IV. HONORS AND AWARDS

- 2018 Uniformed Services University Impact Award in recognition of outstanding contributions to the School of Medicine, awarded to the top 10% of faculty.
- 2014 Associate Master Clinician Award, Naval Medical Center San Diego
- 2008-2009 Academic Chief Resident, Emergency Department, NMCSD

V. PEER REVIEWED PUBLICATIONS

1. Yue I, Hurst N, Peterson JB, Kanegaye JT, Auten JD. Bilateral tibial tubercle avulsion fractures: A pediatric orthopedic injury at high risk for compartment syndrome. *Am J Emerg Med.* 2019 Aug;37(8):1603.e3-1603.e5 (PMID 31126670)
2. Goolsby C, Strauss-Riggs K, Rozenfeld M, Charlton N, Goralnick E, Peleg K, Levy MJ, Davis T, Hurst N. Equipping Public Spaces to Facilitate Rapid Point-of-Injury Hemorrhage Control after Mass Casualty. *Am J Public Health.* 2019 Feb;109(2):236-241 (PMID 30201524)

3. Post-Mortem Evaluation of Potentially Survivable Hemorrhagic Deaths in a Civilian Population. Goolsby C, Rouse E, Rojas L, Goralnick E, Levy M, Kirsch T, Eastman A, Kellermann A, Strauss-Riggs K, **Hurst N**. *J Am Coll Surg*. 2018 Nov;227(5):502-506 (PMID 30201524).
4. Auten JD, Naheedy JH, **Hurst ND**, Pennock AT, Hollenback KA, Kanegaye JT. Comparison of pediatric post-reduction fluoroscopic- and ultrasound forearm fracture images. *Am J Emerg Med*. 2018 Jul; <https://doi.org/10.1016/j.ajem.2018.07.050> (PMID 30093180)
5. Morgan B; Kao A; Trent S; **Hurst N**; Oliveira L; Austin A; Kendall J. Effect of Emergency Physician-Performed Point-of-Care Ultrasound and Radiology Department Performed Ultrasound Examinations on the Emergency Department Length of Stay Among Pregnant Women at Less Than 20 Weeks' Gestation. *J Ultrasound Med*. 2018 Mar;37(11):2497-2505 (PMID 29574878)
6. Kumetz EA, Cudnik R, **Hurst ND**, Rudinsky SL. Electronic Cigarette Explosion Injuries. *Am J Emerg Med*. 2016 Nov;34(11):2252.e1-2252.e3. (PMID 27133537)
7. Ross EM, Deaton T, **Hurst N**, Siefert J. Operational Point-of-Care Ultrasound Review: Low-Cost Simulators and Resources for Advanced Prehospital Providers. *J Spec Oper Med* 2015 Spring; 15(1):71-8. (PMID 25770801)
8. McKaigney CJ, Krantz MJ, LaRocque CL, **Hurst ND**, Buchanan MD, Kendall JL. E-point septal separation: a bedside tool for emergency physician assessment of left ventricular ejection fraction. *Am J Emerg Med*. 2014 Jun;32(6):493-7. (PMID: 24630604)
9. Olivera LG, **Hurst ND**, Magajna PW. Bedside Emergency Ultrasound in a Case of Acute Parotid Duct Sialolithiasis. *J Emerg Med*. 2014 Aug;47(2):e49-51. (PMID: 24877763)
10. Hawley LA, Auten JD, Matteucci MJ, Decker L, **Hurst N**, Beer W, Clark RF. Cardiac complications of adult methamphetamine exposures. *J Emerg Med*. 2013 Dec;45(6):821-7. (PMID: 24054881)
11. **Hurst N**, Macht M, Travis PJ, Pierce M, Brown WW 3rd. Post-menopausal female with abdominal pain. *J Emerg Med*. 2013 Dec;45(6):e221-2. (PMID 24012441)

VI. RECENT NATIONAL ABSTRACT PRESENTATIONS

1. Nicole **Hurst**, Daphne Morrison-Ponce. Targeted Needs Assessment of Emergency Medicine Physicians to Assess the Unique Learning Environment of the Combat Setting. Military Health System Research Symposium 2020 (online due to COVID)
2. Nicole **Hurst**, MD; Francesca Cimino, MD; Andrea Austin, MD; Jennifer Beck-Esmay, MD; Katrina Landa, MD; Maria Sturchler, MD. Women in Medicine Curriculum. Association of American Medical Colleges poster presentation, Phoenix, AZ, Nov 2019
3. Ivan Yue, David Ediger, Paige White, Craig Goolsby, Nicole **Hurst**. Translation of Military Lessons in Bystander Bleeding Control to the Civilian Sector: Review and Discussion of Stop the Bleed and Hartford Consensus Initiatives. Military Health System Research Symposium (MHSRS) poster presentation, Kissimmee, FL, Aug 2018
4. Rogers G, Landa K, **Hurst N**. A Messy Mass: Keeping the Differential Broad in Immunocompromise. American Academy of Emergency Medicine poster presentation. American Academy of Emergency Medicine Scientific Assembly, Orlando, FL, Mar 2017



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



September 21, 2020

MEMORANDUM FOR RICHARD W. THOMAS, MD, DDS, FACS, PRESIDENT, USUHS

Through: Chair, Board of Regents

SUBJECT: Certification of Graduate Student

The graduate student listed below is presented for certification to receive the Master of Health Professions Education degree effective upon your approval:

Arnyce R. Pock

MASTER OF HEALTH PROFESSIONS EDUCATION

Graduate Programs, Center for Health Professions Education

Attached is the candidate's Thesis Approval Form. Also attached are the certification of authorized use of Copyrighted materials, Thesis Title Page, Thesis Abstract, and Curriculum Vitae.

Louis N. Pangaro, MD, MACP
COL (ret), MC, USA
Interim Dean, School of Medicine

Attachments:
As stated



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

DEPARTMENT OF MEDICINE
4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



May 1, 2019

APPROVAL SHEET

Title of Dissertation: **"Post-Carnegie II Curricular Reform: A North American Survey of Emerging Trends and Challenges"**

Name of Candidate: **Dr. Arnyce Pock**, Master of Health Professions Education

Date: **May 2, 2019**

THESIS AND ABSTRACT APPROVED:

Dario Torre, MD, PhD, MPH
DEPARTMENT OF MEDICINE
Committee Chairperson

DATE:

2 May 19

Steven Durning, MD, PhD, FACP
DEPARTMENT OF MEDICINE
Thesis Advisor

2 May 19

William Gilliland, MD, MHPE
DEPARTMENT OF MEDICINE
Thesis Advisor

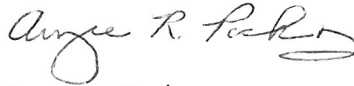
2 May 2019

Louis Pangaro, MD, MACP
DEPARTMENT OF MEDICINE
Thesis Advisor

2 May 2019

COPYRIGHT STATEMENT

The author hereby certifies that the use of any copyrighted materials in this thesis manuscript entitled "Post-Carnegie II Curricular Reform: A North American Survey of Emerging Trends and Challenges" is appropriately acknowledged, and beyond brief excerpts, is with the permission of the copyright owner.

A handwritten signature in cursive script, reading "Arnyce R. Pock". The signature is written in black ink and is positioned above the printed name and date.

Arnyce R. Pock
28 April 2019

*Post-Carnegie II Curricular Reform: A North American Survey of
Emerging Trends and Challenges*

by:

Arnyce R. Pock, MD

*Thesis submitted to the Faculty of the Health Professions Education Graduate Program,
Uniformed Services University of the Health Sciences
In partial fulfillment of the requirements for the degree of
Master in Health Professions Education (MHPE), 2019*

ABSTRACT

Introduction: In 2010, coincident with the 100th anniversary of Flexner’s sentinel report, the Carnegie Foundation published an updated review of North American medical education (Carnegie II) and challenged medical schools to initiate further educational reforms. As we approach the 10-year anniversary of this latest report, we sought to determine what type of curricular revisions have been emerging within the past decade and what types of challenges have North American schools encountered along the way?

Methods: In the Spring of 2018, an electronic survey was disseminated using a publicly available Association of American Medical Colleges database. Free text comments were grouped into themes using the constant-comparative technique. Shared experiences and viewpoints derived from educational leaders in five schools who were among the “early adopters” of a re-positioned Step 1 examination were collected, discussed, and distilled into a concise summary of commonly experienced challenges and strategies. In addition, a manual review of the 160 websites corresponding to Schools of Medicine that were either fully or provisionally accredited by the Liaison Committee on Medical Education (LCME) were reviewed to determine whether a unique curricular name had been assigned to their undergraduate curricula. Results were analyzed and aligned into a series of corresponding themes, using a constant-comparative technique.

Results: 60 unique survey responses were received, yielding a 36.14% response rate. The distribution of responses was proportionally representative of the distribution of public vs. private, old vs. new vs. established North American medical schools. Self-reported curricular changes aggregated into five main themes: Changes in curricular structure/organization, changes in curricular content, changes in

curricular delivery, changes in assessment, and changes involving increased use of technology/informatics.

One of the more ‘disruptive’ changes involved re-positioning the Step 1 examination, an approach that is being adopted by a small, but steadily increasing number of U.S. medical schools. As educational leaders from five institutions confirmed, re-positioning this exam frequently evokes one or more of six commonly experienced issues, most, if not all, can be successfully overcome with proactive planning and outreach. But whether seeking to re-position the timing of the Step 1 exam or implementing any other form of major curricular revision, overcoming faculty resistance, faculty development, securing adequate resourcing, change management, and competition for limited amounts of curricular time represent commonly experienced challenges.

Another relatively new, but emerging trend, involves the assignment of a unique curricular name to undergraduate programs. At present, 31.5% of the 143 U.S. allopathic schools, but only one (5.8%) of the 17 LCME accredited Canadian medical schools associate a unique curricular name with their educational programs, all of which could be aligned into one of eight over-arching themes.

Discussion: Changes in curricular organization, content, delivery, assessment and the use of technology all reflect reforms that are broad and deep. Empowering faculty to “let go” of familiar constructs/processes requires strong leadership, particularly when initiating particularly disruptive curricular changes, such as relocating the Step 1 examination or shifting to a competency-based curriculum. Major strides have been made, but the vision described by Carnegie II has yet to be achieved.

ABBREVIATED CURRICULUM VITAE

NAME/RANK: Dr. Arnyce R. Pock

CURRENT PROFESSIONAL ADDRESS: Associate Dean for Curriculum
4301 Jones Bridge Rd; Rm D 3013-C
Uniformed Services University of the Health Sciences
Bethesda, MD

EDUCATION:

Bachelor of Science, University of Illinois at Champaign-Urbana -- 1981
Medical Degree, Uniformed Services University of the Health Sciences -- 1985

GRADUATE MEDICAL EDUCATION:

Residency in Internal Medicine, USAF Medical Center, Keesler -- 1985-1988
Clinical Quality Management Fellowship, Office of the Air Force Surgeon General -- 1996-1998
Medical Acupuncture for Physicians, Helms Medical Institute, Berkley, CA -- 2004
Stanford Faculty Development Program, USUHS -- 2011
Healer's Art Faculty Development Training, Institute for the Study of Health & Illness, Commonweal, CA -- 2011
Liaison Committee on Medical Education (LCME) Faculty Fellowship -- 2012 -- 2013
Executive Leadership in Academic Medicine (ELAM) Fellowship -- 2016-2017

ACADEMIC APPOINTMENTS:

2013- Present: Associate Professor of Medicine, F. Edward Hebert School of Medicine, USUHS
2005 -- 2012: Assistant Professor of Medicine, F. Edward Hebert School of Medicine, USUHS
1997 -- 2000 Assistant Professor of Medicine, F. Edward Hebert School of Medicine, USUHS

CLINICAL APPOINTMENTS:

2005 -- Present: Affiliate Appointment, Andrews AFB
2011 -- Present: WRNMMC -- USU Family Health Clinic

LAST FOUR MILITARY ASSIGNMENTS:

2010 -- 2015 Director, Office of Curriculum Reform (OCR)
Uniformed Services University of the Health Sciences, Bethesda, MD

2005-- 2010 Director, USAF Medical Corps & Chief, Medical Personnel, Plans & Integration
Office of the Air Force Surgeon General, Arlington, VA

2003- 2005 Commander, Detachment 2, 311th Human Systems Wing, Bolling AFB, DC

2002- 2003 Director, International Health Specialist Program,
Office of the Air Force Surgeon General, Washington, DC

MEDICAL LICENSURE:

1986 - Present: Illinois #036-073907
1996 - Present: Idaho # M-6962

BOARD CERTIFICATION:

1988 -- Present: American Board of Internal Medicine

PROFESSIONAL SOCIETIES: (Selected)

Member, Academy of Medicine, Washington D.C
Member, American Medical Association (AMA)
Fellow, American College of Physicians (ACP)
Member, American Academy of Medical Acupuncture (AAMA)
Life Member, Association of Military Surgeons of the United States (AMSUS)

SELECTED NATIONAL PROFESSIONAL SERVICE:

2010 -- 2013 Co-Director/Planner/ Presenter—MHS Female Physician Leadership Symposium
 2006 -- 2007 Chair, Physicians Section & Physicians Awards Panel
 2002 -- 2005 ACP National Credentials Subcommittee
 2001-- 2006 ACP National Clinical Skills Subcommittee
 2000 -- 2004 Governor, Air Force Chapter, American College of Physicians

EDITORIAL SERVICE:

2011 – Present: Associate Editor, *Medical Acupuncture*

RECENT HONORS & AWARDS:

2015 Defense Superior Service Medal
 2010 American College of Physicians Laureate Award, U.S. Air Force Chapter
 2010 Legion of Merit
 2007 University of Illinois Alumni Achievement Award

MOST RECENT PUBLICATIONS: (Peer Reviewed)

SEIN, A; DANIEL, M; FLEMING, A; MORRISON, G; CHRISTNER, J; ESPOSITO, K; **POCK, A**; GROCHOWSKI, C; DALRYMPLE, J; SANTEN, S. “Identifying and Supporting Students to Prevent United States Medical Licensing Examination (USMLE) Step 1 Failures When Testing Following Clerkships” *Academic Medicine*. Accepted Dec 12, 2019. Published ahead of print March 3, 2020. DOI: 10.1097/ACM.0000000000003272

TORRE, D; DONG, T; SCHREIBER-GREGORY, D; DURNING, D; PANGARO, L; **POCK, A**; HEMMER, P.; “Exploring the Predictors of Post-Clerkship USMLE Step 1 Scores” *Teaching and Learning in Medicine*. June-July 2020; 32:3, 330-336. DOI: 10.1080/10401334.2020.1721293

POCK, A; DURNING, S; GILLILAND, W; PANGARO, L; “Post-Carnegie II Curricular Reform: A North American Survey of Emerging Trends & Challenges” *BMC Medical Education*. July 12, 2019. <https://rdcu.be/bJ8al>.

JURICH, D.; SANTEN, S.; PANIAGUA, M.; FLEMING, A.; HARNIK, V.; **POCK, A.**; SWAN-SEIN, A.; BARONE, M.; DANIEL, M.; “Effects of Moving the United States Medical Licensing Examination (USMLE) Step 1 After Core Clerkships on Step 2 Clinical Knowledge (CK) Performance” *Academic Medicine*. 2019;94; 775-780. DOI: 10.1097/ACM.0000000000002651

POCK, A.; DURNING, S.; GILLILAND, W.; OTTOLINI, M.; PANGARO, L.; “Curricular Monikers: What’s in a Name?” *MedEd Publish*. February 28, 2019. <https://doi.org/10.15694/mep.2019.000036.1>

POCK, A.; DANIEL, M.; SANTEN, S.; SWAN-SEIN, A.; FLEMING, A.; HARNIK, V.; “Challenges Associated with Moving the United States Medical Licensing Examination (USMLE) Step 1 to After the Core Clerkships and How to Approach Them.” *Academic Medicine*. June 2019; 94(6): 775-780.

JURICH, D.; DANIEL, M.; PANIAGUA, M.; FLEMING, A.; HARNIK, V.; **POCK, A.**; SWAN-SEIN, A.; BARONE, M.; SANTEN, S.; “Moving the United States Medical Licensing Examination (USMLE) Step 1 After Core Clerkships: An Outcomes Analysis.” *Academic Medicine*. March 2019; 94(3): 371-377. DOI: 10.1097/ACM.0000000000002458

LEE, W.; CLARK, L.; WORTMANN, K.; TAYLOR, L.; **POCK, A.**; “Interprofessional Healthcare Student Training in the Care of Sexual Assault Patients Utilizing Standardized Patient Methodology.” *Simulation in Healthcare*. November 2018; DOI: 10.1097/SIH.0000000000000331

DANIEL M.; **POCK A.**; HARNIK V.; “Why Not Wait? Additional Reasons to Consider Delaying USMLE Step 1.” *Academic Medicine*. August 2018, Vol 93, No.8. 1101-2.



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



September 21, 2020

MEMORANDUM FOR RICHARD W. THOMAS, MD, DDS, FACS, PRESIDENT, USUHS

Through: Chair, Board of Regents

SUBJECT: Certification of Graduate Student

The graduate student listed below is presented for certification to receive the Master of Health Professions Education degree effective upon your approval:

James F. Schwartz

MASTER OF HEALTH PROFESSIONS EDUCATION

Graduate Programs, Center for Health Professions Education

Attached is the candidate's Thesis Approval Form. Also attached are the certification of authorized use of Copyrighted materials, Thesis Title Page, Thesis Abstract, and Curriculum Vitae.

Louis N. Pangaro, MD, MACP
COL (ret), MC, USA
Interim Dean, School of Medicine

Attachments:
As stated



July 13, 2020

APPROVAL SHEET

Title of Dissertation: **Military medical students' intentions to pursue operational medicine: Survey design and initial validation**

Name of Candidate: **James Schwartz**, Master of Science in **Health Professions Education**

Date 05/21/2020

THESIS AND ABSTRACT APPROVED:

DATE:

05/21/2020

Abigail Konopasky, PhD
DEPARTMENT OF MEDICINE
Committee Chairperson

05/21/2020

Anthony R. Artino, PhD
DEPARTMENT OF MEDICINE
Thesis Co-Advisor

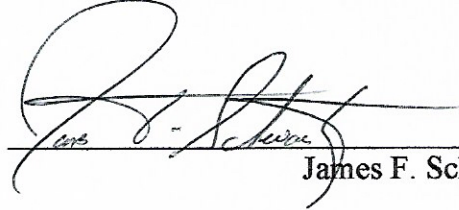
05/21/2020

Ting Dong, PhD
DEPARTMENT OF MEDICINE
Thesis Co-Advisor

COPYRIGHT STATEMENT

The author hereby certifies that the use of any copyrighted material in the thesis manuscript entitled: "Military medical students' intentions to pursue operational medicine: Survey design and initial validation" is appropriately acknowledged and, beyond brief excerpts, is with the permission of the copyright owner.

[Signature]



James F. Schwartz

DISCLAIMER

The views presented here are those of the author and are not to be construed as official or reflecting the views of the Uniformed Services University of the Health Sciences, the Department of Defense or the U.S. Government

Military medical students' intentions to pursue operational medicine:

Survey design and initial validation

By

James F. Schwartz

Thesis submitted to the Faculty of the
Health Professions Education Graduate Program
Uniformed Services University of the Health Sciences
In partial fulfillment of the requirements for the degree of
Master of Health Professions Education 2020

ABSTRACT

Military medical students' intentions to pursue operational medicine:

Survey design and initial validation

James F. Schwartz, Master of Health Professions Education, 2020

Thesis directed by: Dr. Anthony R. Artino, Jr., PhD, and Dr. Ting Dong, PhD, Center for Health Professions Education, Uniformed Services University.

Abstract

Purpose: Despite the longstanding practice of conducting a Summer Operational Experience (SOE) at the Uniformed Services University (USU), a formal evaluation of the program to assess its impact on motivating students to pursue an operational medicine assignment has not been conducted. Our primary objective was to develop and collect initial validity evidence for a survey instrument designed to assess various aspects of students' attitudes and behavioral intentions to pursue an operational medicine assignment as a result of their participation in the SOE.

Materials and Methods: Using the Theory of Planned Behavior (TPB) as a framework, we developed a survey that focused on four constructs: attitude, subjective norms, perceived behavioral control, and intention to pursue an operational medicine assignment. We followed a systematic, seven-step design process to develop the survey and collect initial validity evidence. Students in the Class of 2020 completed the 21-item survey prior to their operational experience. Exploratory factor analysis (EFA) and reliability analysis were performed to examine the

structure of the instrument and the internal consistency reliability of the subscale scores, respectively. In addition, bivariate correlation and multiple linear regression analyses were used to explore the relationships between the identified factors and students' self-reported intentions to pursue operational medicine.

Results: Among the 149 eligible students, 122 (response rate = 82%) completed the entire survey. Results from expert reviews and cognitive interviews suggested the survey items were clear and interpretable. Findings from the EFA and reliability analysis suggested four underlying factors with reasonable internal consistency reliability (Cronbach's $\alpha > .70$), and the regression analysis showed that three factors statistically significantly predicted students' intentions to pursue operational medicine: Attitude: Personal Growth ($b = .67, \beta = .42, p < .001$), Behavioral Control ($b = .20, \beta = .15, p < .05$), and Attitude: Career Progression ($b = .36, \beta = .30, p < .001$). The fourth factor, student's perception of the importance that others placed on an operational medicine assignment, was not a statistically significant predictor of intention.

Conclusions: Findings from this study suggest the developed survey yields scores that can reliably assess students' attitudes, subjective norms, and perceived behavioral control. Using this survey, course leaders have a tool for evaluating the success of the SOE and identifying potential areas for curricular improvement. More broadly, other educators can use the theoretical framework and instrument design process described here to examine students' attitudes, subjective norms, and perceived behavioral control in their own contexts.

James Frank Schwartz

james.schwartz@usuhs.edu

UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 Jones Bridge Road
Bethesda, MD 20814 United States

EDUCATION

CIVILIAN EDUCATION

Troy State University, Fort Rucker, AL. United States
Masters in Human Resources Management
Date Conferred: 03/1997

Wofford College, Spartanburg, SC. United States
Bachelors in Biology
Date Conferred: 05/1989

MILITARY EDUCATION

- U.S. Army Command and General Staff College, 2002
- U.S Army Combined Arms and Services Staff School, 1998
- U.S. Army Aviation Officer Advance Course, 1995
- U.S. Army Medical Department Officer Basic Course, 1989

TEACHING PHILOSOPHY

My goal as an educator is to develop curriculum, content, experiences and programs that develop those knowledge, skills and attitudes required for the military healthcare professional to successfully serve in their parent service. After 23 years of active military service I have witnessed how extremely important it is that the military healthcare professional is proficient in both clinical and operational military medicine. I strongly believe that I have a responsibility to continue my growth as an educator; to be an expert in my area of concentration and have a solid foundation of current and emerging adult learning theory and application; to investigate new teaching techniques; and to critically review the curriculum in an effort to validate and improve the learning experience. It is my aim that when a student completes the Department's curriculum they are prepared to successfully lead and practice military medicine beginning with their first operational assignment.

TEACHING EXPERIENCE & RESPONSIBILITIES

03/2009 - Present

OPERATIONAL MEDICINE EDUCATION DIRECTOR/ASSISTANT PROFESSOR

Medical Education Curriculum Development: Develop curriculum to include course development, lesson plans, course objectives, laboratories and evaluations focused on

components of operations and leadership within operational medicine. Research best practices and maintain visibility of current doctrinal and operational medicine practice for integration into curriculum. Responsible for ensuring the operational medicine curriculum in the Uniformed Services University of the Health Sciences School of Medicine is developed and implemented in accordance with the standards of the Liaison Committee on Medical Education and the Middle States Commission on Higher Education. Provides guidance, oversight, and management to junior faculty and enlisted instructors through a vigorous process of faculty preparation, oversight during instruction, assessment surveys, and after-action reviews of all courses in order to assure critical components of the operational medicine curriculum are in accordance with the policies of accreditation bodies. Ensures that operational medicine curriculum undergoes internal curricular review and is validated through review from the Office of the Associate Dean for Curriculum and external review from national accreditation authorities.

Medical Education Administration and Instruction: Assistant professor with 11 years' experience teaching operational military medicine curriculum. Provides instruction in multiple settings to include large/small groups, laboratories, simulations and the field environment. Coordinates for administrative, instructor, and subject matter expertise in support of curriculum. Participates in the faculty development program. Conducts onsite reviews of selected continuing operational medicine educational activities through a program of faculty peer review, regular and ongoing evaluation of student assessments, analysis of student performance on tests and field problems, and assessment of feedback from participating faculty in order to evaluate and improve current outcomes measures.

Medical Exercise Planning: Plans, organizes, supervises, directs and manages the USU medical field practicums and capstone simulated medical evaluation event for over 450 staff, students and faculty. Coordinates with multiple external organizations and military commands for practicum support to include personnel, equipment, and logistics. Manages all department field practicum planning time lines and actions. Reviews, prepares and submits all risk assessments and mitigation measures to senior leadership for approval. Develops and updates standing operations procedures (SOP) for field practicums.

PROFESSIONAL PUBLICATIONS

2015 – Present:

Goolsby, C., Chen, E. and Schwartz, J. (2015), "Patient-perspective video feedback for trauma training." *Med Educ*, 49: 1165-1166. doi:10.1111/medu.12871.

Schwartz, J, Muller, M, Wilmoski, C. (2019). "Joint Health Services Support: Operational Planning." *Fundamentals of Military Medicine*. Government Printing Office.

Schwartz, J, Muller, M, Wilmoski, C. (2019). "Introduction to Health Service Support." *Fundamentals of Military Medicine*. Government Printing Office.

Sloniker, D, Schwartz, J. (2019). "Medical Logistics." *Fundamentals of Military Medicine*. Government Printing Office.



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



September 21, 2020

MEMORANDUM FOR RICHARD W. THOMAS, MD, DDS, FACS, PRESIDENT, USUHS

Through: Chair, Board of Regents

SUBJECT: Certification of Graduate Student

The graduate student listed below is presented for certification to receive the Master of Science degree effective upon your approval:

Nicholas R. Moorehead

MASTER OF SCIENCE

Department of Medical and Clinical Psychology

Attached is the candidate's Thesis Approval Form. Also attached are the certification of authorized use of Copyrighted materials, Thesis Title Page, Thesis Abstract, and Curriculum Vitae.

Louis N. Pangaro, MD, MACP
COL (ret), MC, USA
Interim Dean, School of Medicine

Attachments:
As stated



UNIFORMED SERVICES UNIVERSITY, SCHOOL OF MEDICINE
GRADUATE PROGRAMS

Graduate Education Office (A 1045), 4301 Jones Bridge Road, Bethesda, MD 20814



July 19, 2020

APPROVAL SHEET

Title of Dissertation: **"The Protective Effects of Exercise on Depression: Analysis from the NHLBI CARDIA Study"**

Name of Candidate: **Nicholas R. Moorehead**, Master of Science
in Medical and Clinical Psychology,

Date **10MAR2020**

THESIS AND ABSTRACT APPROVED:

DATE:

20 July 2020

David Krantz, Ph.D.

DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

Thesis Advisor

Jeffrey Goodie, Ph.D.

DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

Committee Member

19 Jul 2020

07.20.20

Andrew Waters, Ph.D.

DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

Committee Member

COPYRIGHT STATEMENT

The author hereby certifies that the use of any copyrighted material in the or thesis manuscript entitled: The Protective Effects of Exercise on Depression: Analysis from the NHLBI CARDIA Study is appropriately acknowledged and, beyond brief excerpts, is with the permission of the copyright owner.

A handwritten signature in black ink, appearing to read 'Nicholas R. Moorehead', is written over a horizontal line.

Nicholas R. Moorehead

Department of Medical and Clinical Psychology

Uniformed Services University

July 21, 2020

The Protective Effects of Exercise on Depression: Analysis from the NHLBI CARDIA
Study

by

Nicholas R. Moorehead

Thesis submitted to the Faculty of the
Medical and Clinical Psychology Program
Uniformed Services University of the Health Sciences
In partial fulfillment of the requirements for the degree of
Masters of Science, 2020

ABSTRACT

Title of Thesis: The Protective Effects of Exercise on Depression: Analysis from the NHLBI CARDIA Study

Nicholas R. Moorehead, Master of Science, 2020

Thesis directed by: David S. Krantz, Ph.D., Professor of Medical and Clinical Psychology, Department of Medical and Clinical Psychology

Introduction: Previous studies have established that physical activity and exercise levels as well as depression change across the lifespan, and exercise has been used as a treatment intervention for depression. However, little is known about developmental changes in physical activity and depression from young adulthood to middle age.

Objectives: To determine the cross-sectional and longitudinal relation between usual physical activity levels and depression among young adults, and whether developmental increases in physical activity are associated with reduced levels of depression across a 25-year period.

Methods: This was a reanalysis of 25-year follow-up data from the NHLBI CARDIA study, a prospective cohort study of a diverse sample of young adults age 18-30 (N=5113; mean age= 24.76 SD = 3.628; 45% male) who were tested between 1985 and 2010. Participants reported intensity and frequency of usual physical activity (PA) at 5-year intervals using a validated CARDIA Physical Activity Questionnaire. Depression

was also measured at each time point using the Center for Epidemiological Studies Depression Scale (CES-D). Analyses examined associations between overall PA and CES-D at each time point, as well as relationships between PA and CES-D changes over a 25-year time period using multiple linear regression. Relationships between PA and CES-D changes over time were determined using multiple regression using the slope of PA over time and the slope of CES-D over time. All analyses controlled for age, sex, smoking habits, BMI, and baseline levels of depression and/or physical activity where appropriate.

Results: Consistent with previous studies, both PA and depression were relatively stable, but declined over time with an increasing negative correlation between PA and depression, which became increasingly statistically significant at each 5-year time point between Year 5 and Year 25 (r 's between 0.057 to -0.091, all p 's < 0.001). There was a small but significant relationship between the rate of change in PA over time and the rate of change in CES-D over time (partial r = -0.068, p < 0.001). For each 1 standard deviation increase in PA Slope, there was a predicted decrease of 0.07 standard deviations in CES-D Slope, when controlling for all other variables in the model.

Conclusion: Physical activity is consistently associated with reduced levels of depression at different points in the lifespan, and appears to have a modest protective effect against depression over a 25-year time period. These findings suggest not only that physical activity earlier in life predicts subsequent depression, but that both physical activity and depression demonstrate plasticity and variability across the lifespan and also are negatively related to one another.

NICHOLAS R. MOOREHEAD, B.S., 1st Lt, USAF

Dept. of Medical and Clinical Psychology
Uniformed Services University of the Health Sciences
4301 Jones Bridge Road
(702)-808-5782
Nicholas.Moorehead@usuhs.edu

EDUCATION

Enrolled Doctor of Philosophy in Clinical Psychology

May 2018 – Present

Uniformed Service University of the Health Sciences, Bethesda, MD
Faculty Advisor: Dr. David S. Krantz, Ph.D.

Bachelor of Science, Behavioral Sciences

August 2014- May 2018

Concentration in Psychology
United States Air Force Academy, Colorado Springs, CO
Senior Thesis Title: Augmenting Human Endurance Performance Using Real-Time Feedback
Faculty Mentors: Christopher D'Lauro, Ph.D., Brian R. Johnson, Ph.D., Chad L. Tossell, Ph.D.

CLINICAL EXPERIENCE

Neuropsychological Associates of Fairfax

June 2019-Present

Fairfax, Virginia

Population: All sociodemographic populations available. Ages 16-90+, all races/ethnicities, all socioeconomic classes and education levels. Referred for neuropsychological evaluation.

Clinical Supervisors: Mary Beth Quig, Ph.D., Cynthia Sullivan, Ph.D.

Hours: 230 (16-20/week)

- Assessments trained on/ given: WAIS-IV, ACS TOPF, BVMT-R, VSVT, CVLT-II, HVLIT-R, TMT A&B, CCPT-II/III, Boston Naming Test, Verbal Fluency Tests (FAS/Animals), WCST (CV3/4), PASAT, ILS, PAI, GDS, MMSE, Clock Drawing, WMS-IV, MAE Token Test, SDMT, WRAT-IV, BAI, BDI, CAARS, TOMM, Grooved Peg Board, MMPI-II, Rey Complex Figure Test and Recognition, RBANS
- Completed neuropsychological assessments, scoring, and integrated clinical reports incorporating personality and cognitive testing
- Participated in supervised clinical interviews and patient feedback sessions
- Received supervision for each session on test administration, interpretation, and case conceptualization
- Daily seminar/ didactics / group supervision / individual supervision

Graduate Training: Val G Hemming Simulation Center

Sept 2018 - Present

Uniformed Service University of the Health Sciences

Population: Standardized, simulated patients

Clinical Supervisors: Lanye Bennion, Ph.D., Marjan Holloway Ph.D., David Riggs, Ph.D.,

Hours: 55

- Assessments trained on/completed: RBANS, WAIS-IV, WMS-IV, SCID-II, WRAT-IV, WISC-V, Shipley-II, MCMI-III, MMPI-II-RF, Rorschach (R-PAS), PAI, Rotter Incomplete Sentence Blank
- Completed intake, triage, and/or assessment of standardized patients in a training environment
- Completed assessment notes and integrated clinical reports incorporating personality and cognitive testing
- Received supervision on each session for feedback on test administration and interviewing skills
- Performed Cognitive Behavioral Therapy for Suicide Prevention
- Performed Prolonged Exposure Therapy for PTSD

RESEARCH EXPERIENCE

Cardiovascular Behavioral Medicine Research Laboratory

August 2018-Present

Dept. of Medical and Clinical Psychology, Uniformed Services University of the Health Sciences

Position: Graduate Student/ Research Assistant

Supervisor: David S. Krantz, Ph.D.

- Assisting with Brain Heart Initiative to examine National Intrepid Center of Excellence (NICOE) data on TBI, PTSD, and cardiovascular outcomes
- Master's Thesis (in-progress): Longitudinal Protective Effects of Exercise on Depression. Using the NHLBI

dataset CARDIA, the project looks at the longitudinal protective effect of exercise and fitness on depression.

Signature Tracking for Optimized Nutrition and Training

Summer 2017

Air Force Research Labs, Wright Patterson AFB

Position: Research Assistant

Supervisor: Adam Strang, Ph.D.

- Tested augmentation of endurance performance using real-time physio-behavioral feedback. Consented participants, ran VO₂ max run tests, and managed data collection
- Established partner project to collect more data and run experiment simultaneously at the United States Air Force Academy

Department of Behavioral Sciences and Leadership, Concussion Lab

August 2016- May 2018

Position: Research Assistant

Supervisors: Christopher D'Lauro, Ph.D., Brian R. Johnson, Ph.D.

- Independent Study examining self-report of concussions, return to play times, and USAFA's return to learn program
- Briefed leadership of the United States Air Force Academy to implement USAFA's Return-to-Learn Program
- Worked under the Mind Matters NCAA-DoD Grant as a part of the CARE consortium managing data collection, examining reports and reporting attitudes of concussions, return to play times, and USAFA's return to learn program

PROFESSIONAL PRESENTATIONS

Moorehead, N.R., Getlinger, M., Strang, A., Tenhundfeld, N.L., Finomore, V.S., & Tossell, C.C. (2018). *Augmenting airmen endurance performance using real-time physio-behavioral feedback*. Poster Presented at the annual meeting of *Human Factors Engineering Technical Advisory Group (HFE TAG)*, Hurlburt Field, FL.

D'Lauro, C., Johnson, B. R., Foster, C., Jackson, J., Weirath, M., McGinty, G., **Moorehead, N.**, & Hill, T. (2018). *Costs and contexts in concussion disclosure*. Paper presentation at the 2nd Annual NCAA-DoD Grand Alliance Concussion Conference. West Point, NY.

“**Moorehead, N.R.**, Strang, A.J., Tenhundfeld, N.L., Finomore, V. & Tossell, C.C. (2018). *Augmenting performance using real-time feedback*. Poster presented at Rocky Mountain Psychological Association, Denver.”

“**Moorehead, N.R.** & Hill, T.E. (2018). *Accommodating academics for concussion recovery: Institutionalizing return-to-learn at a military academy*. Poster presented at Rocky Mountain Psychological Association, Denver.”

“D'Lauro, C., Johnson, B. R., Foster, C., Hjalber, M., **Moorehead, N.**, Ramsey, T., Campbell, D., McGinty, G., & Hill, T. (2017). *The costs of self-reporting a concussion at a military academy*. Poster presented at the Military Health System Research Symposium, Kissimmee, Florida.”

“Johnson, B. R., Hjalber, M., Ramsey, T. M., Peck, R. B., **Moorehead, N. R.**, Hill, T. E., Foster, C. A., & D'Lauro, C. J. (2017). *Concussion policy myths and their effect on self-report of concussion*. Poster presented at Society for Neuroscience, Washington D.C. “

“**Moorehead, N.R.**, Weaver, T.D., & Hill, T.E. (2017). *Current and future interventions to increase self-report of Concussions at the U.S. air force academy*. Poster presented Rocky Mountain Psychological Association, Salt Lake City.”

TAB 12

Degree Conferrals

*Daniel K. Inouye Graduate
School of Nursing*



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES
DANIEL K. INOUE
GRADUATE SCHOOL OF NURSING
4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



BOARD OF REGENTS

Candidate Presented for Certification for the Doctor of Philosophy

Major Theresa A. Bedford, USAF, NC



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

DANIEL K. INOUE GRADUATE SCHOOL OF NURSING
4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu/gsn



October 8, 2020

MEMORANDUM FOR PRESIDENT, USU

THROUGH: CHAIR, BOARD OF REGENTS

SUBJECT: Certification of Doctoral Student

The graduate student listed below is presented for certification to receive the Doctor of Philosophy effective upon your approval:

Major Theresa A. Bedford, USAF, NC

DOCTOR OF PHILOSOPHY

DOCTOR OF NURSING SCIENCE PROGRAM

Attached is the candidate's certification of successful completion of the final examination. Also attached are the dissertation approval form, certification of authorized use of copyrighted materials, dissertation abstract, dissertation title page and Curriculum Vitae.

Carol A. Romano, PhD, RN, FAAN
Dean and Professor

KNOWLEDGE, ATTITUDES, AND USE OF COMPLEMENTARY AND
ALTERNATIVE THERAPIES BY PROVIDERS CARING FOR SERVICE MEMBERS
WITH LOW BACK PAIN

by

Theresa A. Bedford

Dissertation submitted to the Faculty of the
Daniel K. Inouye Graduate School of Nursing Graduate Program
Uniformed Services University of the Health Sciences
In partial fulfillment of the requirements for the degree of
Doctor of Philosophy 2020

ABSTRACT

Knowledge, Attitudes, And Use of Complementary and Alternative Therapies by
Providers Caring for Service Members with Low Back Pain

Theresa A. Bedford, PhD, 2020

Thesis directed by: Lynette Hamlin, PhD, Professor and Associate Dean for Faculty
Affairs, Daniel K. Inouye Graduate School of Nursing

Background: Complementary and alternative medicine (CAM) offer service members with low back pain (LBP) a non-opioid alternative to manage pain. Availability of CAM is varied across MTFs, and the reason is unknown. The Diffusion of Innovation explains that knowledge, attitudes, and communication influence the rate of adoption (use).

Therefore, the purpose of the proposed study was to examine providers' knowledge, attitudes, and use of CAM therapies for managing LBP.

Aims: This study aimed to: (a) describe knowledge, attitudes, and use of CAM therapies by providers and student providers who care for service members with LBP, and (b) examine relationships between knowledge, attitudes, and use of CAM therapies.

Methods: This study utilized a quantitative, cross-sectional survey design. A convenience sample of 868 students from Uniformed Services University of the Health Sciences was recruited via email. Data were analyzed with descriptive and inferential statistics.

Results: A total of 122 participants completed the survey (response rate 14.1%). CAM knowledge scores were low for most therapies. Approximately 85% of participants were interested in learning more. Overall attitude scores were positive. Advanced Practice Registered Nurses ($p < 0.05$) and Graduate School of Nursing students ($p < 0.05$) had statistically more positive attitudes than physicians and students in the School of Medicine. Almost 70% of participants with clinical experience used at least one CAM therapy for the management of LBP. Both knowledge and attitudes were positively correlated with use of CAM.

Conclusions: Certain CAM therapies are being adopted at higher rates than others. Findings suggest that efforts to increase CAM adoption further should be focused on increasing education and supporting positive attitudes. Educators may use the results to collaborate with other educators and revise curriculum. Policy makers may use the results to write policy on screening patients about CAM use and increasing provider continuing education. Quantitative and qualitative research is needed to examine knowledge and attitudes over time, identify best practices to increase knowledge, and explore the perceived characteristics and social norms of CAM therapies within the military health system.

Keywords: Complementary and alternative medicine, pain, military, policy, healthcare providers

COPYRIGHT STATEMENT

The author hereby certifies that the use of any copyrighted material in the dissertation manuscript entitled: Knowledge, Attitudes, and Use of Complementary and Alternative Therapies by Providers Caring for Service Members with Low Back Pain is appropriately acknowledged and, beyond brief excerpts, is with the permission of the copyright owner.

Theresa Bedford

Theresa A. Bedford

November 3, 2020

DISCLAIMER

The views presented here are those of the author and are not to be construed as official or reflecting the views of the Uniformed Services University of the Health Sciences, the Department of Defense or the U.S. Government.

CURRICULUM VITAE
THERESA BEDFORD, MSN, FNP-BC
Maj, USAF, NC

Uniformed Services University of the Health Sciences
 Daniel K. Inouye Graduate School of Nursing
 4301 Jones Bridge Road
 678-360-4725
 Theresa.a.bedford.mil@mail.mil

EDUCATION

Year	Institution/Location/focus	Degree
2017-	Uniformed Services University of the Health Sciences Bethesda, Maryland, Nursing Science	PhD (in progress)
2014	University of South Alabama, Montgomery Executive Nursing Administration	Post-MSN
2008	University of South Carolina, Colombia, FNP	MSN
2002	University of Louisville, Kentucky	BSN

PROFESSIONAL EXPERIENCE – NON-ACADEMIC APPOINTMENTS

Year(s)	Role	Institution/Location
2017	PhD Nursing Science Student	United States Air Force, Uniformed Services University of the Health Sciences, Bethesda, MD
2015-2017	Family Nurse Practitioner	United States Air Force, Los Angeles Air Force Base, California
2010-2015	Family Nurse Practitioner	United States Air Force, Nellis Air Force Base, Nevada

LICENSURE

Year(s)	State	Type	Number
2009	KY	APRN	3036500
2003	KY	RN	398557

CERTIFICATION

Year(s)	Title	Organization
2009	Family Nurse Practitioner	American Nurses Credentialing Center

HONORS AND AWARDS

Year	Award	Organization
2014	Faculty's Special Achievement Award	University of South Alabama
2007	Nurse Practitioner Association Scholarship	Georgia NP Association
2002	President's Outstanding Student Award	University of Louisville
2002	Faculty Award for Professional Growth in Nursing	University of Louisville
2002	Sigma Theta Tau	University of Louisville

MILITARY HONORS AND AWARDS

Year(s)	Award
2017	Meritorious Service Medal
2017	Army Commendation Medal
2017	Army Achievement Medal
2015	Air Force Commendation Medal X2
2014	Navy Achievement Medal

PRESENTATIONS

Peer-Reviewed National/Regional/Local

Bedford, T. (May, 2019). Placebos: Implications for military pain related research and clinical practice. Podium poster presented at the annual meeting of Tri-Service Nursing Research Program, San Diego, CA.

Peer-Reviewed Posters National/Regional/Local

Bedford, T. (2018, November). Low back pain in the military: A concept analysis. Poster presentation at the 9th annual doctoral conference of the Washington Regional Nursing Research Consortium.

Invited Presentations National/Regional/Local

Bedford, T. (2020, February). Integrative Medicine: Knowledge and Attitudes Matter. Keynote speaker 2nd annual Uniformed Services University of the Health Sciences Wellness Day.

Bedford, T. (2014, June). Behavioral Health Optimization Program. Podium presentation at the 2014 American Association of Nurse Practitioner's National Conference.

EDITORIAL BOARD AND PEER REVIEWER ROLES

Year	Role	Journal
2017	Peer-reviewer	Journal of the American Association of Nurse Practitioners

GSN PhD Dissertation Defense Doctor of Philosophy in Nursing Science Degree

NAME: Theresa A. Bedford Date of Defense: 9/11/20

TITLE: Knowledge, Attitudes, and Use of Complementary and Alternative Therapies by Providers Caring for Service Members with Low Back Pain

*The Chair deems the Dissertation Defense as satisfactory to proceed to the Oral Defense

HAMLIN,LYNETTE
TTE.A.152565
5578
Digitally signed by
HAMLIN,LYNETTE.A.15
25655578
Date: 2020.09.11
09:02:32 -04'00'

The decision of the Dissertation Committee is:

PASS



- A. Both the dissertation and the oral defense are satisfactory:
B. Minor changes are recommended by the Dissertation Committee that is to be made to the satisfaction of the Dissertation Chairperson:

DEFER



- A. Major changes in the dissertation are required. Changes must be made to the satisfaction of the Dissertation Chairperson:
B. Major changes in the dissertation are required. Changes must be made to the satisfaction of the Dissertation Committee and at that time the oral defense will be rescheduled:

FAIL: ☐ Neither the oral performance nor the dissertation is adequate

SIGNATURES OF THE COMMITTEE:

Chairperson: Lynette Hamlin

Signature: HAMLIN,LYNETTE.A.1
525655578
Digitally signed by
HAMLIN,LYNETTE.A.1525655578
Date: 2020.09.11 09:25:41 -04'00'

Member: Robert Brutcher

Signature: BRUTCHER,ROBERT
EDWIN.1272566083
Digitally signed by
BRUTCHER,ROBERT EDWIN.1272566083
Date: 2020.09.11 09:29:52 -04'00'

Member: Luana Colloca

Signature: [Handwritten Signature]

Member: Danette Cruthirds

Signature: [Handwritten Signature]

Member: Patrick Deleon

Signature: [Handwritten Signature]

Member: Cathaleen Madsen

Signature: MADSEN,CATHALEEN.A
NNE KING.1060015178
Digitally signed by
MADSEN,CATHALEEN.A
NNE KING.1060015178
Date: 2020.09.11 09:25:41 -04'00'

Approval ☒ Disapproval ☐

Director, Doctoral Program/Date

ENGLER,MARY.BERN
ADETTE.1541917485
Digitally signed by
ENGLER,MARY.BERN ADETTE.1541917485
Date: 2020.09.11 11:26:31 -04'00'

Approval ☒ Disapproval ☐

Dean, Graduate School of Nursing/Date

Carol A. Romano 9/14/2020

Tab 13

Degree Conferrals

Postgraduate Dental College



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

POSTGRADUATE DENTAL COLLEGE
SOUTHERN REGION OFFICE
2787 WINFIELD SCOTT ROAD, SUITE 220
JBSA FORT SAM HOUSTON, TEXAS 78234-7510
<https://www.usuhs.edu/pdc>



6 October 2020

MEMORANDUM FOR: PRESIDENT, USUHS

THROUGH: BOARD OF REGENTS

SUBJECT: Certification of Postgraduate Dental Student

The Postgraduate Dental College student listed below completed all requirements for her program of instruction as of September 10, 2020. It is requested that the Executive Dean be authorized to award the Master of Science in Oral Biology degree. The 2020 Postgraduate Dental College student and her research project is listed below:

**Air Force Postgraduate Dental School
JBSA Lackland, TX**

PROSTHODONTICS

Major Jessamy J. Thornton, USAF, DC – Oxirane/Acrylate Interpenetrating Network Resins With Multifunctional Oxiranes and Difunctional Acrylates

If requested by the Board, copies of the research manuscript will be made.

Respectfully,

Thomas R. Schneid, DMD, MS
Executive Dean and Professor
Postgraduate Dental College

TAB 14

Faculty Appointments and Promotions
School of Medicine



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

OFFICE OF THE DEAN
4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



September 29, 2020

MEMORANDUM FOR BOARD OF REGENTS

SUBJECT: Faculty Appointments

The attached are recommendations made by the Committee of Appointments, Promotions and Tenure at a meeting on September 21st, 2020. In addition, the hiring search Committee of Appointments, Promotions and Tenure Equivalent recommends Tasha Wyatt, Ph.D., for a faculty appointment per the USU Instructions 1107. I respectfully recommend that you approve these recommendations and forward them to the President of the University for further action.

Sincerely,

Louis N. Pangaro, M.D., M.A.C.P.
Digitally signed by Louis N.
Pangaro, M.D., M.A.C.P.
Date: 2020.10.07 06:48:12
-04'00'

Louis N. Pangaro, MD, MACP
Professor and Interim Dean, School of Medicine

Attachments

PROPOSED FACULTY RECOMMENDATIONS

November 2nd , 2020

BOR LIST

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
<u>Primary Appointments</u> <u>(Billeted)</u>		
<i><u>MEDICINE</u></i>		
WYATT, Tasha PhD	Associate Professor Tenure-Track	Appointment/ USUHS
<i><u>PREVENTIVE MEDICINE</u></i> <i><u>AND BIOSTATISTICS</u></i>		
OLSEN, Cara DPH, MPH	Professor Non-Tenured	Promotion/ USUHS
<u>Primary Appointments</u> <u>(Non-Billeted)</u>		
<i><u>ANESTHESIOLOGY</u></i>		
HIGHLAND, Krista PhD	Research Associate Professor Non-Tenured	Promotion Bethesda, MD
<i><u>DERMATOLOGY</u></i>		
LOGEMANN, Nicholas LCDR, MC, USN	Associate Professor Non-Tenured	Promotion El Cajon, CA
<i><u>MEDICINE</u></i>		
ARUNDEL, Cherinne MD	Adjunct Associate Professor Non-Tenured	Promotion/ Washington, DC
BENNETT, Steven MD	Clinical Associate Professor Non-Tenured	Promotion/ Tacoma, WA
BENNETT, William MD	Clinical Associate Professor Non-Tenured	Promotion/ San Diego, CA
CROWELL, Trevor MD	Associate Professor Non-Tenured	Promotion/ Bethesda, MD

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
FLANAGAN, Michael MD	Clinical Associate Professor Non-Tenured	Promotion/ Falls Church, VA
KWOK, Ryan MAJ, MC, USA	Associate Professor Non-Tenured	Promotion/ Fort Belvoir, VA
LAVENDER, Jason PhD	Associate Professor Non-Tenured	Appointment/ Bethesda, MD
LEITCH, Walter LTC, MC, USA	Clinical Associate Professor Non-Tenured	Promotion/ Tacoma, WA
LIN, Andrew CDR, MC, USN	Associate Professor Non-Tenured	Promotion/ Portsmouth, VA
MATTIMORE, Thomas MD, MPH	Clinical Professor Non-Tenured	Appointment/ Bethesda, MD
MCMANAMON, Alyssa Col, USAF, MC	Adjunct Associate Professor Non-Tenured	Promotion/ WPAFB, OH
MODJARRAD, Kayvon MD	Associate Professor Non-Tenured	Promotion/ Silver Spring, MD
SAUNDERS, David COL, MC, USA	Adjunct Professor Non-Tenured	Promotion/ Frederick, MD
TRIPOLI, Louis RADM, MC, USN	Clinical Associate Professor Non-Tenured	Appointment/ Medical Center, HI
VISWANATHAN, Lavanya Maj, USAF, MC	Associate Professor Non-Tenured	Promotion/ Fairfield, CA
ZHANG, Ai-Hong PhD	Adjunct Associate Professor Non-Tenured	Promotion/ Bethesda, MD
<u>OBSTETRICS AND GYNECOLOGY</u>		
GREER, Joy CAPT, MC, USN	Associate Professor Non-Tenured	Promotion/ Portsmouth, VA
TORREALDAY, Saioa LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ Bethesda, MD

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
<u><i>PEDIATRICS</i></u>		
ALDERSON, Tracy CDR, MC, USN	Clinical Associate Professor Non-Tenured	Promotion/ Portsmouth, VA
CRISTALDI, Christina Lt Col, USAF, MC	Clinical Associate Professor Non-Tenured	Promotion/ Portsmouth, VA
DIE, Jane MD, MPH	Clinical Associate Professor Non-Tenured	Promotion/ Portsmouth, VA
HOGUE, Jacob LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ Tacoma, WA
KENDALL, Shellie CDR, MC, USN	Clinical Associate Professor Non-Tenured	Promotion/ Portsmouth, VA
NEWTON, Thomas Col, USAF, MC	Clinical Professor Non-Tenured	Promotion/ Bethesda, MD
PLUIM, Thomas CAPT, MC, USN	Clinical Associate Professor Non-Tenured	Promotion/ Suffolk, VA
ROBERTSON, Brian COL, MC, USA	Associate Professor Non-Tenured	Promotion/ Bethesda, MD
SCHULTEIS, Daniel Col, USAF, MC	Clinical Associate Professor Non-Tenured	Promotion/ Wright Patterson AFB, OH
STEIGELMAN, Daniel Lt Col, USAF, MC	Associate Professor Non-Tenured	Promotion/ San Antonio, TX
<u><i>PSYCHIATRY</i></u>		
BOURGEOIS, James MD	Adjunct Professor Non-Tenured	Promotion/ Temple, TX
FISHER, Joscelyn PhD	Research Associate Professor Non-Tenured	Promotion/ Bethesda, MD
<u><i>SURGERY</i></u>		
BELL, Randy CAPT, MC, USN	Professor Non-Tenured	Promotion/ Bethesda, MD
BENAVIDES, Jerome LTC, MC, USA	Clinical Associate Professor Non-Tenured	Promotion/ JBLW, WA
BENAVIDES, Linda LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ JBLM, WA

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
BRANSTETTER, Joanna LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ JBLM, WA
CALVANO, Christopher LTC, MC, USAR	Adjunct Associate Professor Non-Tenured	Appointment/ Dickinson, TX
CAUSEY, Marlin LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ Ft. Sam Houston, TX
DAVIDSON, Laurence MD	Adjunct Associate Professor Non-Tenured	Promotion/ Bethesda, MD
DAVIS, Jeremy MD	Associate Professor Non-Tenured	Promotion/ Bethesda, MD
GOLOCOVSKY, Mario MD	Distinguished Professor Non-Tenured	Appointment/ Washington, DC
HENRY, Lakeisha Col, USAF, MC	Clinical Associate Professor Non-Tenured	Promotion/ JBSA, TX
KIM, Esther LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ Fort Benning, GA
MACKENZIE, Colin MB, ChB	Adjunct Professor Non-Tenured	Appointment/ Baltimore, MD
MARTIN, Eric COL, MC, USA	Clinical Associate Professor Non-Tenured	Promotion/ Fort Gordon, GA
MASINI, Brendan LTC, MC, USA	Clinical Associate Professor Non-Tenured	Promotion/ JBLM, WA
OSIER, Charles CDR, MC, USN	Clinical Associate Professor Non-Tenured	Promotion/ Portsmouth, VA
SOLOMON, Nancy PhD	Professor Non-Tenured	Appointment/ Bethesda, MD
SONG, Daniel LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ Fort Carson, CO
WARD, William CDR, MC, USN	Associate Professor Non-Tenured	Promotion/ Portsmouth, VA
WORLTON, Tamera CDR, MC, USN	Associate Professor Non-Tenured	Promotion/ Bethesda, MD
YHEULON, Christopher MAJ, MC, USA	Associate Professor Non-Tenured	Promotion/ Tripler AMC, HI

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
YIM, Duke LTC, MC, USA	Clinical Associate Professor Non-Tenured	Promotion/ Fort Carson, CO
ZHANG, Wensheng MD, PhD	Research Associate Professor Non-Tenured	Appointment/ Ft. Sam Houston, TX

Secondary Appointments
(Billeted)

MILITARY AND
EMERGENCY MEDICINE

ELLENBOGEN, Jeffrey MD	Associate Professor Non-Tenured	Appointment/ USUHS
---------------------------	------------------------------------	-----------------------

NEUROSCIENCE

POLSTON, Eva PhD	Associate Professor Non-Tenured	Appointment/ USUHS
---------------------	------------------------------------	-----------------------

Secondary Appointments
(Non-Billeted)

MEDICINE

ROBERTSON, Brian COL, MC, USA	Associate Professor Non-Tenured	Promotion/ Bethesda, MD
HIGHLAND, Krista PhD	Research Associate Professor Non-Tenured	Promotion Bethesda, MD
STEIGELMAN, Daniel Lt Col, USAF, MC	Associate Professor Non-Tenured	Promotion/ San Antonio, TX

MILITARY AND
EMERGENCY MEDICINE

HIGHLAND, Krista PhD	Research Associate Professor Non-Tenured	Promotion Bethesda, MD
-------------------------	---	---------------------------

PEDIATRICS

DAVIDSON, Laurence MD	Adjunct Associate Professor Non-Tenured	Promotion/ Bethesda, MD
--------------------------	--	----------------------------

DEPARTMENT/NAME

PROPOSED RANK

ACTION/CURRENT
DUTY STATION

*PREVENTIVE MEDICINE
AND BIOSTATISTICS*

SAUNDERS, David
COL, MC, USA

Adjunct Professor
Non-Tenured

Promotion/
Frederick, MD

TAB 15

Staff Awards



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

DANIEL K. INOUE GRADUATE SCHOOL OF NURSING
4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



19 May 2020

MEMORANDUM FOR THE PRESIDENT, USU

THROUGH: USU BOARD OF REGENTS

SUBJECT: Exceptional Service Award for Mr. Michael Junio

The USU Names and Honors Committee supports the presentation of the Exceptional Service Award to Mr. Junio for his outstanding accomplishments and dedication to duty during the critical boiler and steam line failure at USU. Though the Office of the Vice President for Research submitted Mr. Junio for the Distinguished Service Award, it was the decision of the Names and Honors Committee that this be downgraded to the Exceptional Service Award.

This downgrade does not diminish his efforts and accomplishments during this critical time but is more in-line with awards historically presented at USU. The Distinguished Service Award is normally for persons who have distinguished themselves by exceptional devotion to duty and extremely significant contributions of a broad scope to USU.

Thank you for your consideration.

Carol A. Romano

Carol A. Romano PhD, RN, FAAN
Dean and Professor
Chair of Names and Honors Committee

TAB 16

University President

USU Board of Regents

President's Report

Nov 2, 2020

Richard W. Thomas, MD, DDS

President



USU Budget Update

- USU completed FY20 with a 99.99% obligation rate (no money left on the table)
- USU started FY21 under a Continuing Resolution (CR) that is set to expire on December 11th
- The CR is based on the FY20 Enacted amounts, thus, none of the reductions proposed in the President's Budget for FY21 have occurred yet (- \$14.M RDT&E and -\$10M O&M)

Office of the Vice President for Research

- Incoming VPR - Dr. Mark Kortepeter onboard 26 Oct 2020
- Return to Research
 - VPR research support activities sustained despite multiple challenges (steam outage, pandemic)
 - First USU PI Training for Federal Investigators hosted by VPR/VFA/CIO/OGC in October 2020
- USU designated as a Component with direct oversight of our human research protection program from the DoD Office of Human Research Protections/OUUSD R&E (IAW DoDI 3216.02, April 15,2020)
- FY20 Extramural Research Awards increased from \$247.8M in July 2020 to \$322.4M by Sept 2020
 - DHA COVID-19 Research Funding totaled \$38M for FY20

Dean, School of Medicine Search

- Search Committee led by Dean Romano, Graduate School of Nursing
- Vacancy posted at HigherEdJobs
 - <https://www.higheredjobs.com/details.cfm?JobCode=177327105>
- Advertisement posted in a dozen diverse recruitment sources
- Development of evaluation criteria and interview questions underway by search committee
- Goal is to have process complete early spring timeframe

MILCON Project Status

(no change since August meeting)

- Project Removed from FYDP during FY 21 Budget Development
 - \$450M lost from Med MILCON Program
- Design effort, and all forward progress, stopped unless restored to FYDP
 - Potential for scope change or partial redesign, if required
 - Cost reduction is possible
- Design is 65% complete
 - Environmental review completed
 - Virtually “shovel ready” for construction
 - ~\$28M Medical MILCON invested in design/development (sunk cost)



Opportunities Remain

- FY 21 NDAA not yet final
- Presidential Election
 - FY 22 decrements to be revisited in November
- Ongoing engagement with DoD leadership
- Exploring non-conventional funding strategies
- Possible rebranding/revisiting capabilities of project
- Developing alternate communication tools and avenues
- Support from Friends of Uniformed Services University, others

USU COVID-19 Research Highlights

- “EPICC-EID” (Epidemiology, Immunology and Clinical Characteristics of Emerging Infectious Diseases with Pandemic Potential)
- “ACTT” (Adaptive COVID-19 Treatment Trial) (NIAID-led)
- Javits Center deployed HCW study
- USNS COMFORT post-deployment assessment
- “RESPONSE” (Rapid Evaluation and Study of the Pandemic Outbreak Nationally by Sustaining and Leveraging Prolonged Field Care Research Efforts)
 - Blood Purification Trial; Pulmonary Ultrasound; Biomarkers
- USU Faculty Join International Effort to Define Genetic Determinants of Susceptibility to Severe COVID-19 Infection
 - <https://science.sciencemag.org/content/early/2020/09/23/science.abd4585>
 - <https://science.sciencemag.org/content/early/2020/09/29/science.abd4570>
- Supporting OWS vaccine Ph3 trial, OWS monoclonal antibody Ph3 trial
- COVID-19 Practice Management Guides v. 1, v. 2, v. 3, v. 4, v. 5
- USU Student, Faculty Invent COVID-19 Protective Isolation Chamber
- National Center for Disaster Medicine and Public Health (NCDMPH) NDMS Study

MHS AAR Update

Authorities: ASD(HA) Letter of Instruction

Structure

- Senior leader AARs
- Executive Committee
- Coordinating Committee

Process

- Input- Component Lessons Learned (CLLs)
- Output- Key Lessons Learned (KLLs)
- Committees review and revisions
- Final report

MHS AAR Update (*cont*)

Status

- More than 1500 CLLs
- 25 KLLs, with both observations and recommendations.
- Discussions of the first 14 KLLs by the MHS senior leadership
- “Rolling” draft of the final report

DoD IG Report – 28 Sep

- Conforms to corresponding KLLs
- USD(P&R) will answer through MHS AAR process

Final report: 31 December

USU After Action Review

Safety first and foremost

- Occupational Health, Preventive Medicine and the Emergency Operations Group have ensured a safe working environment for all USU components

Healthcare Education continued without interruption

- Clinical exposure far in front of national average, yet patient numbers and patient mix decreased
- IT platforms allowed continuation of education due to CIO updates in recent years
- ROM remains in place at many MTFs

Basic and Clinical Research continues

- 25% of animal protocols active at the beginning of summer and now up to 60%.
- Superb DLAR support

USU After Action Review

- AAR Committee continues to collect data from all USU components
- Remain in Phase 2 under current conditions
- Productivity continues
- Task Force on Working Parents completed its survey and data being evaluated

Concerns:

- Decreased hands-on opportunities (clinical and field experiences), but doing the best possible, and much better than other schools
- Distance learning, lack of onsite interaction is beginning to weigh on students, faculty and staff.

USU Significant Events

- USU Founders' Day was held on September 18, 2020, to mark the 48th anniversary of the university's founding in 1972.
 - Ambassador Deborah Birx, White House Coronavirus Response Coordinator and Associate Advisor, Office of the Vice President, was the guest speaker
 - President's Leadership Series event was held with an all USU alumni panel: MG Telita Crosland, RDML Cynthia Kuehner, ret. COL Russ Kotwal, and Dr. Thomas Geisbert.
- USU-WRNMMC Department of Medicine Grand Rounds
 - Dr. Anthony Fauci, director of the National Institute for Allergy and Infectious Diseases, gave an overview of the COVID-19 pandemic.
 - Duke University Men's Basketball Head Coach Mike Krzyzewski ("Coach K") presented "Teamwork During Challenging Times."
- USU medical school class of 2024 held its virtual White Coat ceremony on October 16, 2020. Dr. Robert Mabry, Principal Deputy Assistant Secretary of Defense for Health Affairs, served as the guest speaker.

USU Alumni Highlights

- Dr. Robert Mabry, USU class of 1999, was appointed as the new Principal Deputy Assistant Secretary of Defense for Health Affairs, effective September 21, 2020.
- Dr. Adrian Paskey, a USU alumnus, discovered one of two new rubella viruses while still a graduate student in USU's Emerging Infectious Diseases Ph.D. program. She was advised by Dr. Kimberly Bishop-Lilly, also a USU EID program graduate. The pair, along with their colleagues from Germany, University of Wisconsin, and other organizations, published their results in the journal Nature October 15, 2020.
- Dr. Paul Pasquina, USU class of 1991, was selected for the 2020 AMSUS Lifetime Achievement Award for his career-long contributions to military and federal medicine.

TAB 17

*Assistant Secretary of Defense
(Health Affairs) Report*

TAB 18

Hébert School of Medicine

TAB 19

Inouye Graduate School of Nursing

GSN Highlights

November 2020 BOR Meeting

Dr. Carol A. Romano, Dean, GSN



National Program Recognition

The GSN designated as a Center of Excellence[™] (2020-2024) by the National League for Nursing for excellence in “Enhance Student Learning and Professional Development.”

AACN 2020 award for Innovations in Professional Nursing in an Academic Health Center Award” for integration of operational readiness in APRN signature curriculum.

Education Highlights

High Level Disinfection and Sterilization:

- 5th Annual Courses switched to virtual format for MHS nurses
- Virtual Briefing to 160 DHA members

Operational Readiness Courses: 2 Dive Medicine & 1 Mountain Medicine (GSN, SOM students & Brigade staff)

One Faculty & student attended a 4-day immersive trauma training course in partnership with FBI Hostage Rescue Team

COVID 19: Classes on-line with exceptions; 70% faculty teleworking

Faculty Scholarship, Research & Manpower

- 16 publications/11 presentations & webinars this quarter
- \$7.1M Active Grant funding
- Diversity/Inclusion Committee enhanced, focused group assessments
- 7 faculty vacancies: 2 in the interviewing /selection process
- 5 administrative vacancies: 3 filled with contractors, 2 positions advertised

National Faculty Recognition

Joan Wasserman inducted as a Fellow, American Academy of Nursing

Patrick DeLeon- American Academy of Nursing Lifetime Legacy Award

Laura Taylor- NLN Outstanding Teaching /Leadership in Nursing Education Award

2020 AMSUS Awards:

MAJ Jose Rodriguez recipient of the Training and Education Award.

CDR Kennett Radford recipient of the Nursing Award.

TAB 20

Postgraduate Dental College

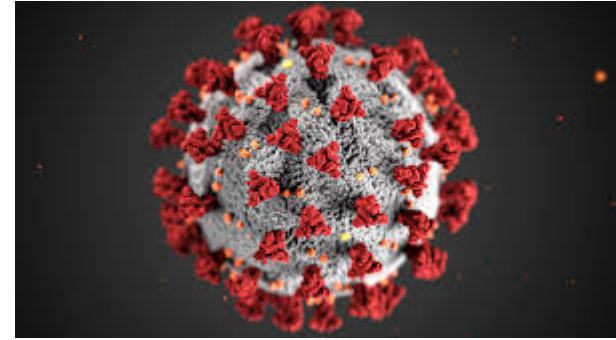
Postgraduate Dental College

November 2, 2020 Board of Regents Brief



Program Update

COVID-Related



Creative Commons PxHere.com

- Research: Audit conducted on progress ... all students on-track for timely completion
- Clinical activity: Operating at 70-100% of pre-pandemic levels, depending on location/specialty
- Didactics: Mostly face-to-face/minimal use of DL ... outside collaborations conducted virtually
- Accreditation flexibilities: Expected to remain for Class of 2021 ... possible modification upon review
- Class of 2021 Graduation: No delays anticipated at this time.

Education Outcomes

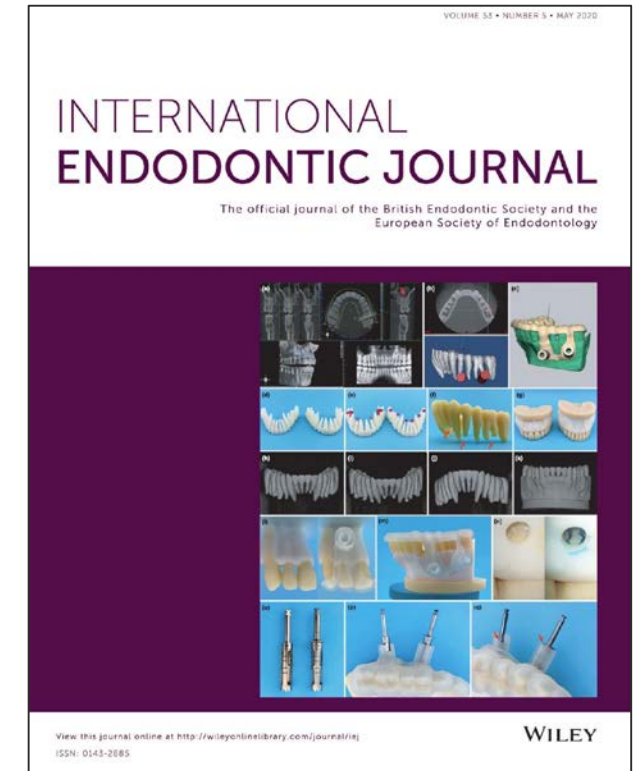
2010 – Present (Attachment 1)

- Accreditation: 100% achieved highest “approval without reporting requirements” (7 year cycle)
 - 2019-20: Three MS residencies postponed to 2021 ... 6 affiliated military PGY1 successful
- Graduation Rate: 93% with 99% on-time completion
 - 547 MS Degrees earned with only 4 delayed < 6 months to achieve clinical competency
- Written Board Pass-Rate: 94% (since 2015)

Annual Report FY 2020

Research (Attachment 5)

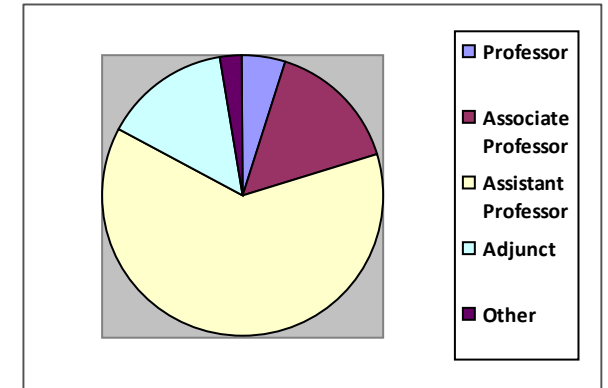
- 51 manuscripts/22 abstracts published/28 manuscripts submitted (↑36%)
 - Cover articles
 - Most cited for the year
- 128 national/regional/local presentations given
- 25 awards earned



Annual Report FY 2020

Leadership (Attachment 3)

- 42 PDC faculty serve as SG Consultants/Specialty Leaders
- 3 faculty concurrently served/serving in Command
- 5 PDC/NPDS faculty serve on Presidential Dental Support Team
- 17 faculty support USU/PDC Committees and 3 USU Faculty Senators
- 18 PDC faculty are members of the American College of Dentists
- 13 reviewers - 15 Journals/6 Ed. Review Boards/6 CODA Site Visitors/3 Board Examiners
- 10 earned USU Faculty Development Certificates/4 enrolled in USU/HPE Degree programs



PDC Faculty Breakdown

Annual Report FY 2020

IPE, COVID Assistance, Deployment, Service (Attachments 2 & 4)

- MFP 101 (Didactic and Field participation in 2019 ... planning for 2021)
- NPDS Oral Pathology Dept: MOA with the Office of the Armed Forces Medical Examiner (1st)
 - 62 missions to Port Mortuary, Dover AFB/117 postmortem dental exams/identifications
- COVID Assistance: Triage, screening, testing, pharmacy, public health nursing
- Faculty deployment & multiple humanitarian assistance/community service examples
- 2021 Federal Services Dental Educators Workshop: USU or Virtual (April 13-15)
- ADEA Deans Conference: Disruption: Implications for Oral Health Education (Nov 2020)

TAB 21

College of Allied Health Sciences

*Board of Regents
College of Allied Health Sciences Report
November 2, 2020*

Train for the mission, Educate for a Lifetime!



College of Allied Health Sciences

- CAHS enrollment = 1256 students in 17 of our 20 programs.

We currently have twelve programs with enrollments at the Medical Education Training Campus (METC), two at the Medical Education Center of Excellence (MEDCoE), one at the Joint Special Operations Medical Training Center (JSOMTC), and two programs under the Navy medical Forces support Command (NMFSC).

- Anticipating approximately 90 prospective graduates to be presented to the Board for approval in December. Nine different majors will awarded, five with Associate of Science Degrees in Health Sciences, one major with both Associate and Bachelors of Science in Health Sciences, and two with the Bachelor's degree
- Participation continues with Defense Health Agency 7 – Education (DHA J7), Medical Education Training Campus, Medical Center of Excellence, Navy Medical Forces Support Command, and 59th Medical Wing on one line of effort in response to the COVID 19 crisis
= Distributive Learning as a Service Component

College of Allied Health Sciences

Distributive Learning as a Service Component

The Medical Education Training Campus (METC) has developed a Distance Blended Learning (DBL) Program plan process for those delivering instruction via alternate methodologies.

Key components of the plan:

- Identify and centralize process and collaboratively seek approval from the Services, Accrediting Bodies, CAHS, and METC Academics as they transition to a Distance/Blended Learning (DBL) platform.

- Lay out extensive plans to identify the requirements for successful implementation

- Developed by Program Directors/Service Leads

- Final approval by METC Dean

Please note: The CAHS serves as the sponsoring institution for service requested programs. The education and training is conducted by the respective military services and while the CAHS does not dictate program activities, we are asked for and do have input into certain areas of program development.

College of Allied Health Sciences

- Future program developments as driven by Service requests for the following:
 - MEDCoE**
 - Ft. Sam Houston, TX
 - Licensed Practical Nurse
 - NMFSC**
 - Groton, CT
 - Submarine Independent Duty Corpsman (Alternative Training Pipeline)
 - Radiation Health Technician
 - Bethesda, MD
 - Dental Laboratory Technician, Maxillofacial
 - Portsmouth, VA
 - Hemodialysis Technician
 - Pensacola, FL
 - Aerospace Medical Technician
 - Flight Medic
 - Aerospace Physiology Technician
 - San Diego
 - Navy Drug and Alcohol Counselor

College of Allied Health Sciences

Board Action 1

In accordance with USU PPM 008-2019, Establishment of New Academic Programs, and as detailed in the supplemental information of this report, this new program is proposed for implementation at the next available iteration:

Advanced Tactical Provider Program

This is proposed as a Bachelor of Science in Health Sciences degree that is open to Army and Navy students. This program trains and qualifies selected Army noncommissioned officers as Special Forces Medical Sergeants and selected Sailors as Special Operations Independent Duty Corpsman. This is a 2+2 program that includes the Special Operations Paramedic Program, which is required for entry.

The program is accredited by the Committee on Accreditation of EMS Professionals, which is the functional body of the Committee on Accreditation of Allied Health Education Professionals. It is also accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International. Graduates are eligible to certify as National Registry of Emergency Medical Technicians – Paramedic.

This program is proposed at 42 Semester Credit Hours in the major. The FY 21 Projected Student load is 263 students (223 Army and 40 Navy).

It is requested that the BoR concur with the recommendation to implement the Advanced Tactical Provider program at the next available iteration, projected to be on November 9, 2020.

College of Allied Health Sciences

Board Action 2

In accordance with USU PPM 008-2019, Establishment of New Academic Programs, and as detailed in the supplemental information of this report, this new program is proposed for implementation at the next available iteration:

Opticianry Program

This is proposed as an Associate of Science in Health Sciences degree that is open to Army and Navy students, with Air Force attending only as Service requirements on a quota basis.

Specialized programmatic accreditation is with the Commission on Opticianry Accreditation for the Ophthalmic Laboratory Technician Certificate Program.

Graduates of this program are eligible to take the National Opticianry Competency Exam and qualify for the designation, Certified Optician. Graduates are also eligible to challenge the Paraoptometric Assistant Exam and qualify for the designation, Certified Paraoptometric Assistant.

This program is proposed at 29 Semester Credit Hours in the major. The FY 21 Projected Student load is 59 students (29 Army and 30 Navy).

It is requested that the BoR concur with the recommendation to implement the Army and Navy Opticianry program at the next available iteration, projected to be in January 4, 2021.

TAB 22

*Armed Forces Radiobiology
Research Institute*

Armed Forces Radiobiology Research Institute (AFRRI)

COL Mohammad Naeem, MD, FACR
Director AFRRI





AFRRI in the global geo-strategic context:

Historical perspective:

- By DoD Directive 5154.16, issued May 12, 1961, Secretary of Defense Robert McNamara established the Armed Forces Radiobiology Research Institute (AFRRI).
- The rationale for the establishment of AFRRI was based on two realities of the late 1950s and early 1960s;
 1. The threat scenario of numerous **Soviet infantry divisions overcoming the German Fulda Gap defenses** and overtaking Europe
 2. **The use of nuclear weapons, particularly enhanced weapons rich in neutron output**, to halt such a European invasion force.
- Today there appears to be a new “Fulda gap” in Poland i-e, “Suwalki gap”.
- **Movement of troops in/around a post-nuclear detonation zone in a battle field.**



AFRRI's combat support role in the contemporary multi-domain multi-operational battle space:

AFRRI reactor can simulate the radiation effects of a nuclear detonation

- 31 test and research reactors in the US, licensed by NRC
- 3 are government reactors- NIST, USGS and AFRRI
- AFRRI has a TRIGA Mark-F reactor with the ability to pulse and simulate the liberation of large amounts of energy in a very small period of time as generated by a nuclear weapon detonation. Nuclear explosions emit gamma rays, neutrons, beta particles and small proportion of alpha particles at different strengths depending on elapsed time after detonation; called initial nuclear radiation (within first minute) and residual nuclear radiation (after the first minute).



AFRRI's strengths and achievements:

Relevance of AFRRI to the tactical, operational and strategic warfighters:

- A nuclear weapon detonated at high altitude will have minimal Radiation, Blast or Thermal effects. However, there could be a **significant Electromagnetic Pulse (EMP) generated from the detonation** that could affect a large area of the United States. **This EMP could potentially have a detrimental effect to all electronic equipment.** The severity of the effect and level of EMP needed to cause the effects are unknown.
- **AFRRI - MMO is working with DTRA and STRATCOM to test these effects using a simulated EMP field at White Sands Missile Range (WSMR).**
- The goal is to determine at what level EMP will cause an effect and how the equipment will respond. Results include no effect, failure with self recovery, failure with operator assisted recovery, and finally complete failure. **It is strategically important for US Forces to test and recognize how EMP could effect operations, readiness, capabilities and medical response.**



AFRRI's strengths and achievements:

Ongoing projects and successes since the last BOR meeting

- Passed the NRC inspection with no major concerns and no violations.
- NRC has recommended closing the fission chamber loss incident.
- Successfully negotiated the safety conscious work environment timeline implementation with NRC.
- Rapidly hiring for the critically short manning/staffing positions.
- Director of Science, Reactor Operator, Chief of Staff, Physicians
- The effects of thermal flux from nuclear detonation on standard military uniforms.



Weaknesses (Resources required)

The next 12-15 months will make or break AFRRI for the next decade.

- Safety Conscious Work Environment implementation timeline. **Extremely critical to meet milestones by utilizing expert 3rd party outside consultation services.**
- License amendment and renewal application to start reactor operations (TRIGA Reactor Facility: Administrative shutdown continues, pending License Amendment Request approval by NRC for new digital control console)
- Morale of the staff- (New logo, new mission statement, new website, internal resources)
- Lack of branding- Ability to have our own website- Rebuilding of self image.
- **Gradual loss of image, prestige and historically unique identity- AFRRI's own website under AFRRI's control is desperately needed**
- Lack of resonance with the warfighter- We need soldiers, sailors, marines and airmen-officers and enlisted.



Opportunities/Actions/next steps:

Making AFRRI relevant to the 21st century warfighter, law enforcement, homeland security and emergency responders:

- EMP testing of medical equipment at White Sands Missile Range & Effects of thermal flux on military uniforms
- Combat operations at low levels of Radiation (COALL-R)- Urban operations at low levels of radiation- **AFRRI proposes a paradigm shift in its radiation research**
- SIPR room installation underway (to continue higher level collaborations w/partner agencies)
- Ongoing cooperation with NIAID, JPC-7, DTRA, SOCOM (emphasis on collective research with other DOD and civilian entities)
- Development of Clinical Practice Guidelines for Combined Injury (Trauma and radiation)
- Our group for the first time demonstrated that a novel radiation mitigator IL-18BP may mitigate/treat radiation-induced injury and increase survival with a wider therapeutic window from 24 hr and beyond after lethal doses of radiation exposure.



Challenges and threats:

NRC, Branding and Manpower:

- NRC-Short term threat- 12 to 15 months.
- Declining talent pool of scientific leaders who are subject matter experts in radiobiology.
- Lack of AFRRI's branding and image.
- Need to re-establish our unique identity.
- Need to establish our unique combat support role in line with the 21st century national security threats.
- Resonating with the tactical, operational and strategic warfighter. Need more warfighters at AFRRI.

We are diligently working on making AFRRI a safe, desirable, vibrant and superior DOD entity resonating with the tactical, operational and strategic warfighters in the contemporary multi-domain battle space ; fully ready to meet 21st century national security threats posed by near-peer adversaries and non-state actors.



TAB 23

University Brigade

Brigade Headquarters

COL Patrick A. Donahue, MS, USA



Brigade Headquarters

Brigade Headquarters Changes

CoVID-19 Support and Impacts

Professor of Military Science

Commander's Priorities

Brigade Policies/Initiatives

TAB 24

USU Campus South

Southern Region Update

- On 25 September JB-San Antonio, which includes Ft Sam, lowered the Health Protection Condition (HPCON) from Charlie to Bravo Plus, effectively opening the base to other than non-essential or mission critical employees
- PDC and CAHS Deans using their judgement on the number of staff coming into the office and how to stagger schedules to be able to provide a safe work environment
- Telework and virtual meetings are still the primary methods for accomplishing the day to day mission set
- The new Assistant VP for the Southern Region, Col (Retired) Bruce “Pete” Peters is on board and orienting to the missions and people in the Southern Region office

Tab 25

USU Campus West

Senior Vice President, Western Region

William Roberts, MD, MBA
RADM, MC, USN (Ret)



Board of Regents, Nov 2020

Current Issues	Future Issues
<ul style="list-style-type: none">• VPR Search completed• MSCHE Steering Group• USU-DHA E&T SSG• W. Region student rotations	<ul style="list-style-type: none">• G-Suite functionality• DHA J-6 collaboration (Zoom, etc.)
Partnerships	Issues for BOR Support
<ul style="list-style-type: none">• IPRAMM<ul style="list-style-type: none">○ USU TAGC – PNNL○ AMSUS Panel• USU – UCSF TES Research Effort	

Issue Amplification

- VPR search complete.
- Resumed E&T SSG (USU/DHA J-7) meetings to explore areas of commonality (Continuing Education, Accreditation, and Distributed Learning (Lessons Learned from COVID-19)).
- Chair, USU MSCHE Self-Study. Working groups being formed to manage the data call for the self-study.
- G Suite Functionality expanding at MTFs. Phased approach: USU students, then billeted faculty/staff, then non-billeted faculty.
- IPRAMM AMSUS panel approved. Virtual meeting in planning. Successful collaboration between USU TAGC and PNNL.
- Continue to monitor student rotations in Western region and support orientation at NMCSO.

TAB 26

*Office of the
University
of Registrar*

Office of the University Registrar (OUR)

Board of Regents Update

2 November 2020



OURBoard of Regents Update

Registrar Coordination Committee (RCC)

- Committee Updates
 - Individual school or college meetings held to identify unique program needs each month
 - Quarterly RCC group meetings to finalize draft policies prior to BOR meetings
 - All policies under review relate to 2013 MSCHE Accreditation recommendations and the student information system (SIS)
- Academic Year Policy
 - Not established in the SIS to date
 - Will be used to measure, assess, and report student data from the SIS
 - Start of the academic year will utilize the majority of academic program starts during the summer months
 - Addresses MSCHE Standard V – Educational Effectiveness, Criteria 3 – “consideration and use of assessment results for the improvement of educational effectiveness (improving key indicators of student success, such as retention, graduation, transfer, and placement rates)

- Course Scheduling Policy
 - Not established in the SIS to date
 - Will be used to ensure course quality control of curriculum and accurate student records
 - Provides a proactive approach to course planning that is needed in the online learning environment (LMS)
 - Addresses MSCHE Standard III – Design and Delivery of the Student Learning Experience
- University Catalog
 - Implementation planning started with the vendor with a tentative goal of Spring 2021
 - Addresses MSCHE recommendation from 2013 on Standard VI - Integrity

COVID-19 Impacts

- Minimal OUR disruption with increased telework training and accountability reports
- In person presence needed for limited technology with transcript production and receipt in Bethesda and San Antonio
- On campus presence in San Antonio is 25%
- On campus presence in Bethesda is 33%

Tab 27

*Office of the
University
Inspector General*

USU Office of Inspector General

Rebecca L. Jaworski, PhD, CIG, CFE

University Inspector General



Hotlines and Investigations FY20

Investigations, Inspections & Evaluations, Assistance, Teach & Train

- **53 Contacts to the USU OIG Hotline in FY20**
 - 7 remain open for determination
 - 1 complaint is an open investigation
- **Results**
 - Contacts: 23% DoDIG; 77% Internal
 - 61% resulted in assistance/referral
 - Time to Determination: 26 day average; range 1-160 days
- **Investigations**
 - Seven Investigations closed in FY20
 - 2 CY18 cases; 4 CY19 cases; 1 FY20 case
 - 50% of allegations were substantiated and submitted for appropriate administrative action

Inspections & Evaluations

Investigations, Inspections & Evaluations, Assistance, Teach & Train

- **Evaluation of Inventory Process Internal Controls**
 - Unit lacked sufficient internal controls; accountability for access; sufficient number of personnel to maintain operations
 - Unit provided response to and timeline for actions taken/needed to resolve deficiencies
- **USU Brigade Inspection**
 - Inspection of Brigade Operations initiated in 4QFY20
 - Completion planned for 2QFY21
- **Health & Safety Evaluation**
 - Result from Hotline Contact
 - Findings: Lack of clear and consistent health and safety communications
 - OIG provided summary of findings and recommendations to Unit management

Communication & Pandemic Response

Investigations, Inspections & Evaluations, Assistance, Teach & Train

- USU OIG successfully transitioned to a virtual platform for Hotlines, Investigations and Inspections & Evaluation by 30 March 2020
- USU OIG conducted over 20 “teach & train” sessions
- USU OIG Intranet site was built and published to provide greater ease of access to IG information for the USU Community

Tab 28
*Office of
Accreditation and
Organizational
Assessment*

MIDDLE STATES COMMISSION ON HIGHER EDUCATION

November 2020 ACCREDITATION
UPDATE



Accreditation Report: Summary Current Events

- The fifth “Other Instructional Site” located at Joint Special Operations Medical Training Center, Ft. Bragg, NC was added
- The University has launched its preparation efforts for the future Middle States Commission’s reaccreditation site visit in early 2023.
- The Nuclear Regulatory Commission (NRC) conducted a routine inspection of the AFRRI reactor license. No violations or issues of concern Identified.
- The US Department of Education’s (USDE) temporary waiver of the requirement for the advanced approval to use distance education as an alternate delivery method expires on December 31, 2020.

Department of Education and Middle States Commission COVID-19 Actions

- Early March 2020, both DOE & MSCHE relaxed rules for conducting on-site accreditation visits temporarily allowing virtual site visits
- Middle States Commission in early April 2020 requested institutions to report the following changes:
 - Temporary measures to move on site learning to online distance education
 - Modifications to the academic calendar for the current or future academic terms
- Institutions that decide to continue offering 50% or more of an educational program in distance education beyond December 31, 2020 must notify the Middle States

TAB 29

*Office of Information
and Educational
Technology*

Office of the CIO

Board of Regents Update

2 November 2020



OCIO Board of Regents Update

DoD IT Reform

- Cybersecurity Maturity Model Certification (CMMC)
 - 29 Sep 20 changes to DFAR
 - Implements DoD assessment methodology against NIST 800-53 and 800-171
 - Compliance for award eligibility; inclusion in all contracts NLT Fall 2025
- Academic Organizations
 - EDU Optimization Opportunities report issued by DoD CIO 3 Sep 20
 - From 2019 data call; 30 EDU orgs; 17 focus areas
 - Example recommendations:
 - Consolidate contracts, NOCs, SOCs, Service Desks, and infrastructure
 - Reduce Help Desk Tech FTEs
 - 1 or more EDU organizations envisioned as academic service provider; USU named
 - DAITC to consider recommendations
- CVR extended to Jun 21; DoD to deploy minimally viable product (MVP) office collaboration suite

COVID-19 Impacts

- Minimal IT disruption; infrastructure already in place; staff already remote trained
- 'How to' calls up; external support request up; <\$30K in costs
- On campus presence between 3-31%
- Some planned permanent telework post-COVID

Academic Services Access from MTFs

- Still a challenge for faculty and students
- Success DHA J6 test and future expansion for students and billeted faculty planned

General Updates

- Multi-month VoIP infrastructure upgrade complete
- USU .mil network upgraded from 45Mbps to 1Gbps; .edu at 100Gbps
- MDL fiber infrastructure upgraded from 1 to 10Gig
- Enhanced cloud bioinformatics research analytics platform deployed
- Max 3 year ATO for USU .edu network obtained from DISA

Supplement

Tab 30

President

Supplement

Tab 31

ASD HA



THE ASSISTANT SECRETARY OF DEFENSE

1200 DEFENSE PENTAGON
WASHINGTON, DC 20301-1200

OCT 09 2020

HEALTH AFFAIRS

MEMORANDUM FOR UNIFORMED SERVICES UNIVERSITY OF HEALTH SCIENCES BOARD OF REGENTS

SUBJECT: Military Health System Update

Over the past few months, our Military and the Nation have continued to respond and meet the unique challenges presented during the COVID-19 pandemic. The Military Health System (MHS) has been central to this effort. Key MHS initiatives in support of the COVID-19 response include:

Vaccines, Therapeutics, and Testing: Department of Defense (DoD) continues its work with Operation Warp Speed to develop a COVID 19 vaccine. DoD also is developing vaccine prioritization and distribution plans to protect our Warfighters, their families, and our beneficiaries. The COVID-19 Task Force Diagnostics and Testing Team continues to support emerging testing solutions, manage testing supply across the services and the interagency, and execute an integrated testing strategy to protect our Service members in operational setting and training. We are leveraging seroprevalence to identify incidence across the force, conducting pooled testing to support large unit exercises across the globe, and evaluating the plethora of antigen testing products to support force health. The Department continues to conduct robust testing across the globe. As of October 05, 2020, 146 DoD labs have performed over 1.2 million COVID-19 clinical diagnostic tests.

COVID Registry: In a joint collaborative effort, the University and Defense Health Agency (DHA) have leveraged the joint trauma registry to establish a COVID-19 Registry as a centralized data collection repository for COVID-19 positives. To date, there are over 54,000 COVID positive patients in the registry. The registry has proven effective to quickly assess disease trends or specific outcomes across this population, identify potential convalescent plasma donors, and will eventually track vaccine recipients vice disease incidence.

Covid-19 Convalescent Plasma: At the onset of the pandemic, the DoD developed a convalescent plasma (CCP) collection strategy to ensure we were able to independently support advanced COVID-19 illness within the force. We were charged by the Secretary of Defense to collect 10,000 units by September 30, 2020. Thanks to our dedicated Service members, their families, and our beneficiaries, we exceeded our 10,000 unit goal by collecting 10,745 units by the close of the fiscal year. Critical research continues to study the science on the impact of CCP on moderately and critically ill patients and how the DoD can protect our operational forces, such as those on our naval platforms and operational units, with the availability of CCP for use in remote locations.

Next Generation TRICARE Contract: DHA released the initial draft TRICARE Generation 5 (T-5) contract request for proposal (RFP) on August 29, 2020. Due to an overwhelming response, the draft RFP timeline was extended an additional two weeks. The T-5 strategy is keenly focused on transformational change through access to multiple networks, pilots on demonstrations to improve readiness, increased competition, patient choice, high quality, access, and reductions in cost. We continue open dialogue with key industry and congressional stakeholders to ensure the next generation contract fully supports our readiness, our Service members, their families and our beneficiaries. A second draft RFP is scheduled for release in mid-November.

Updates on Other Key MHS Initiatives:

1. GENESIS: The rollout of GENESIS continues to make enormous strides leveraging lessons learned from the previous execution of the Initial Operational Capability sites on the West Coast and Wave Travis. On September 26, 2020, the Nellis Wave went live at the following bases: Beale AFB, Edwards AFB, Los Angeles AFB, Nellis AFB, Vandenberg AFB, Fort Irwin Army Base, and the United States Marine Corps Air Ground Combat Center. The volume of WAVE Nellis requirements was two times the size of any previous roll out. Leadership at each facility reported no show stoppers and provided positive feedback. Lessons learned from previous sites were instrumental to a seamless release and resulted in a significantly reduced number of initial trouble tickets requiring action. The next deployment will be WAVE Pendleton and go live on October 31.

2. Military Medical Treatment Facility (MTF) Transition: In April, due to the burden of the COVID-19 response on the DHA and on the Military Department (MILDEP) Medical organizations, the Deputy Secretary (DSD) directed a pause on activities tied to the transition of MTFs. In response to issues raised by the MILDEPs to the Secretary, the Deputy Secretary is meeting with all Service Secretaries and Chiefs to better understand their specific concerns. He also has directed Cost Assessment and Program Evaluation to conduct an assessment on any impacts the pandemic has had on the operation of MTFs and utilization of medical manpower. These efforts are nearing completion and we expect feedback from the DSD on resumption of transition activities in mid-October.

3. National Defense Medical System National Defense Authorization Act 2020 Pilot: The Uniformed Services University of the Health Sciences (USU) National Center for Disaster Medicine and Public Health continue to support this pilot to increase military and civilian interoperability within the National Disaster Medical System. USU has developed proposals for five pilot site locations, conducted numerous interagency work groups to develop the path forward, and added staff to support these emerging requirements.

4. Office of the Under Secretary of Defense for Personnel and Readiness (OUSD(P&R)) Strategy: During these transformational times, the OUSD(P&R) is setting its sights on the year 2030—driving to cultivate a technologically dominant force that is strategically ready, globally relevant, and flexibly sustainable in direct support of the National Defense Strategy. The MHS will support this strategy, titled “Preserving our Competitive Advantage”, by ensuring the

medical enterprise is effectively organized to meet its mission of providing a ready medical force, a medically ready warfighter, and access to quality health care for our families and retirees. The key focus areas include:

- Data-Dominant Enterprise
- Real-time and Predictive Readiness Acumen
- Educated, Trained, and Prepared for the Global Environment
- A Resilient and Adaptive Total Force
- Talent Management Fit for the Times

The University's amazing alumni continue to accomplish great things, continue to serve our military, and to contribute to advancing medicine throughout the Nation and the world. Retired U.S. Army COL (Dr.) Robert Mabry, a 1999 graduate of USU, was recently appointed to serve as the next Principal Deputy Assistant Secretary of Defense for Health Affairs (HA). As a retired Special Forces physician, combat veteran, emergency medicine physician, and leader in our Joint Trauma System, his multi-disciplinary clinical expertise and extensive operational experience will be superb assets to HA and the entire MHS. Welcome Dr. Mabry!

I want to personally thank you for your support of USU and the MHS during these challenging times. Your tireless dedication in providing your wealth of experience, insight, and mentorship to our leaders at all levels directly enables our mission success.

A handwritten signature in black ink, appearing to read "Tom McCaffery". The signature is fluid and cursive, with the first name "Tom" being more legible than the last name "McCaffery".

Tom McCaffery

Supplement

Tab 32

School of Medicine

Uniformed Services University of the Health Sciences Board of Regents

Board Brief

Submitted by: Louis N. Pangaro, M.D., MACP Date: November 2020

Title & Department: Interim Dean, School of Medicine Phone 301-295-3016

Purpose: Information X Action X

Subject: Dean's Report: School of Medicine (SoM)

The SOM requests that a change of graduation date from 16 May to 2020 to 1 April 2020 be made for four students, in addition to the majority of the Class of 2020 previously approved for the earlier graduation date.

When the decision was made to graduate as many members of the Class of 2020 on 1 April as possible, a group of seven students undergoing Inter-Service Transfer was identified as academically qualified, but not administratively ready. Changing their graduation date would have necessitated a resubmission of that paperwork and would have delayed the process of Inter-Service Transfer. The decision was made to have these students graduate as scheduled on 16 May 2020. Two of the transfers were able to be completed in the next 10 days, and those two students were added to the 1 April 2020 graduation list, which The Board of Regents approved. Three of the four students (all transferring to the Army) are fully or almost fully transferred.

These students have requested that their graduation be changed 1 April 2020 to reflect their academic readiness for graduation with their other classmates. The SOM endorses this request and recommends this change. The students understand that this does not in itself change their date of rank.

The Service Members are (Service rank as it was at the time of graduation):

2dLt Connor Kelly

2dLt Patricia Vu

ENS Molly Chandler

ENS Lucy Yuan

Notable Achievements:

The journal *Psychiatry: Interpersonal & Biological Processes* published a book review by ENS Derrick Knox (SOM Class of 2022). In his review of "Acting White? Rethinking Race in 'Post-Racial' America," ENS Knox weaves his personal story of identity and being a medical student at USU with the book's concepts that ask us to constantly, and deliberately, reexamine how race operates in people's lives.

Dean's Office Updates

Office of Medical School Recruitment and Admissions (ADM):

- **Medical Student Recruiting:** With the help of our Video Journalist Kyle Skerbe and two of our second year medical students ENS Kristin Burnham and 2LT Harvey Harper, we created a new USU Campus Tour Video youtu.be/ZMFOkq0p6zc to augment and bolster our virtual recruiting efforts. Over the past few months, we have also conducted Virtual Recruiting events for the UCSF-Fresno ROAD Conference, Military Dream Big Career and Education Fair, National Institutes of Health Graduate & Professional School Fair, University of Virginia Graduate School Fair, Christian Brothers University and Rhodes College Graduate School Expo, UC Davis Pre-Health Conference, and UC Santa Cruz Professional School Fair. We have also given virtual presentations at the University of Iowa, University of Mississippi, Drexel University, Towson University, Louisiana State University, Dillard University, George Mason University, Georgetown, Penn State, and East Tennessee State University.
- **Admissions:** The 2021 Admissions Cycle is progressing well with nearly 3,000 applications already processed. USU medical school applications are increased from last year at this time and throughout the nation as well. The Admissions Committee has transitioned to a 100% virtual process of conducting and adjudicating candidates for admission to the School of Medicine. As a result of these changes, this is the first year that the Admissions Committee has been able to accept National Faculty Members. Dr. Charles Beadling from the Department of Military and Emergency Medicine is our first National Faculty Member who supports our regional campus in Washington State. In addition to these changes, our virtual interview season is in full swing. Initial feedback from interviewees is positive, and we have created a regular schedule of virtual panels and events for applicants to meet our students and faculty on a weekly basis. Our team has also partnered with the Office of Students Affairs and expanded our student host program to ensure all interviewed applicants are personally contacted by one of our medical students. We have also created a complete package of informational videos to welcome applicants and showcase all of the educational, research, leadership, and service specific opportunities offered at USU.
- **Enlisted to Medical Degree Preparatory Program (EMDP2):** The twenty-five service members (10 Air Force, 6 Army, 8 Navy, and 1 Marine) in EMDP2 Cohort 6 completed their first year of courses at George Mason University. All have submitted medical school applications and are enrolled in graduate coursework. Fall courses resumed using a virtual synchronous learning (face-to-face) format. Twenty-five service members (8 Air Force, 9 Army, and 8 Navy) also matriculated at George Mason University with EMDP2 Cohort 7. This cohort is enrolled in four science courses with labs. Coursework is delivered in a hybrid format with a combination of instructor-led virtual and in person lectures, and in-person labs. Working with our military service partners, USU also developed a new EMDP2 application process which is currently underway. This new system standardizes the application process across the military while ensuring individual service requirements are met. The new process is a hybrid of USU's medical school application and includes the following features:
 - Uses a standardized application form
 - Adopts features of the AMCAS application used for our School of Medicine
 - Requires chain of command endorsement/recommendation

- Includes virtual applicant interviews
- Requires DoDMERB (medical) qualification for selected applicants

In preparation for implementation of the new process and to assist potential applicants, the EMDP2 staff conducted 12 information briefings via Zoom. Over 400 – mostly enlisted – service members registered for these presentations. The application cycle is currently open and USU is accepting EMDP2 applications through November 30th. Final selections will be made between January and March, 2021. As the EMDP2 evolves, the intent is to guarantee conditional acceptance to USU as long as the selectees meet specific requirements while enrolled in the program. The goal is to select candidates that reflect the diversity of our military and nation. www.usuhs.edu/emdp2

Office of Medical Student Affairs (OSA):

- Student Highlights:
 - **Class 2024** student ENS Addison Cantor has been selected as one of the Top 30 honorees for the prestigious 2020 NCAA Women of the Year Award, honoring her “demonstrated excellence in academics, athletics, community service and leadership.” ENS Cantor was a three-year letter recipient as an athlete for Florida Southern College’s Moccasins cross-country and track and field teams.
 - **Class 2021** student 2d Lt Tesserae Komarek was competitively selected to participate in the Center for Disease Control (CDC) Epidemiology Elective Program. Class 2021 students 2LT Noelle Molter and ENS Kenneth Wise, along with the faculty mentor COL Dana Nguyen, will be presenting their work in Students as Peer Educators and Advocates for Reform at the upcoming National Academies of Science Engineering and Medicine sponsored 2020 Public Summit of the Action Collaborative on Preventing Sexual Harassment in Higher Education.
- Class Highlights:
 - We are nearing the finish line for GME applications for our MSIV students (**Class of 2021**). They have been very engaged, thoughtful, and responsive in this unusual pandemic impacted environment. In spite of numerous test cancellations, the group has also done phenomenally well on the USMLE Step 2CK examination. We are currently at a 99% pass rate. With Bushmaster deferred to the spring, the class is continuing on their clinical rotations.
 - **Class of 2022** has now completed five of eight core clerkships. The COVID-19 pandemic will extend their clerkship year into the next calendar year.
 - The **Class of 2023** is finishing up their 6th preclinical module. As they head into the final module, we will be meeting with them to ease their transition to clinical medicine and prepare them to thoughtfully sort through the process of specialty selection. The start of their clerkship year will be delayed until mid-February.
 - After completing a primarily virtual Orientation, the **Class of 2024** is in the midst of electing their student leadership for the preclerkship period. They will soon finish their first module and then participate in a Health Systems Science intersession in place of MFP 101 which has shifted to the Spring.

Office of the Commandant (OCS):

- We successfully inprocessed and oriented all 171 students of the Class of 2024. The OCS team worked very hard to minimize in person events and maintain social distancing

whenever in person events were required and had no positive cases of COVID associated with Orientation.

- Our Travel Team manager, Mrs. Debbie Smith, was selected as the GS Senior Employee of the Quarter. We are incredibly proud of her hard work and dedication!

Graduate Education Office (GEO):

- GEO New Student Orientation: GEO commenced a two-week new-student virtual orientation during the first two weeks of Aug (2020) and completed onboarding 65 military and 20 civilian students in Master's and Doctoral programs under the three Interdisciplinary and two discipline-based programs.
- GEO Completion of Degree: In the current quarter, 5 students have completed the requirements for their Master's degrees, out of them 3 are uniformed students and 2 are civilians. 4 of the graduating students will be getting their degrees in Masters in Health Professions Education (MHPE), and one in Master of Science in Medical and Clinical Psychology.
- GEO COVID Update: All GEO didactic lectures continue to be delivered using virtual formats, with exception to policy granted on a case-by-case basis to courses that require hands-on training. All graduate students with laboratory research as part of their dissertation requirements are back on campus and working in shifts to follow USU recommended safety guidelines. Exams are being held on campus with proper physical distancing and safety precautions in place. Online exams, wherever necessary, are being held with GEO honor code in place. All program-specific seminars and thesis defense are being held virtually.
- GEO Bioinformatics Initiative for Students: Working in collaboration with the Office of CIO and the SOM Dean's Office, GEO has successfully implemented a new computing resource for the students. The Bioinformatics initiative enables Google Cloud enterprise solution for expanded data analysis capacity. It allows Access to high performance computing for coursework and research through G Suite account connectivity using any USU computer. The Google Cloud platform allows Cloud Computing and Big Data Analysis, such as Next Gen Sequencing Analysis, Database Analysis, Machine Learning, etc. This is the first of its kind on USU campus and will greatly enhance student learning in the area of Bioinformatics and Computational Biology.
- Faculty and Student Achievements:
 - Henry M Jackson Foundation Fellowship Award 2020-2021: The Henry M. Jackson Foundation for the Advancement of Military Medicine selects a USU doctoral student to receive a competitive fellowship for academic excellence. This year's award was presented to Ms. Camille Lake of the Emerging Infectious Diseases graduate program. In addition to that, Ms. Guzal Khayrullina of the Neuroscience program and Ms. Mary Brockett of the Emerging Infectious Diseases program have received Honorable Mentions and a Travel Award each for their academic excellence.
 - A Molecular Cell Biology graduate student Mr. Bradley Bauman, under the mentorship of Dr. Andrew Snow of the Pharmacology Department and part of a "NIAID-

USUHS/TAGC COVID immunity Group”, has contributed to a multi-institutional scientific endeavor leading to a ground-breaking observation which shows that, in COVID-19 patients with severe symptoms, a high level of autoantibodies are generated that attack the hosts’ type I interferons (IFNs) instead of the virus. This high-impact work has been recently published in the journal “Science” and received covered by the USU online news bulletin “The Pulse” (<https://usupulse.blogspot.com/2020/09/genetic-immunological-abnormalities-in.html>)

- Ms. Patricia Theard, an MD/PhD student in the MCB program, recently published a manuscript in eLife assessing SOS1 as a therapeutic target in EGFR-mutated lung adenocarcinoma (Theard et al., eLife, 2020). This high-profile manuscript was further selected to be highlighted by the journal with an 'eLife Digest'. The two major findings of this paper were:
 1. SOS1 inhibition can significantly enhance EGFR-inhibitor efficacy and should be considered in combination treatments for patients with EGFR-mutated cancers.
 2. Most studies assessing therapies to treat lung adenocarcinoma are using insufficient models to do so. Ms. Theard outlined how future drug studies in lung adenocarcinoma cells should be performed.

Military relevance: US Military Members and Veterans are at a higher risk of lung cancer compared to the general population both because of higher smoking rates and because of several exposures (asbestos, ionizing radiation, industrial pollutants, diesel exhaust and Agent Orange, and exposures of Veterans of Iraq and Afghanistan to burn pits). This work could lead to enhanced treatment options for our military patients with lung cancer. Ms. Theard plans to do an internal medicine residency and an oncology fellowship after graduation from USU.

- Ms. Sarah Walsh, an MD/PhD - MCB Student, was a co-author on a manuscript from the USU department of Surgery assessing osseointegrated prostheses for rehabilitation of amputees (Hoyt, Walsh, and Forsberg, Expert Rev Med Devices, 2020). This review highlights how in patients that have undergone extreme amputations, osseointegrated prostheses show improved quality of life over socket prosthetics. Sarah plans to do a surgery residency after graduation from USU.
- Ms. Izzy Owen, a Molecular Cell Biology graduate program student, has recently completed a work that got accepted for publication in the journal Molecular Biology of the Cell (<https://doi.org/10.1091/mbc.E20-05-0290>). Her work sheds a new light on how a certain type of neuronal inclusions (enriched for the fused in sarcoma protein or FUS) in progressive neurodegenerative diseases Amyotrophic lateral sclerosis (ALS) and frontotemporal dementia (FTD) are formed.

Office of Medical Education (MEE):

- ○ On 16 September, the AMA-Medical Student Interest group conducted a virtual, Zoom-based interactive session with the 6th grade Class at the Washington School for Girls, a school dedicated to supporting the education of girls from under-privileged communities in

Washington D.C. This particular session focused on viruses, vaccines and COVID-19 and was exceptionally well received. Of note is that this was the 6th formal exchange activity that the AMA-Medical Student group, supported by Dr. Arnyce Pock as their Faculty Advisor, have conducted with the Washington School.

- Results from the 2020 AAMC Graduation Questionnaire (GQ) reveal that USU graduates reported that the strength of their education was “good” or “excellent” at higher rates than other medical schools in “Strength of Basic Science Preparation for Clerkships” and “Curricular Integration” as well as “Clinical Skills Needed to Begin Residency,” “Communication Skills,” and “Clinical Decision Making”
- 94.3% of graduates agreed with the statement “Overall, I am Satisfied with the Quality of My Medical Education,” six percentage points higher than all US medical schools.

Capstone Program:

- Forty five medical students presented research posters as part of the annual Founder's Day celebrations on 18 September. The majority were from the Class of 2021 who are currently applying for GME positions. Their work included basic science, clinical, education, and military/leadership research projects performed with support from the School of Medicine's Capstone Scholarship Program. Students have adapted well to this second scholarly symposium using an entirely online presentation format.
- Class of 2022 medical students Bradley Pierce (USA) and Ryan Stevens (USA), working under the supervision of Major Laura Tilley (MEM), and the Capstone Program, were invited to present their invention of a potential airway warming device for prolonged pre-hospital care to the Joint Patent and Technology Review Group (JPTRG). This is the first serious project to advance to this level of review as an initiative of the medical student's "Medical Innovations Interest Group (MI2G).

Office of Diversity, Equity and Inclusion (DEI):

- The journal Psychiatry: Interpersonal & Biological Processes published a book review by ENS Derrick Knox (SOM Class of 2022). In his review of Acting White? Rethinking Race in 'Post-Racial' America, ENS Knox weaves his personal story of identity and being a medical student at USU with the book's concepts that ask us to constantly reexamine how race operates in people's lives. <https://doi.org/10.1080/00332747.2020.1804778>
- Retired Command Master Chief Tyrone Willis joined the office as the new Recruitment Specialist for Diversity and has dived in to work with students as they coordinate their volunteer efforts, as well as reaching out to the pre-health careers advisors at Historically Black Colleges and Universities (HBCU) to speak to their pre-medical students about opportunities in military medicine.
- Equity and inclusion education continues throughout the School of Medicine: The brigade hosted for military personnel three “Breaking Bias” sessions, an intervention crafted by the Department of Medical and Clinical Psychology. The Group on Women in Medicine and Science (GWIMS) hosted a journal club on intersectionality. Chaplain Alexander led a virtual open forum, “Spirituality and Racial Justice,” with resources and toolkits from

different faith traditions. The Department of Microbiology and Immunology launched their seminar series this year with the talk “Equity and Inclusion, and You: Diversity Beyond a Number,” presented by CAPT Patcho Santiago, the Associate Dean for Diversity and Inclusion.

Good News

Anesthesiology (ANE):

- Pushpa Sharma, PhD, Research Associate Professor, published article "Potential Immunotherapeutic Targets for Hypoxia Due to COVI-Flu" in the Journal Shock. The paper was selected as Editor's choice. One of the theme figures of this paper will be on the cover page of J. Shock. The CDC has added this paper in their database. CDC to support the guidelines for early flu vaccination and JAMA is writing an expert commentary on it.
- Pushpa Sharma, PhD, Research Associate Professor, is senior author of "Biomarkers for Epileptogenesis in Patients with Autoimmune Epilepsy" in press with Neuroimmunology and Neuroinflammation.
- Luke Michaelson, PhD, Research Assistant Professor, Mungunsukh Ognoon, PhD, Postdoctoral Fellow and Sheila Muldoon, MD, Professor Emeritus, are co-authors on manuscript submitted to the Canadian Journal of Anesthesiology: "RYR1 Mutations Are Not a Common Cause of Malignant Hyperthermia Susceptibility in Exertional Rhabdomyolysis"

Anatomy, Physiology & Genetics (APG):

- USU researchers, Dr. Clifton Dalgard, director of The American Genome Center (TAGC) and Associate Professor of Anatomy, Physiology and Genetics, and Dr. Andrew Snow, Associate Professor of Pharmacology and Molecular Therapeutics, are both among the international team of scientists affiliated with Covid-19 Human Genetic Effort working to study genetic influences of COVID-19 disease by sequencing the genomes of patients infected with SARS-CoV-2, the virus that causes COVID-19. Two manuscripts from the group were published in Science: "Inborn errors of type I IFN immunity in patients with life-threatening COVID-19" and "Autoantibodies against type I IFNs in patients with life-threatening COVID-19".
- Dr. Jeremy Smyth in the APG Department was elected to a two-year term as Vice President of the Greater Washington DC Area Physiological Society, the local chapter of the American Physiological Society. Ms. Courtney Petersen, an MCB Graduate Student in Dr. Smyth's lab, was also elected to be the Graduate Student Representative to the same society.
- Guzal Khayrullina (NES student in Dr. Burnett's lab) received an Honorable Mention for the HJF Fellowship.
- Michael Nieves (NES student in Dr. Doughty's lab) published in Brain Research on "Host Sex and Transplanted Human Induced Pluripotent Stem Cell Phenotype Interact to Influence Sensorimotor Recovery in a Mouse Model of Cortical Contusion Injury".
- Dr. Matt Wilkerson and colleagues published “MutEnricher, a novel method and software for cancer driver gene discovery" in BMC Bioinformatics. MutEnricher is utilized within USU cancer research studies and is open source for the broader research community.

- Dr. Greg Mueller's research team completed analysis of first 5,000 participants in the Framingham Cohort for 200 microRNAs relevant to cardiovascular disease. This accomplishment sets the stage for the evaluation of the entire Framingham Cohort.

Family Medicine (FAM):

- The USU FMIG Chapter (Amanda Hall, Carlie Skellington, Dana Leuker, Savannah Kounelis-Wuillaume (students) and Matt Hawks (faculty)) was formally recognized by the American Academy of Family Physicians as a national Program of Excellence. Specifically, our program received the award for Excellence in Promoting the Scope of Family Medicine.
- On October 1, CAPT Jeff Quinlan, previous Chair, Family Medicine, will retire after 28 years of service.
- CDR Mike Arnold was selected and spoke as the White Coat Ceremony Speaker (first virtual one for USU) for the Class of 2023.
- CDR Francesca Cimino was named as the new Family Medicine Residency Director at Ft. Belvoir Community Hospital--the military's largest, and only triservice FM Residency program in 2021.

Medicine (MED):

- Congratulations to Paul Hemmer, MD, MPH MACP, Professor, selected as the 2020 Alpha Omega Alpha Robert J. Glaser Distinguished Teacher Award winner by the Association of American Medical Colleges. The award committee noted that Dr. Hemmer has dedicated his career to improving medical education through significant contributions to medical education, research, clinical care, and community engagement.
- Congratulations to COL Patrick O'Malley, for his article "Management of Dyslipidemia for Cardiovascular Disease Risk Reduction: Synopsis of the 2020 Updated VA/DoD Clinical Practice Guideline," printed in the Annals of Internal Medicine to be published online 22 September, and in print 17 November.
- Dr. David Burmeister (Associate Professor, MED), and a team of research collaborators out of JBSA, recently published, "Burn resuscitation strategy influences the gut microbiota-liver axis in swine," in Scientific Reports, aimed at informing the impact of standard-of-care modified Brooke (MB), limited-volume colloid (LV-Co), and limited-volume crystalloid (LV-Cr) resuscitation on the gut microbiota, and to evaluate its' potential relationship with liver dysfunction.
- Well done, Dr. Lisa Shank, Assistant Professor, MED, for recognition by the National Institute of Diabetes and Digestive and Kidney Diseases in support of her training as an early-career investigator and for her work examining the relationship between disordered eating and cardio-metabolic health. The award consists of up to \$50,000 repayment annually of a researcher's qualified educational debt.
- Kudos to COL Jess Edison, for his service as the DoD Co-Champion for the revision of DoD/VA Osteoarthritis Guideline which was completed and published last month. His efforts and expertise will inform high-quality clinical care for many of our veterans and service members.
- "BZ" to COL Kevin Chung, Professor and Chair, MED, guest speaker on the Government Matters series episode, "Tech Leadership Series: Health," where leading experts from the public and private sectors were brought together for a look at some of the challenges to and

best practices for Health in government. Link: <https://govmatters.tv/tech-leadership-series-health/> (original air date 23 Sept).

Military and Emergency Medicine (MEM):

- Faculty from MEM and other departments made up much of the COVID-cancelled hands-on skills associated with Combat Medical Skills (CMS) and Point-of-Care Ultrasonography (POCUS) for the Class of 2023 during an Academic Recapture Period of July 6-8.
- The Advanced Combat Medical Experience (ACME) was successfully modified for distance learning and conducted 3-7 August. Didactic education in the Tactical Combat Casualty Care (TCCC) guidelines was covered in greater depth than in previous years, but skills training was deferred due to the pandemic.
- Warfighter in the Environment was moved from early December 2020 to 10-12 August 2020. Open time in December is being considered for making up skills associated with ACME if it will be safe to do so at that time.
- The Antietam Battlefield Staff Walk scheduled for 21 August was canceled for in-person large-group participation. Discussions related to each of the planned stops were conducted via distance learning with the expectation that individual learners would go to the battlefield to view the terrain and correlate the virtual discussions when it is safe to do so.
- After careful consideration, the two Medical Field Practicums (MFPs) scheduled for 3-16 October 2020 have been postponed until 2021. MFP 202 "Operation Bushmaster" for the SoM Class of 2021 and participating GSN students has been tentatively rescheduled for 27 April to 6 May. MFP 101 for the SoM Class of 2024 has been tentatively rescheduled for July or early August. Site availability and logistical details for both MFPs are still being worked by the Brigade and the Department of Military & Emergency Medicine.

Neurology (NEU):

- Traumatic Brain Injury Biomarkers Publications in Neurology with Featured Editorial:
 - <https://n.neurology.org/content/early/2020/07/08/WNL.0000000000009983>
 - <https://n.neurology.org/content/early/2020/07/08/WNL.0000000000009985>
 - <https://n.neurology.org/content/early/2020/06/29/WNL.0000000000009992>

Obstetrics and Gynecology (OBG):

- Dr. Mario Oyola who is a post-doctorate fellow in Dr. Wu's lab was independently selected as a rising star at top 100 Hispanic scientists in America. <http://crosstalk.cell.com/blog/100-inspiring-hispanic-latinx-scientists-in-america>. "In honor of National Hispanic Heritage Month, we're showcasing 100 of the most inspiring Hispanic/Latinx scientists working in the United States. This list—selected based on scholarly achievements, mentoring excellence, and commitment to diversity, equity, and inclusion—represents only a subset of the scientific role models in the community. Our aim in assembling these names is to put an end to the harmful myth that there are not enough diverse scientists to give seminars, serve as panelists, or fill scientific positions. We highlight scientists encompassing careers within academia, government, and biotech and showcase individuals committed to serving diverse student populations at Hispanic-serving institutions."
- Col Barton Staat, Chair of OBG, was awarded Professor of the Year by the American College of OB/GYN Armed Forces District. This award is given to the most outstanding

professor within the 9 OB/GYN Residencies and 5 sub-specialty fellowships with over 2000 members.

Pathology (PAT):

- Professor Michael Daly was recognized in Forbes Magazine for his technology that protects protein epitopes while inactivating pathogenic microbes and viruses by irradiation - a novel and rapid method simple and highly immunogenic vaccines <https://www.forbes.com/sites/jamesconca/2020/07/21/if-extremophile-bacteria-can-live-in-nuclear-reactors-maybe-they-can-help-us-make-vaccines/#3b770c7f7619>

Pediatrics (PED):

- Lt Col Kirk Jensen (PED) was awarded the Dean's Teaching Award for billeted, uniformed faculty in recognition of his expert contributions to pre-clinical educational programs as module director for both Reproduction and Endocrinology, and Gastrointestinal Tract, Hepatobiliary System, Hematology, Nutrition and Metabolism, including executing the transition to distance learning due to the pandemic.
- PED faculty taught a fully virtual iteration of the Military Medical Humanitarian Assistance Course (MMHAC) on 24 and 25 Aug to twenty students drawn from operational units and global medical treatment facilities, such as the 322nd Civil Affairs Brigade; 3rd Medical Brigade; JIATF-NCR; Sigonella; Lakenheath; Det G EMF; NAH Sigonella, NMRTC Camp Pendleton; Okinawa, Japan, NEPMU-5.

Pharmacology (PHA):

- Dr. Feri Nugent was awarded a grant from the NINDS for \$419,365 titled: Lateral habenula circuit dysregulation in mild traumatic brain injury. The research program will study mild traumatic brain injury rewires reward circuits to induce depressive behavioral responses and identify novel targets for potential therapeutics.
- Dr. Vijay Singh delivered an invited address to the Radiation Research Society meeting titled: Medical countermeasures against radiation injury: Discovery, development, and future directions in October, 2020.
- Dr. Kari Johnson was awarded a prestigious travel award by the American College of Neuropsychopharmacology. This competitive award is given to talented young scientists to present their research and encourage future participation in the College. Dr. Johnson is an Assistant Professor in PHA specializing in neurotransmitter signaling and the neurobiology of alcohol use disorder.
- Dr. Andrew Snow (PHA), in partnership with Dr. Clifford Dalgard (APG / TAGC) and collaborators at NIAID, published two studies in Science that reveal why individuals can present with severe forms of COVID-19 disease based on their genetics. This work helps to explain why men may suffer from COVID-19 more readily than women. Dr. Snow is on the Steering Committee of the COVID Human Genetic Effort.

Preventive Medicine and Biostatistics (PMB):

- CPT Hunter Smith, a PGY-3 in the USU Preventive Medicine residency in the Department of PMB, is the recipient of the American College of Preventive Medicine (ACPM) Don Gemson Resident Award.

- Dr. Tracey Koehlmoos, co-lead the Research Translation Core for the initiative for the PREVENTS roadmap Launch.
- The EPIC Team will present three MHS-focused Health Services Research posters at the Academy Health Annual Research Meeting from 28 July-6 August. The Comparative Effectiveness and Provider Induced Demand team will present three MHS focused health service research posters at the Academy Health meeting being held virtually from July 28 - August 6.
- Submitted a COVID anesthesia filter apparatus to the FDA (for emergent use approval) along with CDR Ted Benchoff and the anesthesia CRNA at Walter Reed. CDR Benchoff and Col Condie worked on the filter portion.
- The new PMB class of students arrived in July with an orientation on the 6th, and they then started classes largely via Distance Learning. The new class includes 17 MPH students, (including 10 residents), 9 MHAP students, 1 MSPH student and 2 PhD students.
- CPT Hunter Smith, Preventive Medicine Residency Class of '20, served as guest editor for a theme issue of AMA Journal of Ethics, which was just published on-line at the following address: <https://journalofethics.ama-assn.org/issue/opioids-and-public-health> The topic of this issue is "Opioids and Public Health"
- PMB welcomes new faculty: Dr. Jangho Yoon (Oregon State), an Associate Professor in the Division of Health Services Administration; CAPT Mike Stevens (USN), an Assistant Professor in the Occupational and Environmental Health Services division.
- Continuation: PMB welcomes new faculty: LCDR David Wolfe, a microbiologist and Assistant Professor in the Division of Global Health who will be running the Military Tropical Medicine course; and LT Danny Ellis, an Assistant Professor in the Division of Health Services Administration.
- Col Karyn Condie has submitted paperwork to trademark the name and design of a dual-HEPA filtered chamber intended to reduce the risk of COVID transmission during anesthesia procedures. The chamber was developed in collaboration between OEHS faculty and Walter Reed anesthesia personnel.

Physical Medicine and Rehabilitation (PMR):

- Thanks to Dr. Burns and Dr. Niemtzow, MAJ Michelle Nordstrom, has been entrusted to be a certified BFA Instructor. This has been such a big success in Kuwait and throughout CENTCOM that PAO wanted to document it.
- The MIRROR study entitled "Use of Autologous, Micro-Fragmented Adipose Tissue to Treat Meniscal Injuries in Active-Duty Military Personnel" has recruited its first patient. The objective is to determine the safety and efficacy of minimally invasive intrameniscal injection with autologous, micro-fragmented adipose tissue under ultrasound guidance for symptomatic meniscal injuries in active duty.
- On June 24, Dr. Brad Hendershot Lead Scientist for (EACE) was awarded a certificate and a director's coin from Army Col. Andrew Barr, for the Navy-wide Academic Research Competition held in May. Dr. Hendershot was recognized for his work examining the impact of a fall-prevention training on postural control for service members with lower limb trauma and loss.
- Members from the NIH-DoD-VA Pain Management Collaboratory Coordinating Center (PMC3) work groups for Electronic Health Records (EHR), Data Sharing, and Phenotypes

and Outcomes were invited to host a panel discussion at the American Medical Informatics Association (AMIA) 2020 Annual Symposium.

Psychiatry (PSY):

- Drs. Morganstein, Benedek and Wynn were asked by leaders at USU and the Joint Trauma System to present on healthcare provider wellbeing and sustainment for the JTS Clinical Case Conference series on COVID19 after learning about stressful exposures for JTS rapid response teams sent to rural communities in the US to assist with healthcare systems overwhelmed by COVID19 patients.
- The Army News Service published an article on the Army website (army.mil) titled “VA joins Army in major DoD research effort to prevent suicides.” The article announced the VA joined the Army, DoD and NIMH in support of the STARRS research program that has been ongoing since 2009 under the leadership of Principal Investigator Dr. Ursano at USU/CSTS. <https://www.army.mil/article/238093>
- Presentation: Morganstein, J.C. (2020, Sep). Finding Structure in Chaos: Leadership, Risk, and Virtual Care During COVID-19. Presented at symposium “Confronting the Pandemic: A Mental Health Perspective and Maintaining Operational Readiness of NATO Forces,” North Atlantic Treaty Organization. <https://vimeo.com/456993199/a43af68513>
- Blog: Naifeh, J. A., & Herberman Mash, H. B. (2020, September 17). Lessons from suicide attempts among U.S. Army soldiers during deployment. Psychological Health Center of Excellence Clinician’s Corner Blog. <https://www.pdhealth.mil/news/blog/lessons-suicide-attempts-among-us-army-soldiers-during-deployment>
- Drs. Benedek, Morganstein and Wynn recorded "Building Resiliency in COVID-19 Frontline Medical Responders" a narrated presentation and Q&A session to be presented during the Threat Lab (Virtual) Insider Threat Summit beginning 2 September.
- A podcast episode titled, “Helping Kids Cope with the COVID-19 Pandemic,” was published publicly for the Military Child Education Coalition's (MCEC) “For the Sake of the Child” podcast (https://www.podbean.com/media/share/pb-e36sj-e91250?utm_campaign=u_share_ep&utm_medium=dlink&utm_source=u_share). The podcast episode was taken from a webinar Dr. Cozza presented to MCEC in May 2020.
- Book Published: Mash, H.B. Herberman (2020). Book review: She Has Her Mother’s Laugh by Carl Zimmer. *Psychiatry: Interpersonal and Biological Processes*, 83(2), 197-201.
- Dr. Vance was interviewed for a podcast, *Psychiatry Unbound*, in relation to her recently published book “A Psychiatrist's Guide to Advocacy.”

Surgery (SUR):

- Congratulations to CAPT Eric Elster, MC, USN for his selection as the inaugural holder of the Norman M. Rich Chair of Surgery. This Chair was recently authorized by President Thomas and the Board of Regents in honor of Dr. Norman M Rich, the founding Chair of USU’s Department of Surgery, and a powerful advocate for military medicine for more than 50 years.
- Superb virtual mentorship provided by Desiree Unsel was instrumental in four USAF cadets being nominated for Cadet Summer Research Program awards. According to Dr. Jordan Steel, CSRP Director, "Mentoring and training takes a lot of time and effort and I want you to know that we recognize that effort and really appreciate it. We are grateful to have such wonderful CSRP mentors and hosts."

- Forty-six students took the NBME exam and there were no recorded failures. The lowest score was 62 with an average over the two days being 74 and 74.5. These figures are identical to the national mean which is typically only seen at the end of the clerkship year.
- On 16 Sep 20, Dr. Jeremy Cannon, Dr. Kirby Gross, and Dr. Todd Rasmussen had an article published online with JAMA Surgery, "Combating the Peacetime Effect in Military Medicine." The conclusion succinctly read "By recruiting and retaining high-caliber, military-ready medical professionals we will succeed in the mission and will start and maintain exceptional survival rates when war comes again."

Center for Deployment Psychology (CDP):

- Personnel from the Center for Deployment Psychology worked with psychologists from the Army to respond to a request from US Southern Command to support a humanitarian effort to train professionals in Trinidad and Tobago to effectively repatriate traumatized families to their country.
- Personnel from the Center for Deployment Psychology trained behavioral health professionals at New York Presbyterian Healthcare System to evaluate and treat health care professionals traumatized by their work caring for patients with COVID-19 in New York City.

Defense and Veterans Center for Integrative Pain Management (DVCIPM):

- The Military Advanced Regional Anesthesia & Analgesia handbook, 2ed, will be published through the Oxford University Press (ISBN: 9780197521403). This is an update of the first battlefield medicine text devoted to pain management developed by the USU Department of Anesthesiology through DVCIPM.

Infectious Disease Clinical Research Program (IDCRP):

- The Epidemiology, Immunology and Clinical Characteristics of Emerging Infectious Diseases with Pandemic Potential (EPICC) study as of 29-SEP-2020, the study has enrolled over 780 participants across seven participating sites. Initial analyses are underway, and the team is preparing the first manuscripts for publication in early FY21.
- The Adaptive COVID-19 Treatment Trial (ACTT) is a NIAID sponsored adaptive, randomized, double-blind trial to evaluate the safety and efficacy of novel therapeutic agents in hospitalized adults diagnosed with COVID-19 for which IDCRP and partner sites are participants. Results of ACTT-1 compared Remdesivir vs Placebo for the treatment of COVID-19 and was published in May 2020 in the New England Journal of Medicine (NEJM). ACTT-2 compared Remdesivir + Placebo vs Remdesivir + Baricitinib for the treatment of COVID-19 at 71 sites globally, 5 of which were Military Treatment Facilities; enrollment completed June 30, 2020 and 1084 patients were enrolled across all sites. Results of ACTT-2 are being drafted in a manuscript for submission to New England Journal of Medicine in October 2020. ACTT-3 is the third arm of the trial which began enrollment August 4, 2020 comparing Remdesivir + Placebo vs Remdesivir + Interferon Beta-1a for the treatment of COVID-19 at 60 sites globally, 7 of which are Military Treatment Facilities (MTFs).
- TOSCANA: The Observational Seroepidemiologic Study of COVID-19 at the United States Naval Academy is actively enrolling with 178 participants to date.

- Prospective assessment of SARS-CoV-2 seroconversion (PASS Study) to describe how often healthcare staff at WRNMMC acquire asymptomatic SARS-CoV-2 infection is actively enrolling with 49 participants to date.
- Prospective investigation of COVID-19 epidemiology and serology (PISCES) study is being developed for active surveillance among USU members to understand the association between occupational-, household-, and community-level risk factors and the risk of SARS-CoV-2 infection.
- Engagements with Astra Zeneca (AZ) through Operation Warp Speed (OWS) ongoing for development of trials with IDCRP partners to evaluate both the AZ vaccine candidate and monoclonal antibody in phase III clinical trials.
- IDCRP presented plans to its Operational Steering Committee for establishment of a new Research Area Directorate for COVID-19 that aims to address short and long term impacts of SARS-CoV-2 infections in military members and beneficiaries, evaluation of immune responses, and evaluation of prevention and therapeutics in DoD populations.
- Thirteen abstracts were accepted for presentation at IDSA IDWeek to be held virtually from 21-25 October. Presentations include 1 oral presentation from HIV and posters from the ARI (4), HIV (1), Deployment and Travel Related Infections (D/T) (4), Wounds (1), Sexually Transmitted Infections (STI) (1), and COVID-19 (1).
- Additional abstracts were accepted for presentation at ASTMH (1), STI Engage (2), TSMC (1), USU Centers Forum (1), SAS Global Forum (1), and Tri-service ACP (1).
- Recent manuscript by Dr. Derek Larson and colleagues accepted for publication in Clinical Infectious Diseases (CID) titled “A Case of Early Re-Infection with SARS-CoV-2”, documenting an important concern regarding immunity to SARS-CoV-2 over time and implications for vaccine mediated immunity.
- Three new articles published from D/T in AJTMH, PLoS One; 4 new articles from HIV in Military Medicine, CID, and Quality of Life Research; and 3 publications from Wounds research area in Journal Surgical Research, Infection Control Hospital and Epidemiology, and Current Fungal Infections Report. Additionally, 1 new manuscripts accepted for publication and 7 new manuscripts submitted for peer review from D/T (1), HIV (6).
- CDR Mark Simons, PhD, MSC, USN, joined USU and IDCRP as Deputy Program Director, bringing a wealth of clinical microbiology laboratory as well as research execution and management expertise. He is coming from Naval Medical Research Center, where he led the Wound Infections Department, and also served as medical director of the Navy Infectious Diseases Diagnostic Laboratory (a post he will continue to maintain from IDCRP, supporting NMRC and DoD clinical diagnostic capabilities) as well as the Capability Area Manager for Wound Infections for the Military Infectious Diseases Research Program (another post in which he will continue to serve). LTC Charlotte Lanteri, the outgoing Deputy Program Director, transferred to WRAIR to lead the Experimental Therapeutics division, and continues to maintain collaboratively engaged in IDCRP research projects.

Murtha Cancer Center Research Program (MCCRP):

- Prior to its cancellation, twenty-one abstracts submitted to Military Health System Research Symposium 2020 by MCCRP investigators were accepted. Nineteen were accepted as abstracts and two were awarded podium presentation status. The studies mostly addressed the cornerstones of military readiness: prevention, screening and detection, and diagnosis.

- Dr. M. Wilkerson, Data Science Core director of USU's Center for Precision Medicine in Military Medical Education and Research and Dr. H. Hu, research associate professor in USU's Department of Surgery, MCCRP Council member and CSO for the CSSIMMW were among the 129 selected from approximately 1,000 members of The Cancer Genome Atlas (TCGA) team to be honored with the AACR's Team Science Award.
- Dr. Shriver led the MCCRP Annual Retreat on July 31. It was held virtually because of COVID-19 constraints. Updates were given on collaborations with federal agencies and cancer centers and advances in proteogenomics programs. PIs gave updates on GYN CoE, CPDR, CBCP, and Biobank programs. A leadership panel discussed how MCCRP would continue operations during COVID-19 and the future of the MCCRP.
- MCCRP and DHA Oncology Clinical Community are tasked by DoD to respond to a SASC tasker regarding the availability and use of molecular testing for active duty SMs with rare cancers. The response will center on MCCRP's Applied Proteogenomics Organizational Learning and Outcomes program which provides full proteogenomic analyses through USU labs of cancers in SMs treated at 8 DHA MEDCENS/MTFS.

National Center for Disaster Medicine and Public Health Preparedness (NCDMPH):

- NCDMPH collaborated with 5 USU Centers to develop a document, Well-Being of Healthcare personnel during a Time of Crisis, aimed at improving the well-being of workers in the health care system during times of crisis, especially during COVID-19.
- Dr. Craig Goolsby and his team published 5 articles in peer-reviewed journals this quarter, including in JAMA Network Open and Annals of Emergency Medicine, covering prehospital/public hemorrhage control and COVID-19 related topics.
- CAPT Eric Deussing joined the NCDMPH team to lead six new staff hires to kick-off phase 1 of the Military-Civilian NDMS Interoperability Study (MCNIS) authorized by the FY20 NDAA. The pilot program will strengthen interoperable partnerships across the NDMS to care for our Nation's combat casualties by increasing medical surge capabilities and capacities.
- Dr. Craig Goolsby chaired a virtual panel discussion at the EMS World Expo, and Ms. Raphaëlle Rodzik delivered a virtual presentation at the Preparedness Summit about NCDMPH's First Aid for Severe Trauma (FAST) program – a novel curriculum designed to teach teens life-saving skills when caring for injured people.
- NCDMPH partnered with CSTS to present A Disaster Behavioral Health Tool for the COVID-19 Era. The well-attended webinar provided a resource tool for educators and trainers working with health professionals concerned with the psychosocial consequences of extreme events including COVID-19.

Surgical Critical Care Initiative (SC2i):

- Jeanette Polcz, Capstone Student with SC2i published "Prospective Observational Vascular Injury Treatment (PROOVIT) Registry: Temporary Vascular Shunt Utilization in Civilian Extremity Vascular Injury" in the Journal of Vascular Surgery.
- Multiple SC2i authors including Dr. Beau Muñoz, Resident affiliated with SC2i published "Clinical Risk Factors and Inflammatory Biomarkers of Post-traumatic Acute Kidney Injury in Combat Patients" in the journal SURGERY.

- Dr. Desiree Unselt, Bioinformatician with SC2i, had her poster "Standardizing the Tissue and Data Acquisition Protocol (TDAP) Dataset using the Observational Health Data Sciences and Informatics Common Data Model (OHDSI CDM)" accepted at the OHDSI Symposium.
- Katey Osborne, Clinical Research Trainee under the supervision of SC2i Biostatistician Dr. Scott Grey, had her poster "External Validation of a Massive Transfusion Protocol App-Based Algorithm in Military Combat Casualties" accepted at the American College of Emergency Physicians (ACEP) meeting.
- Dr. Desiree Unselt presented "Identifying Transcriptomic Profiles Associated with Microbial Critical Colonization in Combat Casualty Patients" at the USU 2020 Forum.
- Dr. Nicholas Be, SC2i collaborator at LLNL, presented "Comparative Whole Genome Analysis of Acinetobacter in Combat Wounds via Direct Metagenomic Sequencing Without Bacterial Culture" at the USU 2020 Forum.
- Dr. Yoram Vodovotz, SC2i collaborator at the University of Pittsburgh, presented "Dynamic Networks and Principal Drivers of Systemic and Local Inflammation in Combat Casualties" at the USU 2020 Forum.
- Resident researcher Benjamin Hoyt's abstract entitled "TXA Administration and Thromboembolism in Combat Casualties with Orthopaedic Injuries" was accepted as a virtual presentation at the Society of Military Orthopaedic Surgeons (SOMOS) meeting.
- Lauren Peterson, Clinical Research Trainee at the USAF Academy and mentored by Dr. Desiree Unselt, has won the nomination at the department and divisional levels for the best overall Cadet Summer Research Program (CSRP) project.
- SC2i expanded its collaborations to include the University of South Florida (USF) as a new site for enrolling burn patients into our TDAP multi-center Study.
- Kudos to the SC2i lab team, led by Dr. Victoria Doseeva and John Hall, as well as the Regulatory team, led by Dr. Jaspreet Seth, for successful GCLP Audits for SC2i Laboratories.
- SC2i initiated deploying its Artificial Intelligence Sepsis Expert (AISE) Clinical Decision Support Tool within the MHS following DoD approval and funding.

Val Hemming Simulation Center (SIM):

- Working with a number of USU departments the Simulation Center has conducted several "Virtual Patient Interactions" to substitute for live clinical training events that allowed learners to "stay on track" toward fulfillment of their educational requirements in UME. This work was published by Mr. Michael Montgomery, Drs. Sebastian Lara, Christopher Foster and Mathew Hawk: "Remote Clinical Skills Assessment during COVID-19: A High Stakes, Summative, Pediatric OSCE". Academic Pediatrics. 5 Jun 2020. See picture
- VGH Simulation Center was the first school in the Baltimore Washington area to resume Simulated Patient encounters under strict Covid-19 rules and successfully conducted several session for incoming first years students.
- Under a JPC-6 grant, continued research on the best way to train to novices on life saving procedures for enroute care including surgical airway, fasciotomy, lateral canthotomy/cantholysis, REBOA and Patient Handover.
- Dr. Lopreiato was appointed to a NMBE Step II CS committee on re-designing that licensing exam that all our students must take.
- Dr. Lopreiato collaborated on the second edition of the Healthcare Simulation Dictionary recently published by AHRQ. <https://protect2.fireeye.com/url?k=18aedee4-44fac798->

18aeefdb-0cc47adc5fa2-c66323693f56c992&u=https://www.ahrq.gov/patient-safety/resources/simulation/terms.html



Supplement

Tab 33

Graduate School of Nursing

Board of Regents Brief

Submitted by: Carol A. Romano, PhD, RN, FAAN

Date: October 12, 2020

Title & School: Dean, Graduate School of Nursing

Phone: 301-295-9004

Purpose: Information

Action _____

Subject: Dean's Report – Graduate School of Nursing

Education

- The GSN was designated as a Center of Excellence[™] (2020-2024) by the National League for Nursing (NLN) for excellence in the category “Enhance Student Learning and Professional Development.” There are fewer than 70 schools of nursing from across the country and the academic spectrum of higher education in nursing that have achieved NLN Center of Excellence designation in any category.
- The American Association of Colleges of Nursing (AACN) AACN awarded the GSN with the “2020 Innovations in Professional Nursing in an Academic Health Center Award” for the GSN creative integration of operational readiness with our APRN signature curriculum.
- The GSN High Level Disinfection was successfully transitioned to an online offering. course and offered to Military Health System (MHS) perioperative nurses and staff from around the world. First iteration was well attended and positively received. In addition, MAJ Rodriaguez and MAJ Romito gave a virtual briefing to the DHA Surgical Community called: Evidence-Based Methods for Sterility and High Level Disinfection Assurance: The Path to High Reliability." Approximately 160 attendees from all three branches.
- Faculty CDR Ken Radford and student LCDR Neil Petersen invited to participate in a 4-day immersive trauma training course in partnership with the Hostage Rescue Team of the Federal Bureau of Investigation in Quantico, Virginia. Course focused on rapid trauma assessment, advanced airway and blood management, wound care, and basic veterinary medicine for military working dogs. This course facilitated interprofessional education between inter-governmental agencies while fostering clinical, operational, physical, and emotional (COPE) readiness for GSN students and faculty.
- 2 Operational Medicine Dive courses and 1 Mountain Medicine course were held in the fourth quarter. GSN and SOM students along with some Brigade staff attended.

- The GSN students attended a virtual Antietam professional military education ‘staff ride’ experience for terrain and historic and current battlefield military medicine considerations.
- Military Sexual Trauma course moved from March to October to fill gap created by rescheduled MCM/Bushmaster. Remains interprofessional with participation by Joint Base SATX physician assistant/sexual assault medical forensic examiner (SAMFE) and Walter Reed Chaplains.
- The Lieutenant Colonel Isabelle Bagin Memorial lecture was held virtually on October 2, 2020. The guest speaker was Dr. Patricia Flatley Brennan, Director of the National Library of Medicine.

GSN Response to SARS Co-V2

Current Status

- All courses remain online; with exceptions for testing, clinical health assessment simulations, and medical procedure labs. Physical distancing and safety precautions remain in place and are continually reinforced by faculty.
- 70-80 % of faculty teleworking
- Clinical rotations coordinated with waivers for restriction of movement (ROM) and exceptions to travel policy (ETP).
- Developing multiple MOUs with civilian training sites to provide access to anesthesia specialty and co morbidity case experiences for students.

Impact on Cohorts

Class of 2021

- Anesthesia & Nurse Practitioner students in Phase II status, rotating in civilian sites for access to cases.
- Faculty closely monitoring total clinical hours and experiences

Class of 2022

- Students successfully transitioned to their Phase II clinical rotation sites.
- Highly volatile clinical training environment
 - Some MTFs requiring quarantine for students; some clinics closed
 - Multiple MTFs turned students away due to lack of preceptors.

Class of 2023

- (Delayed start from May to July) Students report at end of summer semester that they would like more face to face contact with faculty. Periodic, limited on site classes implemented with social distancing.

PhD

- Pre-dissertation phase: courses continued online
- Dissertation phase: Most students had to make significant adjustments to complete data collection (3 year timeline for military officers).

Faculty

- Dr. Patrick DeLeon received this year's American Academy of Nursing's 2020 Lifetime Legacy Award at the annual meeting

- Dr. Joan Wasserman, Associate Dean for Research and Professor, was inducted as a Fellow into the prestigious American Academy of Nursing. Less than 0.1% of US Nurses receive this recognition. GSN has 12 faculty and 7 alumni who achieved Fellow status.
- The National League of Nursing selected Dr. Laura Taylor, Program Chair of the Adult-Gerontology Clinical Nurse Specialist Program, to receive the 2020 “Mary Adelaide Nutting Award for Outstanding Teaching or Leadership in Nursing Education”.
- LTC JoEllen Schimmels received the Army Nurse Corps Association for the Military Nursing Practice Award for outstanding proficiency and noteworthy mark on military nursing and patient care delivery.
- MAJ Jose Rodriguez was selected as the 2020 recipient of the AMSUS Training and Education Award.
- CDR Kennett Radford was selected as the 2020 recipient of the AMSUS Nursing Award.
- Col Candy Wilson, Air Force Service Advisor was selected to be on the Development Team Board to select students for AFIT.
- Dean Carol Romano is chairing the School of Medicine Dean Search Committee.

Faculty Research and Scholarship

Publications

Hamlin, L., Munroe, M., & DeLeon, P. (In Press). The critical importance of certified nurse-midwives in contemporary health. *Journal of Health & Human Experience*.

Kostas-Polston, E. A., Braun, L. A., & Miedema, J. Promoting Military Women’s Self-Maintenance of Urogenital Health & Operational Readiness: A Qualitative Study Using the Inductive Thematic Analysis Method. (Accepted for October 2020 publication), *The Journal of the American Association of Nurse Practitioners*.

Braun, L. A. & **Kostas-Polston, E. A.,** Miedema, J., Hoffecker, L., & **Wilson, C.** (Accepted for October 2020 publication,). A Scoping Review of Cervical Cancer Risk Factors, Prevention, Diagnosis, and Treatment in U.S. Active Duty Military Women. *Women’s Health Issues*

Payne, C., Dunston, S., Dan, D., Curtis, B., **Moore, C., & Hefley, J.** (in press). Prevention of pruritus following spinal morphine. *Journal of Maternal Child Nursing*. MCN-D-20-0085R1.

Salinas, D., Sartain, B., Sullivan, J., **Moore, C., & Hefley, J.** (in press). An evidence-based approach to implementing ultrasound-guided peripheral intravenous practices on a multi-service unit. *MEDSURG Nursing*. MSJ-190.

Moore, C.B., Bledsoe, R.H., Keller, M., **Bonds, R., & King, H.** (in press). Preventing postoperative nausea and vomiting during an ondansetron shortage. *AANA Journal*. AANA-D-19-00113R1.

Dan D.N., & **Moore C.B.** (in press). Surviving a broken heart: A case of intraoperative cardiac arrest and Takotsubo cardiomyopathy. *AANA Journal*. AANA-D-19-00066R1.

Owen, R. & Schimmels, J. Spotlight on Caring: Leadership After A Crisis: The Application of Psychological First Aid, *The Journal of Nursing Administration* (October 2020)

Owen, R. D. & Schimmels, J. (2020). Leadership after a crisis: The application of Psychological First Aid. *Journal of Nursing Administration*, 50(10), 505-507. doi: 10.1097/NNA.0000000000000925

Stucky, C., De Jong, M., **Rodriguez, J.A.** (2020). A Five-Step Evidenced-Based Practice Primer for Perioperative Registered Nurses. *AORN Journal* (November 2020).

Giordano, N.A., Compton, P., Joseph, P.V., **Romano, C.A.**, Piano, M.R., Naylor, M.D. (September 2020) Opportunities and Challenges Presented by Recent Pedagogical Innovations in Doctoral Nursing Education, *Journal of Professional Nursing*. DOI 10.1016/j.profnurs.2020.09.003 Elsevier reference YJPNU1384

Schimmels, J., Bajjani-Gebara, J., Owen, R., Lewis, T., & Wallace, E. (2021). The Service Theories and Healing Leadership of Florence Nightingale and Hildegard Peplau: Their Central Importance for Military Psychiatric Nurse Practitioner Education *Journal of Health and Human Behavior*, VII(1), XX-XX.

Chan, E. W., Krull, H., Ahluwalia, S., Broyles, J., Waxman, D.A., Gurvey, J., Colthirst, P., **Schimmels, J.** & Marinos, A. (2020). Options for maintaining deployment clinical proficiency during peacetime. *RAND Arroyo Center*: Santa Monica, CA

Wysocki, K., & **Seibert, D.** (2020). Genomics of aging: Genes, adducts, and telomeres. *Journal of the American Association of Nurse Practitioners*, 32(6), 419-422

Seibert, D., Keller, N., Zapor, L & Archer, H (in press). Military transgender care, *Journal of the American Association of Nurse Practitioners*.

Seibert, D. (in press). Genomics in nursing education, *Journal of the American Association of Nurse Practitioners*.

Presentations

Webinar: **Lewis, T., Schimmels, J., & Owen, R.** (October, 2020). Caring for the pharmacy workforce: Wellness strategies for the pharmacy team. American Society of Health Systems Pharmacists (ASHP) Resources

Podium: **Lewis, T. & Schimmels, J.** (October 2020). Tele-Behavioral Health: Development and Implementation of a Psychiatric Nurse Practitioner Run Clinic. *34th Annual American Psychiatric Nurses Association (APNA)*. Virtual Event.

Podium: **Schimmels, J.** (October 2020). It's Not the Size that Matters, It's How You Treat It: Updates in Trauma Treatment. *34th Annual American Psychiatric Nurses Association (APNA)*. Virtual Event.

Webinar: **Owen, R., Lewis, T., & Schimmels, J.** (September, 2020). Caring for the pharmacy workforce: Wellness strategies for the student pharmacist. *American Society of Health Systems Pharmacists (ASHP) Resources*.

Podium: **Romano, C.A.** (October 2020). An Innovative, Integrated Curriculum for Operational Readiness". *American Association of Colleges of Nursing Annual Academic Leadership Conference*. Virtual Event.

Webinar: **Schimmels, J., Owen, R., & Lewis, T.** (August, 2020). Caring for the pharmacy workforce: Wellness strategies for the leader. *American Society of Health Systems Pharmacists (ASHP) Resources*.

Podium: Landoll, R., Goodie, J., McClenen, R., **Schimmels, J., Lewis, T.** & Garza, J. (August, 2020). Ready Psychologist One: Simulation Experiences as Learning in High-Stakes Education. Joint Interprofessional Combat Operational Stress Control Training: Operation Bushmaster. *2020 American Psychological Association Annual Conference, Division 19*. Virtual Event.

Symposium: **DeLeon, P. H. Bajjani-Gebara, J., Schimmels, J., Owen, R.,** Landoll, R., Vaughan, C., Liew, K. S., Bristow, J., McLemore, P. (August 2020). The PIG's Second Birthday: Evolution and Sustained Implementation of the Interdisciplinary Psychopharmacology Interest Group (PIG). *128th A.P.A. Convention*. Washington DC. Virtual. (Accepted but not presented due to COVID-19 Pandemic).

Webinar: **Moore, C.** (2020). Acupuncture and acupressure for the military perioperative arena. Association of Military Surgeons of the United States 129th Annual Meeting-Virtual.

Poster: **Owen, R. & Williams, J.** Look Who's Back: The Journey of Critical Thinking, *AANP* 2020

Webinar: **Rodriguez, J.,** Romito, K. (October 1, 2020), Evidence-based Methods for Sterility and High Level Disinfection Assurance: The Path to High Reliability. *DHA Clinical Community Speaker Series*

Manpower

- Five Administrative vacancies: Three filled with contractors, two positions advertised.
- Five faculty vacancies: two in the interviewing/selection process.
- Diversity and Inclusion initiatives addressed enhancements and expanded faculty and student membership to the Civility and Inclusion Committee. Actions included open dialogue sessions with the Dean and an external assessment to identify areas of improvement and develop initiatives to enhance the work environment.

Supplement

Tab 34

Postgraduate Dental College

Uniformed Services University of the Health Sciences Board of Regents

Board Brief

Submitted by: Thomas R. Schneid, DMD, MS Date: October 9, 2020

Title & Department: Executive Dean, Postgraduate Dental College (PDC) Phone: 210-299-8506

Purpose: Information X Action

Subject: PDC Executive Dean's Report

Significant Issues:

1. Update on graduation progress/status for Class of 2021 due to COVID

Research: Audit conducted on progress/delays/anticipated setbacks. Minimal modification has been required for a few students, however all are on-track for timely completion.

Clinical activity: Operating at 70-100% of pre-pandemic levels, depending on location.

Didactics: Minimal use of Distance Learning with most returning to face to face instruction. Exceptions are that didactics using outside collaborations are being conducted virtually.

Anticipated Class of 2021 Graduation: No delays anticipated at this time.

2. Accreditation: Commission on Dental Accreditation (CODA):

- Final reports were received from the Commission on Dental Accreditation (CODA) for Site Visits conducted in late 2019 and 2020. Due to the COVID-related postponement of the Ft Gordon Site Visit, there were no Master of Science (MS) degree residencies reviewed. Review of the 3 Ft. Gordon residencies are now tentatively scheduled for August of 2021. Affiliated PGY-1 military certificate programs at Joint Base Langley-Eustis, Eglin AFB, Travis AFB, Wright Patterson AFB, 2nd Dental Battalion Naval Dental Clinic/Le Jeune, and Naval Dental Center/Hospital San Diego all were granted the highest accreditation status of "approval without reporting requirements" with next visits planned in 7 years.

- The PDC continued to collect education outcomes data, with results for FY 2020 reported in Attachment 1. The historical data illustrate CODA accreditation results, graduation rate, and written board pass rates for the PDC MS degree program. Of note: 1) All PDC-affiliated military Graduate Dental Education residencies have maintained a perfect record (100%) of achieving CODA's highest accreditation rating. 2) The PDC has a cumulative 93% graduation rate since 2010. Of the 547 graduates, only 4 students required additional time to complete

program requirements, resulting in a 99.9% on-time graduation rate. 3) Since 2015, PDC graduates demonstrated a cumulative first-time written board exam pass-rate of 94%.

- CODA issues of note include: 1) The same accreditation flexibilities that were extended to the class of 2020 were granted to the class of 2021. Input from the constituent Review Committees will be considered before decisions on potential additional modifications are made. 2) Site Visits: The commission is planning to conduct site visits in 2021. Although they prefer face-to-face over virtual visits, the end result will most likely be a hybrid. 3) The Executive Dean plans to attend a virtual CODA Hearing on Standards on October 20, 2020.

3. Student and Faculty Update:

- Postgraduate Dental College faculty and residents supported a number of Deployments, Humanitarian Assistance and Community Service events during the previous fiscal year. (See Attachment 2) In addition, significant faculty and resident participation in Leadership (See Attachment 3) and Interprofessional Education/COVID-19 Pandemic Response activities (See Attachment 4) are listed in the designated attachments.

- Dental Faculty Development 1 – *Introduction to Graduate Teaching 2020* is currently being conducted. This Distribute Learning opportunity is offered on Sakai to all non-billeted PDC faculty and consists of 7 modules. The course focuses on practical applications of principles learned from the prerequisite course, *Getting Started in HPE*, conducted by the USU Center for Health Professions Education (HPE). Course faculty include partnerships between the PDC, the Department of Education and Technology Innovation, and the Office of General Counsel.

4. Research Activities of Note:

- The following items of significance are reported for fiscal year 2020: Manuscripts/Abstracts Published or Submitted/Accepted for Publication (101), Presentations (128), and Awards (25). (See Attachment 5)

- The PDC successfully pursued a dedicated dental breakout session at the 2020 Military Health System Research Symposium. Eight podium presentations and nine poster presentations were selected for the 2020 annual session. The on-site program was cancelled due to COVID-19 pandemic concerns. As a result, the 2020 session was offered in an alternative (i.e., electronic/virtual) format, with the dental abstracts included.

- The Executive Dean and the Associate Dean for Dental Research (ADDR) met with the Deputy Chief, Combat Mortality Prevention Division of the US Army ISR to discuss capability gap driven research collaboration ideas with emphasis in the area of Teledentistry.

- A Charter for The San Antonio Military Medical Research Leaders Consortium (SAMMRL) was recently signed. The Consortium is open to all San Antonio regional DoD research laboratories, federal training and education organizations, Veterans Affairs and other federal agencies. The USU Southern Regional Campus is a recognized member. Meetings, attended by the ADDR, are held quarterly and should expand research opportunities for the PDC.

5. Tri-Service Center for Oral Health Studies (TSCOHS) update:

- TSCOHS members presented and attended the Council of Centers Directors Forum in August using the virtual format.

- TSCOHS participated in the Lunch and Learn initiative being carried out by Dr. Roopa Biswas at USUHS. It provided an overview of the Center as well as research capabilities and opportunities for students and residents should they be interested in oral health research.

- TSCOHS faculty mentored or facilitated 2 Dental Public Health residents on their Masters' research, resulting in 3 manuscripts being accepted for publication in *Military Medicine*.

6. Following the postponement of the 2020 Federal Services Dental Educators' Workshop due to COVID-19, planning is now underway for the 2021 session. It is tentatively planned to be held at the USU from April 13-15, however an alternative virtual format is being considered if needed. The Air Force is the host Service. The meeting focus will be developing and implementing plans for shared curricula. Additional emphasis will be placed on faculty development training, as well as collaboration and considerations for integration/resource sharing among the expected 80-100 Army, Navy, Air Force, VA, and Public Health Service dental educator attendees that are predominantly USU faculty.
7. The Executive Dean and the three Service Postgraduate Dental School Deans will attend the annual 2020 American Dental Education Association Deans Conference and participating in the Council of Deans meeting. The meeting will be held virtually during the month of November. The theme of the meeting is *Disruption: Implications for Oral Health Education*.

Current & Future Concerns:

Funding/Budget Estimate/Fiscal Impact:

Staffing Impact:

Board Action Requested:

Postgraduate Dental College (PDC) Outcomes (FY 2020)

1. Accreditation

Since 2013, all 21 Graduate Dental Education (GDE) residencies within the USU PDC MS in Oral Biology degree program underwent successful site visits from their programmatic accrediting agency, the Commission on Dental Accreditation (CODA). All residencies (100%) earned the accreditation rating of “Approval, without reporting requirements” for a full 7 year term.

Due to the COVID-related postponement of the Ft Gordon Site Visit, there were no Master of Science (MS) degree residencies reviewed during this fiscal year. Review of the three Ft. Gordon residencies are now tentatively scheduled for August of 2021.

Note 1: Two GDE residencies, Comprehensive Dentistry and Endodontics within the Air Force Postgraduate Dental School at Keesler AFB, closed as of July 1, 2020. All accreditation notifications and Substantive Change Requests were completed with MSCHE and CODA. All enrolled students completed their course of study and received an MS Degree from USU prior to program closure. This leaves 19 military residencies currently affiliated with the PDC for the MS Degree program. As of July 1, 2020 Keesler AFB is no longer listed by MSCHE as an additional educational location for USU. There are now 6 locations for the PDC with 1 being the branch campus at the 59th Dental Training Squadron at JBSA Lackland.

2. Graduation Rate (2012-2020) – Masters of Science in Oral Biology Degrees earned

Graduation Year	# Admitted	# Withdrawals	# Graduates	Graduation %
2012	30	2	28	93
2013	48	5	43	90
2014	58	5	53	91
2015	64	7	57	89
2016	69	3	66	96
2017	73	3	70	96
2018	83	5	78	94
2019	80	6	74	93
2020	82	4	78	95
2021	80	3	77	-
2022	23	0	-	-
Cumulative	587	40	547	93

Note 1: Although the PDC was established in 2010, the first graduation was conducted in 2012.

Note 2: Of the 547 graduates of the PDC, only 4 required additional time for program completion for a 99.99% on-time graduation rate. All 4 delayed graduates completed program requirements and

earned their degree within 6 months of the scheduled program completion date (1 – 30 day delay, 1 – 70 day delay, 1 – 4 month delay, 1 – 5 month delay).

Note 3: Numbers in red may change and/or are not included in cumulative totals.

3. Written Board Certification Pass-Rate 2015-2019

Program	2015	2016	2017	2018	2019	2020	Cumulative
Comp Dentistry	23 of 28	13 of 14	24 of 26	24 of 28	25 of 28	30 of 35	139 of 159
Endodontics	8 of 8	13 of 13	11 of 11	17 of 17	16 of 16	16 of 16	81 of 81
Orthodontics	6 of 6	5 of 5	5 of 5	7 of 7	5 of 5	6 of 6	34 of 34
Orofacial Pain	3 of 3	1 of 1	1 of 2	NR	1 of 1	NR*	6 of 7
Oral Pathology	NR	1 of 1	NA	NA	1 of 1	NR*	2 of 2
Periodontics	3 of 3	4 of 4	7 of 7	3 of 3	4 of 4	4 of 4*	25 of 25
Prosthodontics	4 of 4	4 of 4	4 of 4	6 of 6	9 of 9	4 of 4*	31 of 31
Annual Total	47 of 52	41 of 42	52 of 55	57 of 61	61 of 64	60 of 65	318 of 339
Percentage	90%	98%	95%	93%	95%	92%	94%

Note 1: NR means results were not reported by the program.

Note 2: NA means there were no students scheduled to graduate from the program for that year.

Note 3: Results are reported for written portion of board examinations taken while students are enrolled in their respective program. Not all program locations require their students to take this examination as an outcome measure.

Note 4: Results in 2020 marked with * had delayed reporting, probably due to COVID-19.

Deployments/Humanitarian Assistance/Community Service

Maj Roberts (AFPDS USAFA, Assistant Professor of Comprehensive Dentistry) completed a 6-month deployment.

The NPDS Department of Oral and Maxillofacial Pathology established first of its kind MOA with the Office of the Armed Forces Medical Examiner. The faculty and residents completed 62 missions to Port Mortuary, Dover AFB in support of Forensic Operations, resulting in 117 postmortem dental examinations and identifications.

Lt Col Paula Morris (AFPDS Travis AFB, Assistant Professor of Comprehensive Dentistry) participated in a 3-month manning assist assignment to Misawa, Japan.

COL Lambert (APDS Ft Bragg Comprehensive Dentistry, Program Director and Assistant Professor of Comprehensive Dentistry), LTC Erik Reifensahl (Assistant Professor of Comprehensive Dentistry) and 5 Comprehensive Dentistry residents/PDC MS Degree students provided dental services during Mission of Mercy Charlotte, NC.

CPT K. Jordan Sawyers (APDS Ft Sill, AEGD12) received a Volunteer Service Ribbon for his service to the Lawton community by volunteering his time to provide free dental services as well as organizing volunteer opportunities for his fellow residents.

JBLM AEGD12 residents participated in Childrens' Dental Health Month by doing screenings at various locations around JBLM.

LTC Christopher (APDS Fort Bliss) Program Director and Assistant Professor of Comprehensive Dentistry and 8 residents participated in Colorado Mission of Mercy in Glenwood Springs, CO.

LCDR Jonathan Kolon (NPDS Portsmouth GPR, Program Director and Assistant Professor of Comprehensive Dentistry) provided public health dentistry to underserved residents of SW Utah.

NPDS Portsmouth GPR residents completed 9 mini-comprehensive cases on dependents that had no dental home, to make them dentally ready to go overseas.

NPDS Portsmouth GPR residents provided hospital care to 3 children with exceptional needs that were unable to attain care at their Pediatric Specialists office due to COVID.

Residents and faculty at the AFPDS Offutt AFB AEGD12

- Provided Community Outreach with 50+ oral cancer screenings at the local Retiree Appreciation Day
- Presented Oral Hygiene instructions at the Child Development Center and local elementary schools for National Children's Dental Health month, reaching 250+ children

Leadership

Leadership - Military

Surgeon General Consultants/Specialty Leaders (42)

Col Casey Campbell (AFPDS, Adj Assistant Professor) – Clinical Dentistry, Periodontics
 Col Wen Lien (AFPDS, Assistant Professor) – Biomaterials
 Col Michael Crabtree (AFPDS, Assistant Professor) – Endodontics
 Lt Col Mitzi Palazzolo (AFPDS, Associate Professor) – Forensic Dentistry
 Col James Knowles (AFPDS, Associate Professor) – General Dentistry
 Col Jay Graver (AFPDS, Associate Professor) – Graduate and Continuing Education
 Lt Col Fred Krey (AFPDS, Associate Professor) – Hospital Dentistry
 Lt Col Kimberly Grady (AFPDS, Assistant Professor) – Infection Control/Patient Safety
 Col Daniel Savett (AFPDS, Assistant Professor) – Dental Materials and Devices Investigations
 Lt Col Sarra Cushen-Corker (AFPDS, Assistant Professor) – Maxillofacial Prosthetics
 Col David Klingman (AFPDS, Associate Professor) – Oral and Maxillofacial Pathology
 Col Teresa Reeves (AFPDS, Associate Professor) – Oral and Maxillofacial Radiology
 Col Richard Townsend (AFPDS, Associate Professor) – Orofacial Pain
 Col Brian Penton (AFPDS, Associate Professor) – Orthodontics
 Col John Kersey (AFPDS, Assistant Professor) – Pediatric Dentistry
 Lt Col Scott Irwin (AFPDS, Assistant Professor) – Dental Public Health
 Dr. Kraig Vandewalle (AFPDS, Professor) – Research
 Col Michael Webb (AFPDS, Associate Professor) – AEGD1
 CDR Laleh Abdolazadeh (NPDS, Associate Professor) – Prosthodontics
 CAPT Lewis Carpenter (NPDS, Assistant Professor) – Maxillofacial Prosthetics and Dental Implants
 CAPT Richard Adcock (NPDS, Awaiting Faculty Appointment) – Operative Dentistry
 CDR Daniel Honl (NPDS, Assistant Professor) – Oral and Maxillofacial Surgery and ACP Exodontia
 CAPT Istvan Hargitai (NPDS, Professor) – Orofacial Pain
 CAPT Sabina Yun (NPDS, Assistant Professor) – Pediatric Dentistry
 CDR Barak Wray (NPDS, Assistant Professor) – Laser Dentistry
 CDR Nicholas Hamlin (NPDS, Professor) – Dental Research
 CDR Jayson Huber (NPDS, Adj Assistant Professor) – Comprehensive Dentistry & ACP General Dentistry
 CAPT Steve Matis (NPDS, Adjunct Assistant Professor) – Dental Public Health
 CAPT Nancy Osborne (NPDS, Adjunct Assistant Professor) – Endodontics
 CAPT Bradley Jones (NPDS, Associate Professor) – Oral & Maxillofacial Pathology & Forensic Odontology
 CDR Gregory Ringler (NPDS, Assistant Professor) – Oral & Maxillofacial Radiology
 CDR William Anderson (NPDS, Assistant Professor) – Orthodontics
 CAPT John Wilson (NPDS, Assistant Professor) – Periodontics
 CDR Katherine Cheng (NPDS, Assistant Professor) – PGY1 Programs
 COL Peter Guevara (APDS, Professor) – Corps Specific Branch Proponency Officer
 COL Paul Colthirst (APDS, Assistant Professor) – Dental Public Health
 LTC (P) Daniel Kersten (APDS Associate Professor) – Endodontics
 COL Lisa Yarbrough (APDS Associate Professor) – General Dentistry - Comprehensive
 LTC Alex Smith (APDS Assistant Professor) – Orofacial Pain
 COL Thomas Stark (APDS Associate Professor) – Pediatric Dentistry
 COL Robert Herold (APDS Associate Professor) – Periodontics
 COL Cynthia Aita-Holmes (APDS Assistant Professor) - Prosthodontics

Command Assignments

LTC Brian Stancoven (APDS Schofield Barracks, Assistant Professor of Periodontics) served as the acting commander, DENTAC Hawaii, June-Nov 2020.

Lt Col Erin Speier (AFPDS, Assistant Professor of Orthodontics) served as the Interim Squadron Commander for the 59th Dental Training Squadron from Apr-Jun 2020.

Col Danny Wong (AFPDS Nellis AFB, Associate Professor of Periodontics) is the Squadron Commander.

Presidential Dental Support Team

CAPT Michael Rudmann (NPDS Assistant Professor of Comprehensive Dentistry) served on the Presidential Dental Support Team where he provides dental care to White House leadership and personnel stationed at the Naval Support Facility Thurmont.

CAPT Andrew Avillo (NPDS) is assigned as Director of the Presidential Dental Support Team where he serves as the dentist for the POTUS and First Family and Camp David.

CAPT Stephen Yune (NPDS) is assigned to the Presidential Dental Support Team where he provides dental care to White House leadership and personnel stationed at Naval Support Facility Thurmont.

LCDR Marina Hernandez-Feldpausch (NPDS) is assigned to the Presidential Dental Support Team where she provides dental care to White House leadership and personnel stationed at Naval Support Facility Thurmont.

CDR Daniel Honl (NPDS, Assistant Professor of Oral and Maxillofacial Surgery) is assigned to the Presidential Dental Support Team where he provides dental care to White House leadership and personnel stationed at Naval Support Facility Thurmont.

Other Accomplishments

LTC Matthew Phillips (APDS Assistant Professor of Endodontics) - President of the Army Association of Endodontics.

LTC Richard Standage (APDS Assistant Professor of Comprehensive Dentistry) was inducted into the Order of Medical Military Merit (O2M3).

LCDR Marina Hernandez-Feldpausch (NPDS Assistant Professor of Comprehensive Dentistry) served as a member of the Navy Professional Review Board. Evaluated 51 candidates for entrance into the USN Dental Corps via HPSP, HSCP, and Direct Commission Programs.

LTC Mark Church (APDS JBLM and Assistant Professor of Orthodontics) served as the Officer in Charge of Dental Clinic #3.

CAPT Calvin Suffridge (NPDS Associate Professor of Endodontics) is the President of the US Navy Association of Endodontists.

CDR John Neal (NPDS Assistant Professor of Endodontics) is the Secretary of the NPDS Faculty Forum and the Vice President of the US Navy Association of Endodontists.

CAPT Nancy Osborne (NPDS Adjunct Assistant Professor of Endodontics) is the Secretary of the US Navy Association of Endodontists.

CDR Daniel Honl (NPDS Assistant Professor of Oral and Maxillofacial Surgery) serves as a Board Member, BUMED Trauma Advisory Board and as an Advisor, DHA Knowledge, Skills, and Assessments (KSA) Development.

LCDR James Hawkins (NPDS, Associate Professor of Orofacial Pain)
- Quality Assurance & Patient Safety Dental Advisor, NPDS & WRNMMC
- WRNMMC Joint Commission Command Tracer Team

CDR Keith Merchant (NPDS Associate Professor of Periodontics) served as the President of the NPDS Faculty Forum.

CDR Nicolas Hamlin (NPDS Professor of Dental Research) serves as the NML&PDC Human Research Protection Program POC, alternate contact. He also serves as a Voting Member, WRNMMC IRB.

Dr. Jeffrey Kim (NPDS Associate Professor of Research) serves as a Voting Member, WRNMMC IRB.

LCDR Jonathan Kolon (NPDS, Portsmouth GPR, Assistant Professor of Comprehensive Dentistry)
- Completed Joint Professional Military Education I.
- Serves as Vice Chair of the Professional Development Committee that coordinates the LEAD/DEVELOP curriculum for interns and residents
- Served as interim Medical Executive Committee representative.
- Served as interim Professional Practice Evaluation Committee representative.
- Serves as representative to the Credentials Review Committee.

Dr. Kraig Vandewalle (AFPDS Lackland Professor of Comprehensive Dentistry)
Chairman, 59 Dental Training Squadron Dental Research Function
Deputy Chairman, 59th Medical Wing (MDW) Institutional Review Board
Senior Director, Science and Technology Office, WHASC
Chairman, AF Dental Research Working Group
Member, 59 MDW Science Advisory Committee & 59 MDW Human Research Protection Program.

USU Committee Service

Dr. Drew Fallis, PDC Associate Dean for Faculty Affairs, serves on the following USU Committees:

USU Strategic Planning Committee – Leadership Pillar
USU Strategic Planning Committee – Education Pillar
USU Registrar Coordination Committee
USU Distributed Learning Working Group
USU SOM 1100A Working Group

Dr. Rod Phoenix, PDC Associate Dean for Dental Research serves on the following USU Committees:

USU Pandemic Campaign Plan Planning
USU Return to Research Planning
USU AMSUS Planning Committee

COL Lisa Yarbrough (APDS Associate Professor of Comprehensive Dentistry): Senator, USU Faculty Assembly and Chair, Faculty Senate Diversity and Inclusion *Ad hoc* Committee.

Lt Col Nathan Krivitzky (AFPDS Wright Patterson AFB Associate Professor of Comprehensive Dentistry) Senator, USU Faculty Assembly.

LCDR James Hawkins (NPDS Associate Professor of Orofacial Pain): Senator, USU Faculty Assembly.

Col Michael Wajdowicz (AFPDS Professor of Comprehensive Dentistry): Chair, AFPDS and Chair, PDC Committee on Appointments and Promotions.

Col Michael Apicella (APDS Professor of Endodontics): APDS Chair and PDC Committee on Appointments and Promotions.

CDR Nicholas Hamlin (NPDS Professor of Dental Research): NPDS Chair and PDC Committee on Appointments & Promotions.

CDR John Neal (NPDS Assistant Professor of Endodontics): Member, Human Anatomical Review Committee.

LTC Joseph Dutner (APDS Assistant Professor of Endodontics): Senator, USU Faculty Assembly.

LCDR Jonathan Kolon (NPDS, Portsmouth GPR, Assistant Professor of Comprehensive Dentistry): appointed adjunct member Comparability & Faculty Welfare Committee, USU Faculty Assembly.

Lt Col Cade Salmon (AFPDS, Associate Professor of Prosthodontics):
Chair, AFPDS Curriculum Committee
Member, AFPDS Committee on Academic Promotion

COL Ryan Snyder (APDS Associate Professor of Orthodontics, with duties at AFPDS): Chair, AFPDS Academic Admissions Committee.

LTC Alexander Smith (USA Assistant Professor of Orofacial Pain, with duties at NPDS): Member, Learning Resources Center Advisory Committee.

Leadership – Education

American College of Dentists Fellowship – 18 Current PDC Faculty

Other Notable Accomplishments

Dr. Drew Fallis, PDC Associate Dean for Faculty Affairs:

- Serves as an Examiner for the American Board of Orthodontics (ABO)
- Appointed to serve as a Written Section Editor for the new scenario-based clinical exam.
- Has progressed in the USU PhD in HPE program with completion of 13 formal courses and 2 practicums in support of curriculum requirements. He received approval of his PhD dissertation to conduct research into the educational domains, competencies, and entrustable professional activities (EPAs) of military dental educators.

LTC Eric Reifentahl (APDS Assistant Professor of Comprehensive Dentistry) achieved certification from the American Board of Dental Sleep Medicine.

LCDR Marina Hernandez-Feldpausch (NPDS Assistant Professor of Comprehensive Dentistry) was selected USN Dental Corps Delegate to the American Dental Association's House of Delegates and Federal Dental Services Board.

CDR John Neal (NPDS Assistant Professor of Endodontics) is the President of the Edward C. Pennick Endodontic Study Club.

CAPT Nancy Osborne (NPDS Adjunct Assistant Professor of Endodontics) is the Secretary of the Edward C. Pennick Endodontic Study Club.

LTC Alex Smith (APDS Assistant Professor of Orofacial Pain) served as an Academy of General Dentistry Fellowship Review Exam Instructor. He also achieved fellowship status American College of Dentists.

LCDR James Hawkins (NPDS, Associate Professor of Orofacial Pain)
American Board of Orofacial Pain oral board examiner
Co-Chair, American Academy of Orofacial Pain "Resident & Academic Training" committee
Founding Member, American Academy of Orofacial Pain "Mentorship" committee
Member, Board of Directors – American Board of Orofacial Pain
Member, Board of Directors – American Board of Dental Specialties

CAPT Anton Petrich (NPDS Associate Professor of Prosthodontics)
Serves as a member of the American Academy of Fixed Prosthodontics Credentialing Review Committee
Serves as a member of the American College of Prosthodontic Review Committee for the mock written board exam

Lt Col Cade Salmon (AFPDS Lackland Associate Professor of Prosthodontics)
Elected President, Texas Section, American College of Prosthodontists
Member, American College of Prosthodontists Committee to the American Board of Prosthodontists

Maj Ryan Sheridan (AFPDS Lackland Associate Professor of Prosthodontics)
Director, American College of Prosthodontists for Region 6 (Federal Services)
Task Force member, Recertification Committee for Specialty of Prosthodontics
Inducted as Member of American Academy of Restorative Dentistry

Maj Angela Synatzske (AFPDS Assistant Professor of Periodontics) serves as a member of the Southwest Society of Periodontists Scientific Affairs Committee.

Maj Preston Duffin (AFPDS Assistant Professor of Orofacial Pain) was appointed as an Examiner to the American Board of Orofacial Pain (ABOP).

Col Gerry Whisler (AFPDS Langley AFB, Associate Professor of Comprehensive Dentistry) was reappointed to the Academy of General Dentistry's Fellowship Examination Committee. He was also reappointed as a contributing editor to Merck manuals.

Col Michael Webb (AFPDS Offutt Associate Professor of Comprehensive Dentistry) serves on the Commission on Dental Accreditation Review Committee for Advanced Education in General Dentistry, GPR, Dental Anesthesia, Oral Medicine, Orofacial Pain.

Lt Col Nicholas DuVall (AFPDS Eglin AFB, Professor of Comprehensive Dentistry) was elected to the Board of Directors, American Board of General Dentistry, Standardized Oral Treatment Plan Examiner.

Lt Col Christopher Nuttall (AFPDS Travis AFB, Associate Professor of Comprehensive Dentistry) serves as one of only two AF delegates to the American Dental Association.

Col Richard Townsend (AFPDS Lackland Associate Professor of Orofacial Pain) serves on the American Board of Orofacial Pain Board of Directors.

Journal Review (13 reviewers/15 journals/6 Editorial Review Boards)

Dr. Drew Fallis (AFPDS Professor of Orthodontics) has been invited to serve as a reviewer for the journals *Angle Orthodontist* and the *Journal of Orofacial Orthopedics*

Dr. Rod Phoenix (AFPDS Professor of Prosthodontics) is a reviewer for *Military Medicine*

Dr. Thomas Schneid (AFPDS Professor of Comprehensive Dentistry) is a reviewer for *Military Medicine*

Dr. John Schmidt (NPDS Associate Professor of Orofacial Pain) serves on the Editorial Review Board for the Journal, *Pain Medicine*.

Dr. Richard Adcock (NPDS, Awaiting Faculty Appointment, Operative Dentistry) serves on the Editorial Review Board for the *Journal of Operative Dentistry*.

LCDR James Hawkins (NPDS, Assistant Professor of Orofacial Pain) serves as a reviewer for the journal, *Pain Medicine*.

Maj Angela Synatzske (AFPDS, Assistant Professor of Periodontics) serves as a reviewer for the *Journal of Military Medicine*.

Lt Col Dimitri Villarreal (AFPDS, Assistant Professor of Periodontics) serves as a reviewer for the *Journal of Military Medicine*.

Lt Col Nicholas DuVall (AFPDS Eglin Professor of Comprehensive Dentistry) serves as a reviewer, *Operative Dentistry* and the *Journal of Esthetic and Restorative Dentistry*.

Lt Col Jarom Ray (AFPDS Lackland Professor of Endodontics) serves on the *Journal of Endodontics* Scientific Advisory Board.

Col Michael Apicella (APDS Professor of Endodontics) serves on the *Journal of Endodontics* Scientific Advisory Board.

Dr. Timothy Kirkpatrick (AFPDS Adjunct Professor of Endodontics) serves on the *Journal of Endodontics* Scientific Advisory Board.

Lt Col Aaron Harding (AFPDS Lackland Assistant Professor of Prosthodontics) was appointed to the Editorial Review Board, *Journal of Prosthodontics*.

Commission on Dental Accreditation Site Visitors (5)

CAPT Andrew Aвило (NPDS) – PGY-1 Programs

LCDR Marina Hernandez-Feldpausch (NPDS) – AEGD Programs

LTC Alex Smith (APDS) – Orofacial Pain

Col Gerry Whisler (AFPDS) – PGY-1 Programs

Lt Col Christopher Nuttall (AFPDS) – PGY-1 Programs

Resident Research Projects Mentored

Dr. John Schmidt (NPDS, Associate Professor of Orofacial Pain) supervised 11 residents in the following programs: Comprehensive Dentistry (8), Oral Pathology (1), Orofacial Pain (2).

CAPT Andrew Aвило (NPDS, Associate Professor of Comprehensive Dentistry) serves as principle or associate investigator in 6 student research projects.

CAPT Stephen Yune (NPDS, Assistant Professor of Comprehensive Dentistry) serves as associate investigator on research for 4 senior residents and 3 junior residents.

LCDR Marina Hernandez-Feldpausch (NPDS, Assistant Professor of Comprehensive Dentistry) serves as associate Investigator on research projects for four comprehensive dentistry residents.

CAPT Calvin Suffridge (NPDS, Associate Professor of Endodontics) supervised 1 resident and served as an Associate Investigator for 4 residents.

CDR John Neal (NPDS, Assistant Professor of Endodontics) supervised 2 residents and served as an Associate Investigator for 2 residents.

CAPT Nancy Osborne (NPDS, Adjunct Assistant Professor of Endodontics) supervised 1 resident and served as an Associate Investigator for 1 resident.

CDR Andrea Lisell (NPDS, Assistant Professor of Endodontics) served as an Associate Investigator for 3 residents.

CAPT Steve Hargitai (NPDS, Professor of Orofacial Pain) served as an Associate Investigator for 1 resident.

LTC Alex Smith (NPDS, Assistant Professor of Orofacial Pain) served as an Associate Investigator for 2 residents.

LTC James Hawkins (NPDS, Associate Professor of Orofacial Pain served as an Associate Investigator for 2 residents.

CDR Nicholas Hamlin (NPDS, Professor of Dental Research) served as the Principle Investigator for 4 residents and Associate Investigator for 1 resident.

Dr. Jeffrey Kim (NPDS, Associate Professor of Research) served as the Principle Investigator for 4 residents.

Dr. Glen Imamura (NPDS, Associate Professor of Research) served as the Principle Investigator for 7 residents.

Faculty Development

2020 Academy for Academic Leadership (AAL) Institute for Teaching and Learning (ITL) (Virtual)

Lt Col Nathan Krivitzky (AFPDS Wright Patterson AFB Associate Professor of Comprehensive Dentistry)

MAJ Nicholas Wilson (APDS, Schofield Barracks Comprehensive Dentistry, USU MS Oral Biology Class of 2017)

LCDR Marina Hernandez-Feldpausch (NPDS, Assistant Professor, Bethesda AEGD12 and USU MS Oral Biology Class of 2016)

Dr. Thomas Schneid, PDC Executive Dean (AFPDS, Professor of Comprehensive Dentistry) provided a virtual lecture on *Resident Remediation/Resident Due Process* to the following faculty at the APDS, Schofield Barracks:

COL Lisa Yarbrough, Program Director (APDS, Associate Professor of Comprehensive Dentistry)

LTC (P) Kelly Johnson

LTC Brian Stancoven, (APDS, Assistant Professor of Periodontics)

LTC Brandon Gage, (APDS, Assistant Professor of Comprehensive Dentistry)

LTC Jasmin de Guzman

MAJ Christopher Luevano, (APDS, Assistant Professor of Pediatric Dentistry)

Dr. Drew Fallis, PDC Associate Dean for Faculty Affairs (AFPDS, Professor of Orthodontics) provided faculty development lectures (*Optimizing Learning Climates and Sakai Course Development*) attended by the following faculty from the Comprehensive Dentistry residency at the APDS, Ft Hood:

COL Thomas Sympson, (APDS, Assistant Professor of Orthodontics)

MAJ John Kreider, (APDS, Assistant Professor of Comprehensive Dentistry)

MAJ Drew Krena, (APDS, Assistant Professor of Prosthodontics)

MAJ Joseph Capetillo

MAJ Josh Gailey

MAJ Michael Segall, (APDS, Assistant Professor of Orthodontics)

LTC Joseph Dutner, Program Director (APDS, Ft Gordon, Associate Professor of Endodontics) is enrolled as a student in the USU Masters in Health Professions Education program.

APDS Faculty at JBLM AEGD12 program, LTC Mark Church (Assistant Professor of Orthodontics), MAJ Cori McClatchey (Assistant Professor of Comprehensive Dentistry, and LTC Ben McGovern (Assistant Professor of Comprehensive Dentistry) participated in or are currently enrolled in Faculty Development courses.

COL Pete Guevara, Dean APDS and Professor of Comprehensive Dentistry, provided faculty development training on *Active Learning; Direct Observation, and Narrative Assessments; Role Modeling* to the AEGD12 and Oral Surgery faculty at Fort Bliss.

CDR Nicholas Hamlin (NPDS Professor of Dental Research) Course development: Research Methods I (NPDS 263), Sakai course material developed, collated, and maintained to complement the lecture and discussion-based format class material that has been provided traditionally. Fully online module on academic plagiarism (what it is, how to avoid it, and how to detect it) developed to provide additional guidance and reference material that has not been previously offered in the curriculum. In addition, he delivered 3 faculty development lectures:

Plagiarism. Faculty Development Workshop, Naval Postgraduate Dental School.
Academic Plagiarism. USUHS Faculty Development presentation (DL and Face to face).
(Over)confidence and the case for critical thinking. NPDS Faculty Retreat.

Lt Col Jelena Seibold (AFPDS Assistant Professor of Endodontics) completed the following USU Faculty Development Courses:

Using Reflection in Medical Education (7033)
 Fortify Your Learning Climate (7082)
 SUPER Framework for Guiding a Residents QI Plan (9020)
 Interviewing Tips – What to Ask, What not to Ask (8053)

Maj Francisco Gallardo (AFPDS Assistant Professor of Prosthodontics) completed USU Faculty Development Courses in *Role Modeling, Active learning, Milestone and EPAs, Direct Observation. Small Group teaching, Learning Climate, Narrative Assessment, Precepting, Poster Creation.*

Col Mike Wajdowicz and Lt Col Nicholas DuVall (AFPDS Professors of Comprehensive Dentistry) were awarded scholarships by the American Dental Association Council on Dental Education and Licensing to attend the virtual course given by the Academy of Academic Learning's Institute for Teaching and Learning.

Col Gerry Whisler (AFPDS Langley AFB Associate Professor of Comprehensive Dentistry), Col Corey Anderson (AFPDS Langley AFB Assistant Professor of Periodontics), Lt Col Emily Ibarra (AFPDS Langley AFB Assistant Professor of Comprehensive Dentistry, and Maj Saiprasad Zemse (AFPDS Langley AFB Assistant Professor of Periodontics) attended the USU Faculty Foundations Courses held at Naval Medical Center Portsmouth earning a total of 48 credit hours.

Postgraduate Dental College – Dental Faculty Development I Course

Maj Ryan Sheridan (AFPDS Associate Professor of Prosthodontics)
 CAPT Richard Adcock (NPDS, Awaiting Faculty Appointment)
 Mark Church (APDS, Assistant Professor of Orthodontics)
 Maj Preston Duffin (AFPDS Assistant Professor of Orofacial Pain)
 Col Jay Graver (AFPDS Associate Professor of Prosthodontics)

CDR Nicholas Hamlin (NPDS Professor of Dental Research)
Lt Col Aaron Harding (AFPDS Assistant Professor of Prosthodontics)
Dr. Jeffrey Kim (NPDS Associate Professor of Dental Research)
LTC Jacob Kitson (APDS Assistant Professor of Orthodontics)
Maj Michael Kroll (APDS Assistant Professor of Comprehensive Dentistry)
Col Allan Parke (AFPDS Assistant Professor of Prosthodontics)
Col Daniel Savett (AFPDS Assistant Professor of Dental Materials/Research)
Lt Col Stephanie Stouder (AFPDS Assistant Professor of Prosthodontics)
CPT Patricia Walworth (APDS Assistant Professor of Prosthodontics)

USU School of Medicine Faculty Development Teaching Certificate Recipients

CDR Nicholas Hamlin (NPDS, Professor of Dental Research)
LCDR Jonathan Kolon (NPDS, Assistant Professor of Comprehensive Dentistry)
Col Jay Graver (AFPDS, Associate Professor of Prosthodontics)
Dr. Jeffrey Kim (NPDS, Associate Professor of Dental Research)
Lt Col Daniel Palazzolo (AFPDS, Associate Professor of Periodontics)
Lt Col James Renda (AFPDS, Assistant Professor of Comprehensive Dentistry)
Col Scott Malthaner (AFPDS, Associate Professor of Periodontics)
Lt Col John Thomas (AFPDS, Assistant Professor of Prosthodontics)
Maj Stephen Arnason (AFPDS, Assistant Professor of Comprehensive Dentistry)

USU Academic Leadership Course Graduates and Certificate Recipients

CDR Keith Merchant (NPDS, Associate Professor of Periodontics)

USU Certificate or Degree Track within the Center for Health Professions Education

COL Lisa Yarbrough – APDS
Col (retired) Drew Fallis – USU PDC
Lt Col Joseph Dutner – APDS
LCDR James Hawkins – NPDS

* 12 additional PDC faculty have completed or are enrolled in the *Getting Started in HPE* course

Interprofessional Education Activities

LCDR Marina Hernandez-Feldpausch (NPDS Assistant Professor of Comprehensive Dentistry) lectured on the topic of Forward Management of Dental Pain & Trauma to 200 USUHS medical students participating in the Military Contingency Medicine Course.

CDR Laleh Abdolazadeh (NPDS Associate Professor of Maxillofacial Prosthetics) served as the Program Director, Hospital Corpsman Maxillofacial Prosthetics L38A Technician Program.

Two NPDS and eight AFPDS JB Andrews PGY-1 Residents participated in triage, dental sick-call and mass casualty scenarios as part of USUHS field exercises in Ft. Indiantown Gap, PA. They worked shoulder-to-shoulder with USU School of Medicine students to complete 8 training modules over 5 days at the Military Field Practicum 101 Course at Fort Indiantown Gap in Lebanon, PA.

COVID 19 Pandemic Response

NPDS Portsmouth GPR program:

- Supported the USNS Comfort deployment to NYC.
- Staffed COVID testing area at NMRTC Portsmouth, 7 days a week.
- Staffed NMRTC Portsmouth Pharmacy during Comfort Deployment, 7 days a week.

Maj Ryan Sheridan (AFPDS Assistant Professor of Prosthodontics) assisted with COVID testing at JBSA Lackland.

Multiple AFPDS Faculty in all affiliated residency programs supplemented JBSA-Lackland COVID response efforts.

Maj Angela Synatzske (AFPDS Assistant Professor of Periodontics) serves as the Triage Team Chief for the 59th Medical Wing and in that capacity, she worked in supervising the COVID screening team at JBSA Lackland.

Maj Geoffrey Johnston (AFPDS Travis AFB, Assistant Professor of Prosthodontics) served as Point of Entry and PAX Terminal team lead during COVID-19 response. 6 Residents assisted the mission as Point of Entry and PAX Terminal team members, providing >45,000 COVID-19 screenings prior to entry into military facilities and after arrival of military flights at Travis AFB, CA.

Faculty and Students at Ft Bliss supported local COVID Operations in the following areas: Dental Clinic, WBAMC patient/staff screening, Pharmacy, & Army Public Health Nursing (APHN).

MAJ Steven Handel (APDS Ft Bliss and Assistant Professor of Prosthodontics) served as the Officer in Charge of the Army Public Health Nursing (APHN) COVID-19 Task Force.

All Commission on Dental Accreditation-required reports on "Interruption of Education due to COVID-19 for 2020 Graduates" that were submitted by PDC-affiliated military dental residencies were accepted without change. All residencies maintained the highest accreditation rating of "Approval without

reporting requirements". In addition, all had their next accreditation site visit dates delayed 1 year. Results were coordinated with the USU Assistant VP, Accreditation and Organizational Assessment.

Fort Gordon Periodontics Program

In response to COVID19 pandemic, developed and received approval of the following local Standard operating procedures:

Dental Exam, Radiology, Pre-screening, PPE, Safe Practice, Periodontics Aerosol Generating Procedure (AGP), Periodontics Non-AGP, and Testing.

During COVID19 pandemic, initiated 9 collaborative virtual seminars with US Air Force, US Navy, University of Maryland, Medical University of South Carolina, and Augusta University periodontics programs.

US Army Dental Corps CE Lectures Created and Posted Online Due to Inability to Present Face to Face at Fort Sill (APDS AEGD12)

CPT Akey: *Teledentistry & Orthodontic Care: Digital Treatment Planning for the Military Dentist*

CPT Dixon: *Single-Tooth Implant Restoration Using Digital Dentistry*

CPT Heitman: *Dentin Bonding: What Lies Beneath?*

CPT Khan: *Digital Esthetics*

CPT Kitchen: *Antibiotic Stewardship*

CPT Paek: *Implants v. Endodontics: Treatment Planning Endodontics and Implants*

CPT Sawyers: *3D Printing in a Theater of Operations: Mission Possible?*

CPT VanDercreek: *Sleep Apnea*

Between April and May 2020, 9 NPDS students and faculty participated in 16 national Endodontic Program Director-driven lecture continuing education opportunities offered through AAE virtual platform to supplement didactic education during COVID-19 restrictions.

CDR Daniel Honl served as a Subject Matter Expert for NPDS Virtual Academics during COVID-19 Pandemic:

- Organized training for Virtual Platform for Program Directors
- The virtual platform facilitated 427 hours of academics for more than 50 NPDS residents
- Advised and facilitated two short courses, Advanced Operative Dentistry and General Dentistry Treatment Planning, providing critical licensure continuing education to more than 140 federal service dentists.

NPDS Portsmouth GPR residents provided hospital care to 3 children with exceptional needs that were unable to attain care at their Pediatric Specialists office due to COVID.

PDC Publications, Presentations, Awards FY 2020

PUBLISHED MANUSCRIPTS (51)

Managing Antral Wall Discontinuities in Sinus Elevation Surgery

Joseph F. Capetillo, Thomas M. Johnson, Dane T. Swenson, Robert W. Herold
Clinical Advances in Periodontics, 2020 Feb. DOI: 10.1002/cap.10093.

Fracture Necrosis: A Risk Indicator for Tooth Loss

Dutner J, Herold R, Wilson J, Bunting M, Bullock J, Dunham D, Johnson T.
J Am Dent Assoc 2020; 151(6): 454-463.

Heat Generation Changes with Electrically Heated Pluggers After Multiple Autoclave Cycles at Different Operating Temperatures.

Correa M, Dutner J, Phillips M, Sidow S, McPherson J.
J Endod 2019; 45(12): 1529-1534.au.

Tratamento da infecção aguda bacteriana pós cirúrgica em elevação sinusal: Relato de caso

Johnson TM, Lincicum AR.
Braz J Implantol and Health Sci 2020; 2:52-62.

Decisions before incisions: technique selection for the distal wedge procedure

Johnson TM, Herold RW, Akers JA, DiPirro DA, Berridge JP.
Clin Adv Periodontics 2020; 10:94-102. (Cover article)

Rational prophylactic antibiotic selection for sinus elevation surgery

Akers JA, Johnson TM, Hill RB, Kawaguchi S.
Clin Adv Periodontics 2020; 10:42-55.

Focus on epithelialized palatal grafts. Part 3: Methods to enhance patient comfort at palatal donor sites

Berridge JP, Johnson TM, Cheng AW, Swenson DT, Miller PD.
Clin Advances Periodontics 2019; 9:177-184.

Frequency of adequate mesiodistal space and faciolingual alveolar width for implant placement at anterior tooth positions

Wilson JP, Johnson TM.
J Am Dent Assoc 2019; 150:779-787.

Focus on epithelialized palatal grafts. Part 2: Implant site development

Berridge JP, Johnson TM, Erley KJ, Hill RB, Lane JD, Schlam KK, Dunham DD, Miller PD.
Clin Adv Periodontics. 2019; 9:147-156.

*Identified by Wiley as one of the most downloaded articles in the twelve months following publication.

The extraction socket management continuum: a hierarchical approach to dental implant site development

Cheng AW, Berridge JP, McGary RT, Erley KJ, Johnson TM.

Clin Adv Periodontics 2019; 9:91-104. (Cover article)

The Tissue-Supported Sling Suture: Technique and Clinical Applications

RT McGary, TM Johnson, JP Berridge, JP Wilson, D Baron

Clinical Advances in Periodontics September 2020 Vol 10. No 3 pgs. 107-117.

Vital Pulp Therapy: Update on Partial Pulpotomy and Full Pulpotomy

Argraves K, Lisell A.

Clinical Update NPDS. Jul 2020, Vol. 42, No.2

The Effect of Corticosteroids and Nonsteroidal Anti-inflammatory Drugs on Anesthetic Success in the IANB and Post-op Pain

Clark J, Osborne N.

Clinical Update NPDS. Aug 2020, Vol. 42, No.3

Insomnia – Implications for the Dental Provider

Feng-Chiu H, Hawkins J, Schmidt J.

Clinical Update NPDS. Jun 2020, Vol. 42, No.1

Vital Pulp Therapy: Update on Indirect and Direct Pulp Caps

Hershey R, Neal J.

Clinical Update NPDS. Oct 2019, Vol. 41, No.5

The Effect of Screw Channel Angulation on Reverse Torque Values of Dental Implant Abutment Screws

Hu E, Petrich A, Imamura G, Hamlin C.

J Prosthodont; 2019 Dec; 28(9):969-972. doi: 10.1111/jopr.13111. Epub 2019 Oct 11.

Managing stress: Just start with the basics

Schmidt, JE.

The Navy Psychologist. 2019: Volume XI, pages 4-6.

Effect of Deep Margin Elevation on CAD/CAM-Fabricated Ceramic Inlays

Vertolli TJ, Martinsen BD, Hanson CM, Howard RS, Kooistra S, Ye L.

Oper Dent. 2020 Apr 3. doi: 10.2341/18-315-L. Online ahead of print

Non-Odontogenic Odontalgia Referred from the Temporal Tendon: A Case Report

Duffin P., Smith, A., Hawkins, J.M.

Journal of Endodontics: June 16, 2020DOI:<https://doi.org/10.1016/j.joen.2020.06.006>.

Trigeminal Neuralgia with Extra-Oral Trigger Zone Successfully Treated with Intra-Oral Botulinum Toxin Injections: A Case Report

Dinan, J., Smith, A., Hawkins, J.M.

Clin Neuropharmacol: 2020 Jun 30. doi: 10.1097/WNF.0000000000000399. Online ahead of print.

Entrustable Professional Activities in Postgraduate Orofacial Pain Programs

Hawkins, J.M., Heir, G., Okeson, J., Shaefer, J.

J Oral Facial Pain Headache: 2020 Summer; 34(3):255-264. doi: 10.11607/ofph.2640.

Orofacial Pain

Schmidt, J.E. & Hawkins, J.M.

In Malkovich-Fong, A. (Ed.), Handbook of Psychosocial Interventions for Chronic Pain: An Evidence-Based Guide: Routledge Publishing, 2019. ISBN 978-0-8153-7082-6.

The effect of simulated field storage conditions on dental restorative materials for military field use

Lemon DJ, Chen W, Smith T, Ford AA, Moffett SX, Hoyle JT, Hamlin NJ, Hwang YY.

Military Medicine. Published online: 26 Dec 2019. <https://doi.org/10.1093/milmed/usz425>.

Development of Dental Implantable Temperature Sensor for Real-time Diagnosis of Infectious Disease

Kim J, Stafford G, Beauchamp C, and Kim S.

Sensors (Basel). 2020 Jul; 20(14): 3953. Published online 2020 Jul 16. doi: 10.3390/s20143953

Effect of Various Surface Treatments on Ti-Base Coping Retention

Kemarly K, Arnason SC, Parke A, Lien W, Vandewalle KS.

Oper Dent. 2020 Jul 1; 45(4):426-434.

Assessing Flexural Strength Degradation of New Cubic Containing Zirconia Materials

Holman CD, Lien W, Gallardo FF, Vandewalle KS.

J Contemp Dent Pract 2020; 21 (2):114-118.

Effect of high-irradiance light curing on exposure times and pulpal temperature of adequately polymerized composite

Slack WE, Yancey EM, Lien W, Sheridan R, Phoenix R, Vandewalle K.

Dent Mater J. 2020 Jul 30. doi: 10.4012/dmj.2019-236.

A Survey of US Air Force General Dentists Regarding Computer-aided Design/Computer-aided Manufacturing Usage

Walker S, Kosaraju A, Lien W, Vandewalle KS.

J Contemp Dent Pract. 2020 Mar 1; 21(3):249-252.

Quality assurance: acceptance testing for digital dental intraoral sensors

Reeves TE, Lien W, Mah P.

Oral Surg Oral Med Oral Pathol Oral Radiol 2020 Apr; 129(4):388-400.

Bond strength of dual-cured resin cement used with dual-cured adhesives

Nelson-Hodges T, Kosaraju A, Arnason SC, Jessup JP, Vandewalle KS.

Gen Dent. 2020 May-Jun; 68(3):72-77.

An Investigation of the Effect of Modifying and Reusing Impression Copings on Transfer of Implant Analog Position and Angulation

Gallardo FF, Salmon CA, Lien W, Sheridan RR, Batzer RC, Vandewalle KS.

J Contemp Dent Pract. 2020 Mar 1; 21(3):220-226.

A Review of the United States Innovative Readiness Training Program: Operation Healthy Delta 2017

McWilliams PA, Kosaraju A.

Int Review of the Armed Forces Medical Services. 2020 Jun 93/2:32-36.

Targeted Endodontic Microsurgery and Endodontic Microsurgery: A Surgical Simulation Comparison

Hawkins T, Wealleans J, Pratt A, Ray J.

International Endodontic Journal May 2020; Volume 53:1-8.

Targeted Endodontic Microsurgery: Digital Workflow Options

Ray J, Giacomino C, Wealleans J, Sheridan R.

Journal of Endodontics June 2020; Volume 46:863-868.

Clinician-Centered Assessment of 3D-Printed Stents for Targeted Endodontic Microsurgery (TEMS)

Anderson J, Wealleans J, Ray J.

Endodontic Practice Spring 2020; Volume 13:10-16.

Shear Bond Comparison between 4 Bioceramic Materials and Dual-cure Composite Resin

Hursh K, Kirkpatrick T, Cardon J, Brewster J, Black S, Himel V, Sabey K.

J Endod 2019 Nov 3; 45(11):1378-1383

3D Printing Applications in Prosthodontics: Research, Clinical Reports and Techniques

Forrester, Sheridan. Research Republished in Wiley Compilation.

[https://onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)1532-849X.3D-Printing-Applications-in-Prosthodontics](https://onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)1532-849X.3D-Printing-Applications-in-Prosthodontics)

Dynamic Navigation for Implant Placement Surgery May be More Accurate than Freehand Placement and as Accurate as Static Guide Protocols

Oviatt, AJ, Sheridan, RR.

UTHSCSA CATs Library: <http://cats.uthscsa.edu>; 2019 Dec. (UTHSCSA CATs Library; vol. #3411).

Reported Postoperative Complication Rates Are Lower for Zygomatic Implants Than for Maxillary Sinus Floor Augmentation Surgeries

Janusz, C., Sheridan, RR.

UTHSCSA CATs Library: <http://cats.uthscsa.edu>; 2019 Dec. (UTHSCSA CATs Library; vol. #3402).

Effect of molar preparation axial height on retention of adhesively-luted CAD-CAM ceramic crowns.

Wake R, Buck R, DuVall N, Roberts H.

J Adhes Dent. 2019; 21(6):545-550.

A method of fabricating a chairside CAD-CAM radiographic and surgical guide for dental implants

DuVall N.

J Prosthet Dent 2020 Feb 3; S0022-3913(19)30757-7. doi: 10.1016/j.prosdent.2019.11.019. Online ahead of print

Endodontic access effect on full contour zirconia and lithium disilicate failure restorations

Mallya J, DuVall N, Brewster J, Roberts H.

Oper Dent May/Jun 2020; 45(3):276-285. doi: 10.2341/18-231-L. Epub 2020 Feb 13.

Properties of New Glass-Ionomer Restorative Systems Marketed for Stress-Bearing Areas

D Fuhrmann, D Murchison, S Whipple, K Vandewalle.

Oper Dent Jan/Feb 2020; 45(1):104-110. doi: 10.2341/18-176-L. Epub 2019 Sep 30

Mouthguards for the prevention of orofacial injuries in military and sports activities. Part 1: History of mouthguard use

Knapik JJ, Hoedebecke BL, Mitchener TA.
Journal of Special Operations Medicine 20(2):139-143, 2020.

Trigeminal Nerve Injuries

Ehland E, Meyer R, Bagheri S.
Published Aug 2020 in Complex Dental Implant Complications, Ed. Bagheri, S; Khan, H A; Stevens, M R.

VA/DoD Clinical Practice Guideline for the Primary Care Management of Headache

Hawkins J. (contributing author)
Version 1.0 – 2020

Cyclic Fatigue Resistance and Metallurgic Comparison of Rotary Endodontic File System

Weyh D, Ray J
Gen Dent. Jan-Feb 2020; 68(1):36-39.

Microtomographic Analysis of Resin Composite Core Material Porosity

Roberts H, Fuentealba R, Brewster J.
J Prosthodont
2020 Mar 17. doi: 10.1111/jopr.13167. Online ahead of print.

Flexural Performance of Direct Resin Composite Restorative Materials Past Expiration Date

Nagaoka H, Bishop S, Roberts H.
Eur J Dent 2020; 14:217–223

Methacrylate perspective in current dental practice

Bishop S, Roberts H.
Journal of Esthetic and Restorative Dentistry: 03 August 2020 <https://doi.org/10.1111/jerd.12633>

Effect of Deep Margin Elevation on CAD-CAM-Fabricated Ceramic Inlays

Vertolli TJ, Martinsen BD, Hanson CM, Howard RS, Kooistra S, Ye L.
Oper Dent 2020 Apr 3. doi: 10.2341/18-315-L. Online ahead of print.

PUBLISHED ABSTRACTS (22)

A Comparison of Single-Cone Obturation Quality and Sealer Waste between Three Sealer Application Techniques

Bryant S, Black S, Brewster J, Winward B.
J Endod April 2020; 46:e9 OR 33

Evaluation of Extra-canal Apical Tissue Pressure Generated by the GentleWave System Compared to Three Traditional Irrigation Devices

Rose J, Black S, Winward B, Brewster J, Sabey K.
J Endod April 2020; 46:e9 OR 34

The Effect of Smear Layer Removal on Endodontic Outcomes

Fleming A.

J Endod April 2020; 46:e9 OR 03

Outcome of Endodontically Treated Cracked Teeth

Lewis M.

J Endod April 2020; 46:e9OR04

Efficacy of Reference Object Calibration for Off Angle Radiography

Hershey R.

J Endod April 2020; 46:e9OR 32

Targeted Endodontic Microsurgery: Implications of the Greater Palatine Artery

Smith B.

J Endod April 2020; 46:e9 OR 37

Re-establishing Patency in Canals Obturated with Different Bioceramic Sealers using Various Techniques

Htet K, Dutner J, Phillips M.

J Endod April 2020; 46:e9 PR41

Assessment of Patients' Perceptions of CBCT and Endodontic Treatment

Burgos K, Dutner J, Phillips M.

J Endod April 2020; 46:e9 PR43

MTA Integrity Following Targeted Endodontic Microsurgery

Umbach J, Dutner J, Phillips M, Jones J.

J Endod April 2020; 46:e9 PR 45

A survey of decision making analysis when MB2 cannot be located in maxillary first molars

Massey M, Delgado S, Kersten D, Beltran T.

J Endod April 2020; 46:e9 PR 73

Evaluation of Retreatability of 3 Endodontic Sealers: AH Plus, EndoSequence BC Sealer, and HiFlow EndoSequence BC Sealer

Park K, Delgado S, Kersten D, Beltran T.

J Endod April 2020; 46:e9 PR 74

A Survey of Surgical Trends Among Military Endodontists

Rihani A, Kersten D, Delgado S, Beltran T.

J Endod April 2020; 46:e9 PR 75

Efficacy of Various Sterilization Techniques on Diamond-Coated Dental Burs

Wirth N, Henrichs L, Crabtree M, Savett D, Lien W, Vandewalle KS.

J Dent Res 2020, abstract #844.

Management of Dental Anxiety via Distraction Technique

Torres-Gomez J, Hoopes W, Arnason S, Vandewalle K.

J Dent Res 2020, abstract #1256.

Bond Strength of Resin Cements to Zirconia after Surface Treatments

Mehari KT, Parke A, Gallardo FF, Vandewalle KS.

J Dent Res 2020, abstract #1817.

Devising a Manpower Model from USAF Recruit Dental Needs

Knudson A, Irwin S, Vandewalle KS.

J Dent Res 2020, abstract #2840.

Comparative Evaluation of Cone Beam Computed Tomography (CBCT)

Bateman D, Lien W, Reeves T, Mah P, Yi W, Vandewalle K.

J Dent Res 2020, abstract #1893.

Fracture Strength of Titanium-based Implant Crowns

Vandewalle KS, DeReis S, DuVall N.

J Dent Res 2020, abstract #2918.

Composite Warming Effects on the Mechanical Properties of Bulk Fills

Brown A, Brewster J, Dixon S.

J Dent Res 2020, abstract 1834

The Erosive Potential of Sugar-Free Waters on Cervical Dentin

Eckhart S, Brewster J, Johnston C.

J Dent Res 2020, abstract #0674

Effect of Diode Laser Treatment on Resin-Dentin Microtensile Bond Strength

Greenwell J, Brewster J.

J Dent Res 2020, abstract #3396

Marginal Fit Comparison of Crowns Fabricated with two CAD/CAM Systems

Rusiecka I, Brewster J.

J Dent Res 2020, abstract #2147

SUBMITTED/ACCEPTED FOR PUBLICATION (28)

Risk indicators of urgent and extensive dental treatment needs in U.S. Air Force recruits

Norris J, Irwin S, Park J, Stephens R, Moss M, Weintraub J.

Military Medicine (submitted)

Volumetric Changes In Edentulous Alveolar Ridge Sites Utilizing Guided Bone Regeneration And A Custom Titanium Ridge Augmentation Matrix (CTRAM)

Hofferber C, Beck J, Liacouras P, Wessel J, Getka T.

International Journal of Implant Dentistry (submitted)

A Clinical Evaluation Of Cone Beam Computed Tomography: Implications For Endodontic Microsurgery

Kopacz M, Neal J, Suffridge C, Webb T, Mathys J, Brooks D, Ringler G.

Journal of Endodontics (submitted)

Time and Accuracy of the CEREC Omnicam Using Two Different Software Programs

Porr D, Brooks D, Liacouras P, Petrich A, Ellert D, Ye L.

Journal of Prosthodontics (submitted)

Fracture Resistance Of Three Monolithic Cad/Cam Manufactured Implant Supported Crowns Cemented To A Ti-Base Connector

Hoffman M, Gage B, Kim J, Yarbrough L.

General Dentistry (submitted)

Effect of Various Cleaning Methods on Resin Bond Strength of Saliva-Contaminated Ceramic Surfaces

Oh J, Dimalanta W, Aita-Holmes C, Dickinson D, McPherson III J.

Journal of Prosthetic Dentistry (submitted)

The Effect of Arch Form on Connector Size Requirements in Long Span Anterior Zirconia Fixed Dental Prostheses

Coello R, Aita-Holmes C, Wenger K.

Journal of Prosthetic Dentistry (submitted)

Orofacial granulomatosis associated with oral allergy syndrome: a case report

Bunting M, Hawie J, Johnson T.

Clinical Advances in Periodontics (submitted)

Overlay analysis of cone-beam computed tomography volumes acquired before and after horizontal alveolar ridge augmentation

Pfaff A, Bumpers A, Swenson D, Ange B, Johnson T.

Journal of Periodontology (submitted)

The Effectiveness of Cleaning and Sterilizing Reciprocal Orthodontic Interproximal Reduction (IPR) Strips for Patient Re-use, A Comparative Study

Martineau J, Vandewalle K, Johnson K, Hendricks L, Aden J.

American Journal of Orthodontics and Dentofacial Orthopedics (submitted)

The effect of vaping on force degradation of orthodontic elastomeric chains

Ensley J, Snyder R, Park J, Vandewalle K.

American Journal of Orthodontics and Dentofacial Orthopedics (submitted)

Management of Dental Anxiety via Distraction Technique

Torres-Gomez J, Arnason S, Hoopes W, Vandewalle K.

Anesthesia Progress (submitted)

Devising a Manpower Model from USAF Recruit Dental Needs

Knudson A, Irwin S, Knowles J, Vandewalle K.

Defense Technical Information Center (submitted)

Selecting a Cone Beam System for Your Dental Office

Bateman D, Lien W, Reeves T, Mah P, Vandewalle K.

General Dentistry (submitted)

Efficacy of Various Decontamination Methods and Sterilization on Contaminated and Inoculated Diamond-Coated Burs

Wirth N, Savett D, Lien W, Crabtree M, Vandewalle K.
General Dentistry (submitted)

Targeted Endodontic Microsurgery: Implications of the Greater Palatine Artery

Smith B, Pratt A, Anderson J, Ray J.
J Endod (submitted)

Fracture Strength of Various Titanium-Based, CAD-CAM Implant Crowns and PFM Implant Crowns

DuVall N, DeReis S, Vandewalle K.
Journal of Esthetic and Restorative Dentistry (submitted)

Targeted Endodontic Microsurgery: A Retrospective Outcome Assessment

Buniag A, Pratt A, Ray J.
Journal of Endodontics (submitted)

Surface Integrity of Root Ends Following Apical Resection with Targeted Trephine Burs

Otterson S, Dutner J, Phillips M, Sidow S.
J Ital Endod. Accepted 7 August 2020.

Orthodontic treatment of periodontally compromised teeth following laser periodontal therapy: a case report

Johnson TM, Bice RW, Gilbert WA.
Photobiomod Photomed. [accepted for publication 13 July 2020].

Pain Catastrophizing in the Orofacial Pain Population

Dinan, JE*, Hargitai, IA, Watson, N, Smith, A, Schmidt, JE.
Journal of Oral Rehabilitation, July 2020. (Under review)F

Targeted Endodontic Microsurgery: A Clinically Oriented Assessment of Three 3D Printers

Anderson JA, Wealleans JA, Ray JJ.
Journal of Endodontics, 2019 (submitted)

Efficacy of Screening for GERD in the Dental Setting

Ellis A, Miller CB, Kosaraju A, Francis, JM, Solivan-Ortiz AM, Parke A, Jessup J, Vandewalle KS
JADA, 2019 (submitted)

Temporal Tendonitis

Preston S. Duffin, DDS, MS; Alexander Smith, DDS, MS; James M. Hawkins, DDS, MS
Journal of the Academy of General Dentistry, 2019 (submitted)

Pediatric Obstructive Sleep Apnea: A Multi-Disciplinary Approach

Stark, Thomas R
California Dental Journal, 2019 (submitted)

Orthodontic treatment of periodontally compromised teeth following laser periodontal therapy

Ronald W. Bice, Thomas M. Johnson

Clinical Advances in Periodontics, 2019 (submitted)

Assessing the Accuracy of Two Posterior Tooth-size Discrepancy Prediction Methods

Fallis, DW

Angle Orthodontist, 2019 (submitted)

The Effect of Dental Unit Waterline Antimicrobials on the Shear Bond Strength of Orthodontic Brackets

Carey JF, Hernandez-Feldpausch MA, Howard RS, Molinaro JD, Huber JH, Ye L.

The Angle Orthodontist, 2018 (submitted)

Presentations (128)

National/International (45)

AMSUS (2)

MAJ Ross Cook (APDS Fort Bragg, Comprehensive Dentistry), *Use of a Pressure Cooker to Achieve Sterilization for an Expeditionary Environment* (Poster Presentation)

MAJ Adam Bennett (APDS Fort Bragg, Comprehensive Dentistry), *Assessing Changes in Opioid Prescribing Habits of U.S. Army Dental Corps Providers Following Completion of Opioid Prescriber Safety Training* (Poster Presentation)

International Association of Dental Research (**Cancelled due to COVID19**)

American Association of Endodontists (3)

Massey M. (APDS Fort Bragg) *A survey of decision making analysis when MB2 cannot be located in maxillary first molars.*

Park K. (APDS Fort Bragg) *Evaluation of Retreatability of 3 Endodontic Sealers: AH Plus, EndoSequence BC Sealer, and HiFlow EndoSequence BC Sealer.*

Rihani A. (APDS Fort Bragg) *A Survey of Surgical Trends Among Military Endodontists.*

American Academy of Fixed Prosthodontics Annual Meeting (4)

LCDR Krystal Burns (NPDS Prosthodontics) *Posterior Cantilevered Resin-Bonded Fixed Partial Denture as an Alternative to Implant Restoration* (Poster Presentation)

LCDR Danielle Marquis (NPDS Prosthodontics) *Applying Functional Generated Path to a Digital Workflow* (Poster Presentation)

LCDR Jeffrey Smith (NPDS Prosthodontics) *Influence of Light on Intraoral Scanner Shade Matching: A Pilot Study* (Poster Presentation)

LCDR Tuan Tran (NPDS Prosthodontics) *Use of Dynamic Navigation to Place Rescue Implants with a Duplicated Conversion Prosthesis* (Poster Presentation)

American College of Prosthodontists Annual Meeting (6)

MAJ Julie Xue (APDS Prosthodontics) *Effect of Manufacturer and Laboratory Processing Variability on Pre-shaded Ceramic Color* (Oral Presentation - John Sharry Research Competition)
 MAJ Ryan Coello (APDS Prosthodontics) *Digital Workflow for Improved Accuracy and Efficiency in Developing a Diagnostic Wax-up for a Full Mouth Rehabilitation* (Poster Presentation)
 MAJ Jenny Oh (APDS Prosthodontics) *Effect of Various Cleaning Methods on Resin Bond Strength of Saliva-Contaminated Ceramic Surfaces* (Poster Presentation)
 LT Diewitt Duong (NPDS Prosthodontics) *Dynamic 3D Navigation for Accurate and Precise Placement of Dental Implants* (Poster Presentation)
 LCDR Gabrielle Jung (NPDS Prosthodontic) *Management of an Endodontically Accessed Lithium Disilicate Molar Restoration* (Poster Presentation)
 CDR Robert Holmes (NPDS Prosthodontics) *Spacer Device for Assistance During Conversion of an Immediate Implant Prosthesis* (Poster Presentation)

American Academy of Periodontology Annual Meeting (4)

MAJ Daniel Brockway (APDS Periodontics) *Ridge Preservation: Evaluation of Hard and Soft Tissue Dimensions*
 MAJ Alicia Choi (APDS Periodontics) *Neodymium-doped Yttrium Aluminum Garnet Laser Use at Dental Extraction Sockets: A Consecutive Case Series*
 CPT Anthony Vargas (APDS Periodontics) *Time- and species-dependent bacterial adhesion to titanium over short exposure periods: an in vitro study*
 CPT James Wilson (APDS Periodontics) *Frequency of Adequate Mesiodistal Space and Faciolingual Alveolar Width for Implant Placement at Anterior Tooth Positions*

American Association of Orthodontists (AFPDS – Tri Service Orthodontic Residency Program – Table Clinics) (6) [Virtual](#)

MAJ Alicea (USA): *An in Vitro Study on Aligner Rotational “Lag” With In-Office Clear Aligner Therapy*
 Maj Benfield (USAF): *Shear Bond Strength Between Opal Seal and Flash Free brackets (Both Clear and Metal)*
 Capt Ensley (USAF): *Bench Top E-cig Exposure and O-ring Degradation Compared to Control*
 LCDR Gittleman (USN): *Survey: Post-graduate Dental Education Program Directors Use of the Flipped Classroom Model*
 MAJ Martineau (USA): *Orthodontic Diamond Reciprocal Attachments: Do They Harbor Bacteria and Bioburden After Cleaning and Sterilization?*
 Maj Nguyen (USAF): *Toothbrush Abrasion and Its Effect on Thermoplastic Orthodontic Appliances*

Academy of Osseointegration (Presentation Accepted but Meeting (1) (Prepared but not presented [Due to COVID](#))

Maj Michael Hoffman (APDS Schofield Barracks, USU MS Class of 2019): *Fracture Resistance of Three Monolithic CAD/CAM Manufactured Implant Supported Crowns Cemented to a TI-Base Connector*

American Assoc of Endodontists-Insight Track Mtg (1)

Ray, J. (AFPDS Lackland, Professor of Endodontics) *3D Printing Guides for Targeted Endodontic Microsurgery (TEMS)*.

Hinman Dental Meeting – AFPDS (5) (Presentations Accepted but Meeting **Rescheduled to 2021**)

CPT David Hornack (APDS Fort Jackson): *A Needle in a Haystack! – Management of a separated needle*

CPT Kylee Deiter (APDS Fort Bliss): *Conservative Endodontics and the Effect on Tooth Longevity*

CPT Caitlyn Menicucci (APDS Fort Bliss): *Isotope Analysis of Hydroxyapatite for Georeferencing*

CPT Tri Nguyen (APDS Fort Bliss): *A Simplified Approach to Determine the Necessity and Selection of an Implant Surgical Guide*

CPT Christopher M. Wunsch (APDS Fort Bliss): *Cone Beam Computed Tomography in Endodontics, a Guideline for Clinicians*

Academy of General Dentistry (3) (**Held Virtually**)

Arnason, S (AFPDS, Assistant Professor of Comprehensive Dentistry) Academy of General Dentistry Summer Fellowship Review Course lecturer (virtual)

Renda, J (AFPDS, Assistant Professor of Comprehensive Dentistry) taught both the Esthetics and Prosthodontics sections of the Academy of General Dentistry Fellowship Review Courses in July 2020 and Sep 2020. It is the first time this has ever been done virtually.

Maj Michael Hoffman (APDS Schofield Barracks, USU MS Class of 2019): *Fracture Resistance of Three Monolithic CAD/CAM Manufactured Implant Supported Crowns Cemented to a TI-Base Connector*

Military Health System Research Symposium 2019 (9) (Accepted but not presented **due to COVID**)

POSTER PRESENTATIONS (3)

Dr. Kraig Vandewalle (AFPDS) *Management of dental anxiety via distraction technique*

Lt Col (Dr.) Scott Irwin (AFPDS) *Dental disease non-battle injuries (D-DNBI) in three Air Force deployed locations*

Capt Kristi Kennedy (AFPDS): *Periodontal Stem Cell Characterization and the Role of BMP2*

ORAL PRESENTATIONS (6)

Lt Col (Dr.) Scott Irwin (AFPDS): *The critical operational role of military dentistry in military readiness*

Lt Col (Dr.) Jarom Ray (AFPDS): *Targeted endodontic microsurgery: 3D printed surgical guides and trephine burs*

Maj (Dr.) Preston Duffin (AFPDS): *Current evidence for treatment of obstructive sleep apnea with mandibular advancement devices*

Capt (Dr.) Rachel Voigt (AFPDS): *Clinical and radiographic parameters to guide early implant loading in the posterior mandible*

Dr. David Lemon (AFPDS): *Lysogenic phages as anti-cavity therapy*

COL Thomas Johnson (APDS): *Managing Antral Wall Discontinuities in Sinus Elevation Surgery*

Col David Klingman (AFPDS Associate Professor of Oral Pathology conducted a 3-hour **virtual** Oral Pathology Symposium for more than 50 Army, Navy, and Air Force dentists throughout EUCOM and CONUS.

Regional/Local (83)

2020 Research Day at the Dental College of Georgia-Augusta University (8)

MAJ Ryan Coello (APDS, Prosthodontics, Class of 2020) presented a table clinic/poster entitled *Digital Workflow for Improved Accuracy and Efficiency in Developing a Diagnostic Wax-up for a Full Mouth Rehabilitation*.

MAJ Jenny Oh (APDS, Prosthodontics, Class of 2020) presented a table clinic/ entitled *Effect of Various Cleaning Methods on Resin Bond Strength of Saliva-Contaminated Ceramic Surfaces*.

MAJ Josh Sparks (APDS, Prosthodontics, Class of 2020) presented a table clinic/poster entitled *Non-thermal gas plasma cleaning of diamond coated dental burs*.

MAJ Josh Waldron (APDS, Prosthodontics, Class of 2020) presented a table clinic/poster entitled *Effect of anodized titanium abutments on the color of lithium disilicate crowns*.

MAJ Alicia Choi (APDS, Periodontics, Class of 2020) presented a table clinic/poster entitled *Neodymium-doped Yttrium Aluminum Garnet Laser Use at Dental Extraction*.

Sockets: A Consecutive Case Series

MAJ Daniel Brockway (APDS, Periodontics, Class of 2020) presented a table clinic/poster entitled *Changes in Keratinized Mucosal Width following Alveolar Ridge Preservation*.

CPT Anthony Vargas (APDS, Periodontics, Class of 2020) presented a table clinic/poster entitled *Time- and species-dependent bacterial adhesion to titanium over short exposure periods: an in vitro study*.

CPT James Wilson (APDS, Periodontics, Class of 2020) presented a table clinic/poster entitled *Frequency of Adequate Mesiodistal Space and Faciolingual Alveolar Width for Implant Placement at Anterior Tooth Positions*.

2020 Research Day at Louisiana State University Dental School (2)

Maj Scott Bryant (AFPDS Keesler, Endodontics, Class of 2020): *Oh, Grow Up! Management of Immature Roots in the Permanent Dentition* (Oral Presentation)

Maj Jason Rose (AFPDS Keesler, Endodontics, Class of 2020): *Endodontic Irrigation: The Solution to Pollution* (Oral Presentation)

2020 USAF-USA Endodontic Research Virtual Symposium (4) (*Inaugural Meeting*)

MAJ Jose Burgos (APDS Ft Gordon, Endodontics, Class of 2020) presented his research, *Root Canal Treatment versus Vital Pulp Therapy after Carious Exposure: A Cost-effectiveness Analysis in the United States Healthcare System*.

MAJ Kristel Burgos (APDS Ft Gordon, Endodontics, Class of 2020) presented her research, *Assessment of Patients' Perceptions of CBCT and Endodontic Treatment*.

MAJ Khine Htet (APDS Ft Gordon, Endodontics, Class of 2020) presented her research, *Re-establishing Patency During Retreatment in Canals Obturated with Bioceramic Sealers Using Various Obturation Techniques*.

CPT Jason Umbach (APDS Ft Gordon, Endodontics, Class of 2020) presented his research, *Surface Integrity of Orthograde MTA Obturation Following Targeted Endodontic Microsurgery*.

2020 APDS Virtual Symposium between JBLM, Ft Benning, and Ft. Carson (Presented via Zoom, but originally developed for the Pacific Northwest Dental Conference (*Inaugural meeting*))

2020 California Dental Association Annual Meeting – 11 NPDS AEGD12 residents from San Diego and Camp Pendleton presented posters virtually due to the COVID19 Pandemic along with the 8 residents from the AFPDS Travis AFB AEGD12 residency. (19) (*First time held virtually*)

Capt Alexandra Gielt (AFPDS Travis AFB): *Review of Orthodontic Temporary Anchorage Devices*

Capt Alexa Goetz (AFPDS Travis AFB): *Trigeminal Neuralgia*

Capt Jessica Goldenstein (AFPDS Travis AFB): *The Application of Ergonomics*

Capt Henry Rob (AFPDS Travis AFB): *The Efficacy of Photobiomodulation on Wound Healing in Dentistry*

Capt Daniel Kim (AFPDS Travis AFB): *Effect Of Low Level Laser Therapy On Orthodontic Treatment*

Capt Michael Loida (AFPDS Travis AFB): *Conventional vs. vertical tooth extraction: a comparison of alveolar bone preservation*

Capt Cody Murray (AFPDS Travis AFB): *Post-operative Pain Management: Liposomal Bupivacaine*

Capt William Rysenga (AFPDS Travis AFB): *Appropriate Utilization of CBCT for Endodontic Diagnosis and Treatment Planning*

Hampton Roads Federal Services Dental Symposium – Naval Medical Center, Portsmouth
Coastal Virginia Dental Education Symposium – Joint Base Langley-Eustis, Langley VA
(AFPDS AEGD12 Langley) (9)

Capt Alberto Alfaro presented *Role of Osseointegrated Implants in Maxillofacial Prosthesis*

Capt Erin Baldrige presented *Cryotherapy for Prevention of Postoperative Pain in Endodontics*

Capt Clifford Bautista presented *Limitations of Fully Stabilized Zirconia*

Capt Logan Ledesma presented *Zygomatic Implants: Treatment Options for the Resorbed Maxilla*

Capt Paul Smith presented *Is Gold Still the Gold Standard?*

Capt Spencer Smith presented *The Effects of E-Cigarettes on Oral Health*

Capt Cameron Woodward presented *Rapid Maxillary Expansion to Treat Pediatric OSA*

2 Residents (NPDS Portsmouth GPR) finished in the top three poster presentations

Okaloosa Co Dental Society - AFPDS Eglin AFB AEGD12 (8)

Capt Angela Brost - *Restoration of Gingival Black Triangles.*

Capt Ann Danello - *CAD/CAM Radiographic and Surgical Implant Guides.*

Capt Cam Ha - *Class II Open Sandwich Technique.*

Capt Christopher Lillenberg - *Luxation Injuries.*

Capt Connor Luttrell - *Bioactive Restorative Materials.*

Capt Skyler Muller - *An Update on Zirconia Materials.*

Capt James Turvy - *Gingival Colored Composites in NCCL.*

Capt Ryan Zarnowski - *Oroantral Communications.*

Omaha District Dental Society Meeting – AFPDS Offutt AEGD-1 (6)

Capt Sam Coen – *Self-Healing Dental Composites*

Capt Andrea Deese - *Laser Treatment for Dentin Hypersensitivity*

Capt Anthony Del Corral - *Regenerative Endodontics*

Capt Adam Hahn - *Dental Applications of Exparel*
Capt Katelyn Lowery - *Digital Orthodontic Treatment Planning*
Capt Jacqueline Hardy - *HPV and Oral Diseases*

Dayton Dental Society (1)

Maj Peter Ingoldsby (AFPDS Wright Patterson, Assistant Professor of Oral and Maxillofacial Surgery):
Medication Induced Osteonecrosis of the Jaws

Coastal Virginia Dental Education Symposium – AFPDS Langley AEGD-1 (Hosted on Zoom by JB Langley-Eustis – Combined Navy and AF CE event)

USU 2020 Research Day (PDC Session Cancelled Due to COVID19)

Napa-Solano Dental Society – AFPDS Travis AFB AEGD-1 (8) (Prepared but not presented due to COVID)

Capt Alexandra Giett: *Review of Orthodontic Temporary Anchorage Devices*
Capt Alexa Goetz: *Trigeminal Neuralgia*
Capt Jessica Goldenstein: *The Application of Ergonomics*
Capt Henry Rob: *The Efficacy of Photobiomodulation on Wound Healing in Dentistry*
Capt Daniel Kim: *Effect Of Low Level Laser Therapy On Orthodontic Treatment*
Capt Michael Loida: *Conventional vs. vertical tooth extraction: a comparison of alveolar bone preservation*
Capt Cody Murray: *Post-operative Pain Management: Liposomal Bupivacaine*
Capt William Rysenga: *Appropriate Utilization of CBCT for Endodontic Diagnosis and Treatment Planning*

San Antonio Military Health System & Universities Research Forum – AFPDS Lackland (7)

Wirth N, Henrichs L, Crabtree M, Savett D, Lien W, Vandewalle KS: *Efficacy of Various Sterilization Techniques on Diamond-Coated Dental Burs.*
Torres-Gomez J, Hoopes W, Arnason S, Vandewalle K: *Management of Dental Anxiety via Distraction Technique.*
Mehari KT, Parke A, Gallardo FF, Vandewalle KS: *Bond Strength of Resin Cements to Zirconia after Surface Treatments.*
Knudson A, Irwin S, Vandewalle KS: *Devising a Manpower Model from USAF Recruit Dental Needs.*
Bateman D, Lien W, Reeves T, Mah P, Yi W, Vandewalle K: *Comparative Evaluation of Cone Beam Computed Tomography (CBCT).*
Vandewalle KS, DeReis S, DuVall N: *Fracture Strength of Titanium-based Implant Crowns.*
Duffin P, Smith A, Hawkins J: *Nonodontogenic Odontalgia. Referred from the Temporal Tendon: A Case Report.* J Endo. 2020 Jun 16, 2020. online publication. Currently in press corrected proof.

Northeast Implant Symposium – Boston MA – NPDS (1)

LCDR Gabrielle Jung: *Unique Application of Dynamically Guided Surgery: Rescue Implants Following Trauma in a Full-Arch Rehabilitation Patient*

Major Ryan Sheridan (AFPDS Lackland, Associate Professor of Prosthodontics)

Greater New York Dental Meeting: Oral Presentation
Tri-Service Oral Surgery Residency Lecture to 40 Oral Surgery Residents
AEGD12 Special Lecture Series delivered via Zoom to 75 AF Residents

Lt Col Scott Irwin (AFPDS Assistant Professor of Dental Public Health gave the following presentations:

- Harvard School of Dental Medicine Journal Club on *Oral Health Research in the 3 Armed Services: Current Topics and Priorities*.
- National Oral Health Conference on *Air Force Dentistry: Beyond the Perimeter*

Col David Klingman (AFPDS Lackland, Associate Professor of Oral and Maxillofacial Pathology):

- UT Dallas Biology 335 – Medical Histology: presented *Oral Pathology Primer* (virtual)
- West Virginia Academic Day: presented *How to Think in Power Point* (virtual)

CAPT Steve Matis gave a presentation to the National Oral Health Conference, Federal Dental Services Session on *Updates from the Federal Dental Services: Challenges and Opportunities* (Navy)

Dr. Drew Fallis (AFPDS Professor of Orthodontics) gave a virtual presentation to the University of Detroit Mercy Orthodontic Residency Program entitled *Treatment Planning Decisions for Skeletal Discrepancies*

Dr. Rod Phoenix (AFPDS Professor of Prosthodontics) gave a virtual presentation to the University of North Carolina Prosthodontics Residency Program entitled *Removable Prosthodontics*

Awards (25)

MAJ Julie Xue (APDS Prosthodontics, USU MS Oral Biology Class of 2019) – John J. Sharry Research Competition 2nd place winner for her research, Effect of Manufacturer and Laboratory Processing Variability on Pre-shaded Ceramic Color – 2019 American College of Prosthodontists Annual Session, Miami, FL.

MAJ Daniel J. Phillips (APDS Periodontics, Fort Gordon, USU MS Oral Biology Class of 2019) was awarded the USU Board of Regent's Patrick D. Sculley, DDS, Award for the Postgraduate Dental College.

MAJ Daniel J. Phillips (APDS Periodontics, Fort Gordon, USU MS Oral Biology Class of 2019): research entitled, *Buccal bone thickness adjacent to virtual dental implants following guided bone regeneration*, was judged as best resident research from his 74 member tri-service graduation class.

MAJ Daniel J. Phillips (APDS Fort Gordon, Periodontics, USU MS Oral Biology Class of 2019, Assistant Professor of Periodontics, Ft Benning AEGD12) – 3rd place in the 2020 Major General Joseph L. Bernier Research Competition.

MAJ Alicia Y. Choi (APDS Fort Gordon, Periodontics, USU MS Oral Biology Class of 2020) – 2nd place in the 2020 Southern Academy of Periodontology Billy M. Pennel Research Competition.

MAJ Joshua Akers (APDS Fort Gordon, Periodontics, USU MS Oral Biology Class of 2021) – 3rd place in the 2020 Southern Academy of Periodontology Billy M. Pennel Research Competition.

CPT David Hornack (APDS Fort Jackson, AEGD12) – 1st place in the Hinman Table Clinic Award ('A Needle in a Haystack!' – management of a separated needle)

The annual NPDS Research Symposium Program was held on 19-20 May 2020. Graduating residents present their research in an oral report that is evaluated and judged by researchers from such institutions as the Uniformed Services University of the Health Science, Walter Reed National Military Medical Center, and National Institute of Dental and Craniofacial Research. The top three re-search presentations are given Research Awards by the International College of Dentists

LCDR Kerry B. Baumann, *Distribution Of Human Tongue Fat And Obstructive Sleep Apnea*, 1st place

LCDR Matthew E. Seedall, *Identifying Molecular Driver Events In Salivary Acinic Cell Carcinomas*, 2nd place

LCDR Kerry B. Baumann (NPDS Oral and Maxillofacial Pathology, USU MS in Oral Biology Class of 2020) was awarded the Chief of the Dental Corps Award for Excellence. This award is an extremely high honor and is presented to the top graduate across all specialty residency programs.

LT Bethany D. Brooks (NPDS Periodontics, USU MS in Oral Biology Class of 2022) was awarded the 2020 Dean's Award for Academic Excellence for outstanding performance in didactic, clinical, and military endeavors during her 1st year of residency.

CPT Eric Hu, US Army (NPDS Prosthodontics, USU MS in Oral Biology Class of 2019) was awarded 1st place in the 2020 Joseph L. Bernier Research Competition.

Maj Bracken Smith (AFPDS JBSA Lackland Endodontic, USU MS in Oral Biology Class of 2020) was awarded the AFPDS 2020 Marble Thesis, given for best resident research from the 24 AFPDS graduates.

Maj Rachael Voigt (AFPDS Periodontics, USU MS in Oral Biology Class of 2021) was awarded an Academy of Osseointegration/Nobel Biocare Travel Grant Award for her research project entitled *Clinical and Radiographic Parameters to Guide Early Implant Loading in the Posterior Mandible*.

Capt Cody Murray (AFPDS Travis AFB AEGD12 Class of 2020) received the Maj Gen Arthur J. Sachsel Award (given to the #1 resident each year at graduation).

Maj Joseph Gedge (AFPDS Nellis AFB AEGD12, Assistant Professor of Comprehensive Dentistry) was named *Dental Educator of the Year* for Air Combat Command (ACC)

Maj Paul Clark (AFPDS Nellis AFB AEGD12, Assistant Professor of Oral and Maxillofacial Surgery) was named *Clinical Dentist of the Year* for ACC.

Maj Elizabeth Morris (AFPDS Travis AFB AEGD12, Assistant Professor of Comprehensive Dentistry) was awarded Fellowship in the Academy of General Dentistry.

Lt Col Elise Ehland (AFPDS Travis AFB AEGD12, Assistant Professor of Oral and Maxillofacial Surgery) was awarded Fellowship of the American Academy of Cosmetic Surgery.

Lt Col Elise Ehland (AFPDS Travis AFB AEGD12, Assistant Professor of Oral and Maxillofacial Surgery) was named *Educator of the Year* for David Grant Medical Center, Travis AFB.

COL Charles Lambert (APDS Fort Bragg, Assistant Professor of Comprehensive Dentistry) received the Army Dental Corps Chief Award for Excellence in the Dental Educator category.

MAJ Rhotaz Sandhu (APDS Fort Campbell, Assistant Professor of Comprehensive Dentistry, Program Director, AEGD12) passed the Academy of General Dentistry fellowship exam and applied for the Fellowship Award.

Military Teaching/Clinician Awards

Lt Col Steven Black (AFPDS Keesler, Assistant Professor of Endodontics) - Keesler AFB Dental Educator of the Year.

Maj Angela Synatzske (AFPDS Lackland, Assistant Professor of Periodontics) – 59th Dental Group New Educator of the year.

Lt Col Demitri Villarreal (AFPDS Lackland, Assistant Professor of Periodontics) – 2020 American Academy of Periodontology Outstanding Teaching and Mentoring in Periodontics Award

Supplement

Tab 35

College of Allied Health Sciences

Uniformed Services University of the Health Sciences Board of Regents

College of Allied Health Sciences Quarterly Board Report 02 November 2020

Submitted by: Lula Westrup Pelayo, Ph.D., RN, FAAN

Date: November 2, 2020

Title & Department: Acting Dean, College of Allied Health Sciences

Phone: 210-299-8527

Purpose: Provide Update

Information: Below

Action Two

Subject: CAHS Update

Significant Issues:

1. We are anticipating a total enrollment for CY 2020 at 2200, with current enrollment of 1256 students in 17 of our 20 program areas. As of October 9, 2020, all training programs are fully operational. We currently have twelve programs with enrollments at the Medical Education Training Campus (METC), two at the Medical Education Center of Excellence (MEDCoE), one at the Joint Special Operations Medical Training Center (JSOMTC), and two programs under the Navy medical Forces support Command (NMFSC).

METC

- Cardiopulmonary Laboratory Apprentice
- Cardiovascular Technician
- Histology Technician
- Medical Laboratory Technician
- Neurodiagnostic Technologist
- Nuclear Medicine Technologist
- Nutrition Science
- Occupational Therapy Assistant
- Ophthalmic Technician
- Radiologic Technologist
- Respiratory Therapy
- Urology Technician

MEDCoE

- Preventive Medicine (Health Physics)
- Emergency Medical Services Paramedic (Ft. Sam Houston)

JSOMTC

- Emergency Medical Services Paramedic (Ft. Bragg)

NMFSC

- Independent Duty Corpsman Submarine Program (Groton Ct.)
- Independent Duty Corpsman Surface Program (San Diego)

Two CAHS programs required recycles of students from one cohort to another due to COVID 19 ROMs since August 2020. These include ten (10) students in the Medical

Laboratory Technician and four (4) in the Radiology Technologist programs. Recycles may be due to diagnosis, quarantine, or clinical unavailability.

2. We anticipating approximately 90 prospective graduates to be presented to the Board for approval in December. Nine different majors will awarded, five with Associate of Science Degrees in Health Sciences (ASHS), one major with both ASHS and Bachelors of Science in Health Sciences (BSHS), and two with the BSHS degree.

EMS Paramedic ASHS
Radiology Technologist ASHS
Occupational Therapy Assistant ASHS
Medical Laboratory Technician ASHS and BSHS
Public Health ASHS and BSHS
Histology Technician ASHS
Neurodiagnostic Technician ASHS
Independent Duty Corpsman (Surface) BSHS
Independent Duty Corpsman (Submarine) BSHS

3. Participation continues with Defense Health Agency 7 – Education (DHA J7), Medical Education Training Campus, Medical Center of Excellence, Navy Medical Forces Support Command, and 59th Medical Wing on one line of effort in response to the COVID 19 crisis.

Distributive Learning as a Service Component

The Medical Education Training Campus (METC) has developed a Distance Blended Learning Program plan process for those delivering instruction via alternate methodologies. The following are key components of the plan:

- To identify and centralize the process and collaboratively seek approval from the Services, Accrediting Bodies, CAHS, and METC Academics as they transition to a Distance/Blended Learning (DBL) platform.
- Lays out an extensive, but not inclusive, plan identifying the requirements needed to successfully implement the plan during the COVID-19 pandemic or other such emergencies
- Developed by Program Directors/Service Leads.
- Final approval by METC Dean

Respective CAHS program plans are submitted to CAHS for Review

Please note: The CAHS serves as the sponsoring institution for service requested programs. The education and training is conducted by the respective military services and while the CAHS does not dictate program activities, we are asked for and do have input into certain areas of program development.

Completed Plans

Histopathology Technician (approved but not executing)
Nutrition Science & Diet Therapy

Urology Technician
Pharmacy Technician
Respiratory Therapist
Nuclear Medicine

4. CAHS will be working on future program developments as driven by Service requests for the following:

MEDCoE *

Ft. Sam Houston
Licensed Practical Nurse

NMFSC

Groton, CT *
Submarine Independent Duty Corpsman (Alternative Training Pipeline)
Radiation Health Technician

Bethesda, MD
Dental Laboratory Technician, Maxillofacial

Portsmouth, VA
Hemodialysis Technician

Pensacola, FL
Aerospace Medical Technician
Flight Medic
Aerospace Physiology Technician

San Diego *
Navy Drug and Alcohol Counselor

Multiple locations
Hospital Corpsman Trauma Training

*Noted: Sites presently recognized as “other instructional sites” by MSCHE

Current & Future Concerns: No significant concerns at the time of submission.

Funding/Budget Estimate/Fiscal Impact: None at this time

Staffing Impact: No significant concerns at the time of submission.

Board Action Requested: Two new programs: Advanced Tactical Provider and Opticianry Programs

Board Action Requested: Approval for the Advanced Tactical Provider Program

Action 1:

In accordance with USU PPM 008-2019, Establishment of New Academic Programs, and as detailed in the supplemental information of this report, this new program is proposed for implementation at the next available iteration:

Advanced Tactical Provider Program

The Advanced Tactical Provider program has been evaluated for inclusion in the CAHS catalogue as requested by the Special Operations Center of Excellence, Joint Special Operations Medical Training Center. This is proposed as a Bachelor of Science in Health Sciences degree that is open to Army and Navy students. This program trains and qualifies selected Army noncommissioned officers as Special Forces Medical Sergeants and selected Sailors as a Special Operations Independent Duty Corpsman. This is a 2+2 program that includes the Special Operations Paramedic Program, which is required for entry.

The Joint Special Operations Medical Training Center is institutionally accredited by the Council on Occupational Education. They are programmatically accredited by the Committee on Accreditation of EMS Professionals, which is the functional body of the Committee on Accreditation of Allied Health Education Professionals. It is also accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International. Graduates are eligible to certify as National Registry of Emergency Medical Technicians – Paramedic.

This program is proposed at 42 Semester Credit Hours in the major toward the required 120 credits in the Bachelor's Degree. The remaining hours are completed through general education coursework, transfer coursework, and direct assessment. As a 2+2 program, the Special Operations Paramedic Program generates 31 SCHs, which are transferred in. The FY 21 Projected Student load is 263 students (223 Army and 40 Navy).

Current & Future Concerns: No significant concerns at the time of submission.

Funding/Budget Estimate/Fiscal Impact: This program is fully resourced by the Special Operations Center of Excellence.

Staffing Impact: No significant concerns at the time of submission.

Board Action Requested: Action 1.

It is requested that the BoR concur with the recommendation to implement the Advanced Tactical Provider program at the next available iteration, which is projected to be on November 9, 2020.

Board Action Requested: Approval for the Opticianry Program

Action 2:

In accordance with USU PPM 008-2019, Establishment of New Academic Programs, and as detailed in the supplemental information of this report, this new program is proposed for implementation at the next available iteration:

Opticianry Program

The Opticianry program is requested by the Navy Medicine Education, Training, and Logistics Command (now known as Navy Medical Force Support Command, to be developed for inclusion into the CAHS catalogue. This is proposed as an Associate of Science in Health Sciences degree that is open to Army and Navy students, with Air Force attending only as Service requirements on a quota basis. Army students are considered as Initial Entry Training, reporting directly from Basic Combat Training. Navy students are considered pipelined (Initial Entry Training plus Hospital Corpsman Basic).

Specialized programmatic accreditation is with the Commission on Opticianry Accreditation for the Ophthalmic Laboratory Technician Certificate Program. The host facility, the Navy Ophthalmic Support and Training Activity in Yorktown VA, is accredited through the Council on Occupational Education. Graduates of this program are eligible to take the National Opticianry Competency Exam and qualify for the designation, Certified Optician. Graduates are also eligible to challenge the Paraoptometric Assistant Exam and qualify for the designation, Certified Paraoptometric Assistant.

This program is proposed at 29 Semester Credit Hours in the major toward the required 60 credits in an Associate Degree. The remaining hours are completed through general education coursework, transfer coursework, and direct assessment. The FY 21 Projected Student load is 59 students (29 Army and 30 Navy).

Current & Future Concerns: No significant concerns at the time of submission.

Funding/Budget Estimate/Fiscal Impact: This program is fully resourced by Navy Medical Forces support Command

Staffing Impact: No significant concerns at the time of submission.

Board Action Requested:

It is requested that the BoR concur with the recommendation to implement the Army and Navy Opticianry program at the next available iteration, which is projected to be in January 4, 2021.



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

COLLEGE OF ALLIED HEALTH SCIENCES
2787 WINFIELD SCOTT ROAD, BLDG 2398
JBSA FT. SAM HOUSTON, TEXAS 78234



16 September 2020

MEMORANDUM FOR PRESIDENT UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

THROUGH: BOARD OF REGENTS

**SUBJECT: Student(s) removed from August 2020 Graduation
College of Allied Health Sciences (CAHS)**

The College of Allied Health Sciences has removed the following student(s) from prospective August 2020 graduation for failure to meet graduation requirements.

Last Name	First/Middle Name		Branch	Rank	Degree	Program/Major
Adams	Joanna F.		Army	E-4	ASHS	EMS Paramedic
Lee	Earl		Army	E-4	ASHS	Radiology Technologist
Lopez	Javier		Army	E-2	ASHS	Medical Laboratory Technician
McCollam	Angela		Air Force		ASHS	Radiology Technologist
Pecina	Juan		Army	E-3	ASHS	Radiology Technologist

Lula Westrup Pelayo. Ph.D., RN, FAAN
Chief Academic Officer and Dean, CAHS

Richard W. Thomas, MD, DDS, FACS
President

Approved / Not Approved _____
Date



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

COLLEGE OF ALLIED HEALTH SCIENCES
2787 WINFIELD SCOTT ROAD, BLDG 2398
JBSA FT. SAM HOUSTON, TEXAS 78234



MEMORANDUM FOR PRESIDENT UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

THROUGH: BOARD OF REGENTS

SUBJECT: Student(s) removed from August 2020 Graduation
College of Allied Health Sciences (CAHS)

DATE: August 31, 2020

The College of Allied Health Sciences has removed the following student(s) from prospective August 2020 graduation for failure to meet graduation requirements.

Last Name	First/Middle Name		Branch	Rank	Degree	Program/Major
Adams	Joanna F.		Army	E-4	ASHS	EMS Paramedic
Lopez	Javier		Army	E-2	ASHS	Medical Laboratory Technician

Lula Westrup Pelayo. Ph.D., RN, FAAN
Acting Dean, CAHS

Supplement

Tab 36

*Armed Forces Radiobiology
Research Institute*



Uniformed Services University Board of Regents

Board Brief

Submitted by: COL Mohammad Naeem, MC, USA **Date:** 06 Oct 2020
Title & Department: Director, AFRRRI **Phone:** 301-295-9243
Purpose: Informational
Subject: **AFRRRI Director's Report for Nov 2020 Meeting**

Top-line Updates

1. AFRRRI in the Global Geo Strategic Context
2. Nuclear Regulatory Commission (NRC) Inspection
3. Combat Operations at Low Level Radiation (COALL-R)
4. Research Accomplishments
5. AFRRRI Sources Status Update

Functional Area Updates:

1. AFRRRI in the Global Geo Strategic Context

“What makes AFRRRI unique is that it is the only unclassified facility in the United States that has all sources for all types of radiation under a single building.” Dr. Singh, AFRRRI PI

AFRRRI has a TRIGA Mark-F reactor used to study the effects of neutron and gamma radiation on living organisms and instruments, and to produce radioisotopes (AFRRRI SAR JUL 04). This reactor is unique due to the ability to pulse and simulate the liberation of large amount of energy in a very small period of time as generated by a nuclear weapons detonation. Nuclear explosions emit gamma rays, neutrons, beta particles and small proportion of alpha particles at different strengths depending of elapsed time after detonation. These radiation particles are generally divided into initial nuclear radiation (within first minute) and residual nuclear radiation (after the first minute). AFRRRI reactor has a movable core open to two large exposure rooms that permit experiments in varying mixed radiation fields associated with the initial nuclear radiation, and can be dialed or scaled to match expected field for different yields and distances away. The institute can also simulate effects of residual nuclear radiation using two different Cobalt – 60 sources that range from 10s to 100s k Ci. In addition to the mixed field, AFRRRI houses a medical research linear accelerator and a small animal radiation platform that can be used to shape mono energetic gamma beams of up to 15 MeV to partial of full body doses.

With all five facilities, AFRRI is a one stop shop for large or small research into effects of all radiation sources generated from a nuclear explosion.

Also within AFRRI there is a hot cell that allows safe separation of isotopes from the reactor core. This capability allows AFRRI to, if needed be able to produce radioisotopes from irradiated material in the core. We are currently working on the ability miniaturize and scale targets and associated radiation effects inside the reactor exposure room. This would increase the capability of AFRRI to conduct research on scaled models of geographical locations, vehicles and other large materials.

2. Nuclear Regulatory Commission (NRC) Inspection

Nuclear Regulatory Commission (NRC) concluded the routine inspection of the AFRRI reactor license and follow up inspection of the missing fission chamber. NRC inspector identified **no violations or concerns** from this visit.

The inspection was conducted by our lead NRC manager from Tuesday, 29 Sep, to Thursday, 1 Oct. Key areas of this inspection included records and procedural review of maintenance documents, training, radiation monitoring, radiation safety committee minutes, physical inspection, and review of corrective actions of the cited violations for the missing fission chamber. The inspector identified no violations or issues of concern regarding either the routine reactor inspection or the follow-up inspection regarding corrective actions for the lost fission chamber. The inspector did recommend AFRRI revise the local procedure for reactor maintenance to ensure pool water levels are tracked for trends that will help identify potential leaks. NRC inspector will close the action for the missing fission chamber. The NRC maintains an internal inspection review process and will provide AFRRI the final inspection report within the next 1-2 months.

3. Combat Operations at Low Level Radiation (COALL-R)

Battlefield nuclear warfare (BNW) is defined as being able to conduct continuous combat operations in a nuclear environment. Ongoing combat operations will be impacted by the post-nuclear low level radiation environment (LLRE) which soldiers will be required to operate in. Combat operations will be ongoing in a low level radiation environment, however a critical lack of accurate knowledge of low level health effects will negatively affect successful continued operations and soldier health. (Low level radiation health research funds in USA currently at all time low)

- AFRRI proposes a paradigm shift in its radiation research to include a much more significant footprint in low level radiation health effects including cardiotoxicity, delayed organ failure, neurological, and percussion induced-traumatic brain injury)
- These new studies should include studies in subacute and delayed radiation effects on LLRE-countermeasure development, identification of novel low dose radiation biomarkers, improved risk assessment tools to guide military operations
- COALL-R studies will provide a blueprint for new studies in collaboration with scientists at AFIT, AFRL in the Bioeffects of Directed Energy Weapons (DEW)

Requirements:

1. Personnel: radiation biologists, radiation physicists, risk assessment modelers; junior officers military scientists, enlisted laboratory technicians
2. Funding: \$2-2.5 M

4. Research Accomplishments

a. Military Medical Operations (MMO)

Electromagnetic Pulse (EMP) Testing. A nuclear weapon detonated at high altitude will have minimal Radiation, Blast or Thermal effects. However, there could be a significant Electromagnetic Pulse (EMP) generated from the detonation that could affect a large area of the United States. This EMP could potentially have a detrimental effect to all electronic equipment. The severity of the effect and level of EMP needed to cause the effects are unknown.

AFRRI - MMO is working with the Defense Threat Reduction Agency (DTRA) and US Strategic Command (STRATCOM) to test these effects using a simulated EMP field at White Sands Missile Range (WSMR). AFRRI-MMO acquired multiple medical test articles including a ventilator, patient vitals monitor and clinical lamps from Walter Reed National Military Medical Center (WRNNMC) and Fort Bliss. LTC Lien Senchak is leading the medical team to operate and diagnose the test equipment for function after the EMP pulse is applied using a patient simulator. MMO is also testing multiple other assets regarding fuel, water in addition to medical equipment with the support of Navy.

The goal is to determine at what level of EMP will cause an effect and how the equipment will respond. Results include no effect, failure with self-recovery, failure with operator assisted recovery, and finally complete failure. It is strategically important for US Forces to test and recognize how EMP could affect operations, readiness, capabilities and medical response.

Critical Risk

In order to continue supporting AFRRRI's DoD Directive to maintain Medical Radiobiology Advisory Teams (MRATs), Subject Matter Experts (SME), medical and health physics experts, for augmentation to DTRA'S deployable Chemical Biological Radiological Nuclear Military Advisory Team (CMAT), and be able to advise operational commanders on medical response to Radiological /Nuclear incidents, we must persist improving our communication levels with our Inter-Agency partners national and international. Therefore we urgently need the activation of our secure room 2151 to allow manage data that guards against electronic surveillance and suppresses data leakage of sensitive security and military information (**SCIF**). And the implementation of components that will handle those communications with other security needs, such as the **SIPRNET**, which will be used for higher levels of communication with our partner agencies. Additionally, MMO works closely with DTRA and Naval Dosimetry Center with multiple requests for classified radiation dose assessment (e.g. nuclear weapons intrinsic radiation exposure aboard a ship) that would be highly facilitated by AFRRRI SIPR. **The need for SIPR at AFRRRI does not only benefit MMO but places AFRRRI at the better position to meet its goals as the DoD's lead in radiological nuclear threats and research.**

b. Scientific Research Department (SRD).

L-18BP as a novel countermeasure after radiation exposure. The risk of radiation injury incidents is increasing throughout the world and medical countermeasures are required to address radiological and nuclear threats to military personnel, first responders, and the general public.

Currently, three white blood cell growth factors (Neupogen, Neulasta and Leukine) have been approved by the FDA for mitigating hematopoietic acute radiation syndrome (H-ARS). However, these growth factors are associated with side effects such as bone pain and their mitigative efficacy only observed by giving the drug within 24 h post-irradiation in irradiated mice and nonhuman primates.

The chance of receiving treatment after injury depends on availability of the medical support especially during military action, most likely beyond 24 h post-radiation exposure. Thus, new medical countermeasures with high efficacy and wider therapeutic window beyond 24 h after radiation exposure are required to mitigate/treat the ARS.

Our group for the first time demonstrated that a novel radiation mitigator IL-18BP may mitigate/treat radiation-induced injury and increase survival with a wider therapeutic window from 24 h and beyond after lethal doses of radiation exposure.

5. AFRRI Sources Status Update:

Operational Status

- High Level Cobalt Facility (HLCF): Fully operational; Annual Maintenance recently completed; Control Console upgrade complete; No plans for shutdowns
- Low Level Cobalt Facility (LLCF): Fully operational; Renovation project may lead to brief shutdown; Timeline TBD (working with FAC on plan)
- Linear Accelerator and CT Scanner (LINAC/CT) Facility: Fully operational; no planned shutdowns
- Small Animal Radiation Research Platform (SARRP): Fully operational; no planned shutdowns
- TRIGA Reactor Facility: Administrative shutdown continues, pending License Amendment (approval by NRC) for new digital control console.

Recent Accomplishments

- Established new protocols for experiments in the Linear Accelerator (LINAC) Facility
- Completed upgrade of the High Level Cobalt Facility (HLCF) control console
- Obtained new Optically Stimulated Luminescence (OSL) reader and began development of OSL dosimetry capability at AFRRI (to augment existing Alanine Dosimetry capabilities)

Supplement

Tab 37

University Brigade

**BOARD OF REGENTS
UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES
212th MEETING**

**November 2, 2020 | 8:00 a.m.
Hosted virtually (online) | Bethesda, MD**

**Uniformed Services University Board of Regents
Board Brief**

Submitted by: COL Patrick Donahue

Date: 2 November 2020

Title & Department: Brigade Commander

Phone: 295-9654

Purpose: Information

Subject: Brigade Update

The USU Brigade continues to fully support the University's mission of educating and training health professionals while upholding the Commander's values of accountability, leadership, integrity and transformation. The following key updates are of note for the USU Board of Regents:

1. HEADQUARTERS

o The following senior enlisted arrived to support across the Brigade:

- SFC Achigbu – MPO
- HMCS Hachez – Ops
- SFC Dickerson – SOM, Office of the Commandant
- SFC Atwood – Security

2. COVID-19 SUPPORT/IMPACTS

- o Brigade continues to provide direct and indirect support to COVID-19 operations
- o Continued surveillance and reporting to DHA and NSAB PHEO
- o IAW DoD Force Health Protection Guidance (Supplement 11), the USU Brigade/PHEO/University Occupational Health Center implemented a Surveillance & Testing strategy for the coronavirus disease 2019 (COVID-19) pandemic. As of 9 Oct 2020, 57 service members have been tested; all negative.
- o Brigade continues to support and participate in USU COOP and Pandemic Plan. A USU Tabletop Exercise is being developed to stress USU and Brigade Operations, find gaps and vulnerabilities and ensure preparedness.

3. PROFESSOR OF MILITARY SCIENCE

o Integrate 21st Century Education

- GSN: completed summer semester of Leader & Professional Development course (55students)
- SOM: contributed to the Leadership in Health Systems integrated intersession; worked with faculty across the school of medicine to deliver sessions.
- SOM: led sessions on leadership and professional development for % 2023 & 2024
- SOM: contributed to electives for % 2022 on ROM at clerkship sites.

o Enhance Development

- Selected and trained 12 cadre members to serve as faculty for leadership and professional development program from among members of the staff and brigade. Cadre members are appointed by President Thomas to serve for a period of one academic year.
- Three OPMS members are pursuing certification as International Coaching Federation certified coaches. These individuals will create and implement the USU Coaching Program beginning Summer 2021.

- Facilitate the first Presidential Leader Series panel for this academic year. The theme for this panel was “Forty Eight Years of Developing Adaptive Leaders for the Military Health System and the Nation.” The panel consisted of USU Distinguished Alumni Major General Telita Crosland, Rear Admiral Cynthia Kuehner, Dr. Thomas Geisbert, and COL (R) Russ Kotwal and was expertly moderated by USU SOM student 2LT Elise Brady. This panel is the first of four PLS panels that will be presented by the OPMS this year
- o Enable Scholarship & Program Assessment
 - Hired a course developer and assistant instructor to provide education program assessment capability that the university is currently lacking.
 - Working to complete Charter for the Center of Military Medical Leadership (Center within the Griffith Institute)
- o Strengthen Alliances & Partnerships
 - Establishing partnerships with senior service colleges to implement a mentorship program as part of the leader and professional development course.
 - Working with CHAMP/HPRC to develop leadership and coaching workshops as well as develop online content related to the leadership and professional development program at USU.

4. COMMANDER’S PRIORITIES

o My end state and our shared vision = To not only support the education and training of tomorrow’s military and Public Health physicians, nurses, dentists, scientists and leaders, but to instill a culture of intrusive, servant leadership and military ethos.

o TRAINING:

- Supported a professional understanding of the spiritual component of TFF in the operating forces and in MTF Functional Medicine initiatives (including supporting research) – training offered to all incoming SOM and GEO students.
- Initial planning of Spring 2021 Training Requirements
 - o Summer Leader Program
 - o Summer Operating Experience
 - o MFPs
 - o Bushmaster
- The USU Brigade hosted Sexual Harassment/Assault Response and Prevention (SHARP/SAPR) training. The training integrates sexual harassment and sexual assault exercises to address prevention at the earliest point in the continuum of harm. (Approx. 54 trained)
- Fort Detrick Army Substance Abuse Office conducted training for the Brigade on Suicide Prevention and Substance Abuse.(approx. 60 service members trained)
- Implemented a training requirement for all USU Company Commanders & 1SG/SEAs. Effective immediately, all Company Commanders & SEAs will have to the Company Commander & 1SG Course. The course trains/educate company level commanders and SEAs on their administration, proper accountability, training management, medical, and regulatory responsibilities to enable them to be effective leaders in a garrison environment.
- Small Arms Range Planning is on track for early December at Fort George G. Meade. Projected to qualify 76 shooters in additions to personnel that need their annual qualification for career progression

o READINESS:

- Offered 3 tailored events to support suicide awareness and prevention in the Brigade and beyond, in collaboration with the SWAB.
- The USU Brigade Chaplain’s Office hosted a forum on Spirituality and Racial Justice. Resources and toolkits from four major religions (Christianity, Islam, Buddhism, and Judaism) were provided to all attendees.
- The USU Brigade, in partnership with the Department of Medical & Clinical Psychology,

will host a training session on “Breaking Bias”. Breaking Bias is a USU interactive workshop that helps departments/organizations enhance their awareness of biases and privileges, foster allyship for colleagues with marginalized identities, and make meaningful social change. (Approx. 250 service members trained)

o LEADER DEVELOPMENT:

- Offered 2 tailored events to support conversations and initiatives related to racial justice and racial unity on campus.
- USU Brigade enlisted cadre completed a Professional Development Day with six topics covering leadership, emotional intelligence, AF enlisted EPR bullet writing, voluntary education, and civilian certification via the DoDCOOL program.

o SERVICE & HERITAGE:

- 6 enlisted promotions, AF x 3, Army x 2, Navy x 1
- Conducted Virtual Awards Ceremonies, 15 awards presented
- USU Service Member of the Quarter winners, HM2 Manalac (Junior) and TSgt Hill (Senior).
- AF Element SNCO and NCO of the Quarter Winners, MSgt Konisiewicz and TSgt Howard.
- COVID Awards Panel Process (63 of awards submitted, 49 of awards processed)
- Submitted 3 meritorious advancement nominations to Navy Medicine, 2 of those made it to the final round and are pending results.
- Submitted 2 meritorious promotions nominations to the AF Element, pending results.
- Concept of Operations for BDE PT Plans (COVID Restricted and Regular) in route with the intent raising comradery, military bearing, and morale amongst the BDE Staff & Faculty

o FAMILY SUPPORT & HAVE FUN: have fun – create an environment where people enjoy their job.

5. BRIGADE POLICIES/INITIATIVES

- o PASSED Substance Abuse Program; inspected by Fort Detrick Substance Abuse Program Office.
- o Currently coordinating Staff Assistance Visit (SAV) from USU IG Office.
- o USMC Element (Henderson Hall) Commander visit November(dates tentative).
- o Brigade Command Climate Survey COMPLETED. 27% completion rate.
- o Updated focus on the Services Evaluation System (FITREPs, OPRs, OERs) to reduce lag time, improve accuracy and minimize lateness to appropriate Service MPO.

Current & Future Concerns: Continued to support and input into the University’s Joint Manning Document

Funding/Budget Estimate/Fiscal Impact: Minimal as most staff restructuring will be re-allocated from existing manpower. However, contract/GS positions may be preferred in order to fill short term gaps.

Staffing Impact: Brigade is completing a cost benefit analysis on the potential of hiring a Civilian Director of Military Personnel. Would provide stability and ensure efficiency.

Board Action Requested: None

Supplement

Tab 38

USU Campus South

Subject: Senior Vice President's Report – Southern Region

Date: November 2020

Purpose: Information

Point of Contact:

Thomas W. Travis, MD, MPH

Senior Vice President – Southern Region

(210) 299-8501

Significant Issues:

The Southern Region update (November BOR):

1. On 25 September, JB-San Antonio, which includes Ft Sam, lowered the Health Protection Condition (HPCON) from Charlie to Bravo Plus, effectively opening the base to other than non-essential or mission critical employees. SVP South advised the PDC and CAHS Deans to use their judgement on the number of staff coming into the office and how to stagger their schedules to be able to provide a safe work environment. All are mindful of COVID precautions and are monitoring to assure compliance. Telework and virtual meetings are still the primary methods for accomplishing the day to day mission set.
2. The new Assistant VP for the Southern Region, Col (Retired) Bruce “Pete” Peters is on board and orienting to the missions and people in the Southern Region office.

Staffing/Funding/Budget Estimate/Fiscal Impact: None

Board Action Requested: None at this time; info only

Supplement

Tab 39

USU Campus West

Uniformed Services University of the Health Sciences Board of Regents

Board Brief

Submitted by: Dr. William Roberts

Date: November 2020

Title & Department: Senior Vice President Western Region Phone: 619-532-6671

Purpose:

Information: X

Action _____

Subject: In-Progress Review (SEPTEMBER 2020 – NOVEMBER 2020)

Significant Issues: None

- SVP – W completed the work as Chair of the Vice-President for Research (VPR) Search Committee and forwarded recommendations to USU President Thomas for final interview(s) and deliberation. VPR selected and has USU on board date of 26 Oct.
- SVP-W chaired a USU-IND Brain Bank/CTE Drug Discovery Strategic Session on 22 September. Participants for the latter engagement included Dr. Prusiner, Dr. Perl, Dr. Weinstein, Dr. Nordholm, CAPT Sara Burger (Naval Special Warfare SMO), Dr. Jaffee (Vice Chair, Neurology, UFI and prior senior O-6 USAF neurologist with focus on TBI/TES), Mr Tinling, Dr. Shoemaker, and Ms. Gentile. Pres Thomas was able to join us. SVP-W is reengaging USU team for development of next steps and COAs.
- SVP – W appointed by PRS to lead the USU Middle States Self-Study Steering committee, which also includes Mr. Brian Rimm (co-chair). Mr. Steve Henske (designated IO), Dr. Pat Hyde, and Ms. Lorrie Breen. Chairs and members for working groups suggested by the steering committee are being identified. Steering committee anticipates USU student involvement in the self-study process and participation in working groups.
- SVP –W Co-Chaired the USU/DHA J-7 Senior Strategy Group on 18 Sep. Brig. Gen. Fligge (DHA J-7;Co-Chair) introduced Lt. Col. Stroble as the new Deputy J-7 as well as new team members of the administrative staff at J-7. Representatives from the USU Staff (Dr. Shoemaker, Ms. Breen, Mr. Middleton, Mr. Tinling) and USU Deans were present for the meeting and Dr. Roberts introduced Dr. Pangaro as the Interim Dean for the School of Medicine and Dr. Pelayo as the new Dean of CAHS. All previous topics the SSG considered were discussed and a decision to relook at: Continuing Education, Accreditation, and Distributed Learning (lessons learned from COVID-19) was made. The SSG agreed to meet on a monthly basis going forward.
- SVP-W hosted incoming GSN SRNA students at Naval Medical Center San Diego on 14 September.
- CoS-W co-chaired Distributed Learning Working Group Meetings in September, October, and November. Group continued to refine DL PPM, which CoS-W then presented to the Cabinet. Final PPM in for final staffing for signature by President Thomas. Group also forming a subgroup to refine student responsibilities related to DL, as well as preparation for the accreditation process.
- CoS-W is chairing a USU table top exercise (USU-TTX) that will assess vulnerabilities identified in the USU AAR Report. This USU-TTX group, with senior mentor Dr. Robb (LtGen (ret)), comprises Dr. Shoemaker (USU Strategic Planning), COL Donahue (Bde Commander), MAJ Edwards (Brigade) and MAJ Bustoz (currently NDU student). USU-TTX anticipated to commence in Q2 FY2021.

- CoS-W, along with DHA IT, has successfully piloted G-Suite functional capabilities on DHA workstations for USU Western Region Staff. Following a 5 Oct 2020 meeting with DJA J-6 and USU CIO/CTO it was agreed that the next group to be given G-Suite access will be USU Students. Ultimately, it is anticipated these capabilities will be available to USU Faculty and staff at DHA MTFs.
- CoS-W held Western Region Clerkship Meeting with Site Administrators on 6 August. Main topic of discussion was COVID-19 impact (varying (and changing) ROM requirements, virtual components, etc) on clerkship rotations and ongoing IT challenges. USU-W office is also assisting Naval Medical Center San Diego Site Administration with in-processing/orientation of USU SOM students.
- USU-W Office continued to assist with in-processing of SOM Students.
- Co-Chaired by SVP-W and AVP Bruce Doll, the Indo-Pacific Research Alliance for Military Medicine (IPRAMM) continues to meet monthly. In AUG, SVP-W announced USU PRS approved IPRAMM 5-Year Strategic Plan, recommended distribution among member leadership and began planning for next virtual semiannual meeting. In SEP, IPRAMM welcomed new INDOPACOM Surgeon, RDML Pamela Miller. IPRAMM was selected for a panel discussion at AMSUS and is making preparations for prerecorded panel in December meeting. Members began executing on strategic objectives by proposing IPRAMM interest groups for Testing & Evaluation, Education & Training, and Biomedicine/-Omics. Next monthly meeting is 20 OCT, and 4-hour (virtual) semiannual meeting is anticipated in early December. Participation in monthly meetings remains high: typically, 20+ members representing 16 or more member organizations on each call.
- USU TAGC and PNNL collaboration borne of IPRAMM successfully completed in SEP, most notably establishing a mechanism for exchange of funds from DOE to DoD/USU for research. Success of this pilot project paves the way for future collaborative efforts among IPRAMM members—significantly, exchange of resources between USG research-oriented agencies.
- USU-W ROM represents Western Region on monthly USU Council of Center Directors meetings, presented IPRAMM brief on 2020 USU Centers Forum.

Support to Faculty

- The USU Western Region continues to support USU Faculty in the Western Region (to include CAPT Natalie Burman, MC, USN, dually hatted as Naval Hospital Camp Pendleton staff pediatrician/USU fac dev faculty and Regional Assoc Dean USU SoM). We are continuing to look at recruiting additional USU faculty members (SoM as well as GSN). CAPT Burman is working with USU Main Campus (Drs. Durning and Cervero) to identify candidates for the USU Programs in Education Leadership.

Current & Future Concerns:

N/A

Funding/Budget Estimate/Fiscal Impact:

N/A

Staffing Impact:

N/A

Board Action Requested:

None

Supplement

Tab 40

Registrar

Uniformed Services University of the Health Sciences

Board of Regents

Board Brief

Submitted by: Wendy Lishen, Ed.D, M Ed.

Date: October 8, 2020

Title & Department: AVP, Academic Records and University Registrar

Phone: 301-295-1667

Purpose: Information X

Action

Subject: Academic Records Update

Significant Issues:

1. Registrar Coordination Committee (RCC) Update: The committee has moved to quarterly group meetings one month prior to the Board of Regents (BOR) to track progress on proposing new University policy to strengthen or improve the student information system (SIS). These quarterly meetings are followed by two months of discussion with individual schools/colleges to explore the common needs of all USU students. The proposed policies and instructions will be forwarded to President's Cabinet to support the SIS functionality while schools/colleges continue to create their own policies or procedures that work within the SIS but are tailored to their unique student population.

2021 Goals for the RCC are to address the Middle States Commission on Higher Education (MSCHE) Planning for Standard 5 recommendations on Administration:

"Select and implement a centralized student record system. A modern, robust system for these tasks, with authority and control vested in a single Registrar is essential for USU."

Policies reviewed in August and September: Academic Year and Course Scheduling

- a. Academic Year: Defining the start of the academic year has not been formalized in the SIS which has led to reporting problems for MSCHE and other requests. USU has reported the semester system to MSCHE for over a decade, however, the SIS has four different semester calendars and one quarter calendar which creates data errors when reporting enrollment, retention, and graduation data. The RCC has reached a

consensus that the academic year will start in the summer semester with all programs being categorized as semester regardless of course start and end dates. The proposal will be distributed for approval in October 2020.

- b. Course Scheduling: Over the past two years, the Office of the University Registrar (OUR) and the schools/colleges have identified many student record issues that originate during the course scheduling process which needs to be enhanced. The creation of course scheduling is the foundation to documenting MSCHE Standard 3 – Design and Delivery of the Student Learning Experience. The proposed enhancements will improve faculty and student satisfaction with access to the Learning Management System (LMS); ease of student registration; increased student record accuracy; and improved reporting to MSCHE on Distance Learning courses. The proposal has been reviewed by the RCC and will be distributed for approval in October 2020.
2. University Catalog – In September 2020, USU purchased software with Smart Catalog that will provide one centralized location to publish the University catalog information to meet the MSCHE recommendation for Standard 6 on Integrity: *“Provisions need to be made for archiving catalogues and similar documents so they are readily accessible in electronic form.”* In addition, this software will also provide workflow functionality for the schools/colleges to track curriculum and syllabi proposals.

Planning for the project begins in October 2020 with a tentative publish date of April 2021 for the University catalog.

Current and Future Concerns: Information only.

Funding/Budget Estimate/Fiscal Impact: Information only.

Staffing Impact: Information only.

Board Action Requested: Information only.

Supplement

Tab 41

*Inspector
General*



UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

OFFICE OF THE INSEPTOR GENERAL
4301 JONES BRIDGE ROAD
BETHESDA, MARYLAND 20814-4799
www.usuhs.edu



9 October 2020

MEMORANDUM FOR THE BOARD OF REGENTS

Sub: Annual Report to the Board of Regents

Encl: (1) CY18 and CY19 Hotline and Investigation Summary

1. The Uniformed Services University of the Health Sciences (USU) Office of Inspector General (OIG) is pleased to present the following summary of operations during Fiscal Year 2020 (FY20) to the USU Board of Regents for review.
2. USU OIG Inspections & Evaluation Program:
 - a. An evaluation of the internal controls for the inventory processes for a USU Office was completed February 2020. The evaluation report identified a lack of local internal controls and processes, accountability for access and a lack of sufficient number of personnel to backfill loss of employees and maintain operations. This report, with recommendations for consideration, was presented to the University President. The USU Office reported on responses to and actions taken (completed and planned) in response to the OIG's report. The OIG concurred with the responses and will re-evaluate this matter in 18-24 months.
 - b. The USS OIG initiated an evaluation of operations of the USU Brigade in 4QFY20. This evaluation and final report will complete no later than 2QFY21.
 - c. Per a Hotline Complaint regarding Health and Safety concerns due to COVID (Sept 2020), the USU OIG conducted an evaluation of office practices to maintain employee safety. The USU OIG evaluation found a lack of clear and consistent communication. The USU OIG provided the office with observations and recommendations for more efficient communication and implementation of health and safety practices.
3. USU OIG Hotline and Investigations:
 - a. Calendar Year (CY) 18 and CY19: USU OIG had open Hotline complaints and investigations that carried over into FY20. As of 30 September 2020, all open Hotline complaints and investigations are closed. A summary of these efforts are found in Enclosure 1 of this report.
 - b. The USU OIG Hotline received 53 contacts in FY20. Of those 53 contacts, four remain open for determination, three are open and referred for evaluation, and one is open as a Senior Official Investigation under oversight by DoD OIG,

Investigations, Senior Officials Division¹. Of the remaining 45 Hotline contacts, the average number of days to determination was 26; median 13; range 1-160 days. Sixty-one percent of contacts resulted in assistance and referral. Twenty-three percent were declined or dismissed and 18% were coordinated with DoD OIG for determination.

- i. The USU OIG expects sufficient Hotline complaint data by FY21 to conduct trend analysis of types or categories of complaints. Preliminary analysis suggests that the primary complaints fall under management practices and health and safety concerns.
- c. Seven investigations were closed in FY20: two CY18 cases; four CY19 cases; and one FY20 case. Fifty-percent of allegations (CY18 to FY20) were substantiated and submitted for appropriate administrative action. One FY20 investigation remains open at this time.

4. Communication and Pandemic Response

- a. USU OIG successfully transitioned to a virtual platform for Hotlines, Investigations and Inspections/Evaluation by the end of March 2020. Processes were modified to insure maintenance of confidentiality of complainants and witnesses during video and telephonic interviews. Office operations were also maintained via daily video conferencing during Phases Zero and One of the USU Response Plan and are currently conducted twice weekly with ad hoc as needed.
- b. USU OIG created a Hotline email to enhance USU community access to the OIG. An USU OIG intranet site was built to provide ease of access to information of USU OIG processes, policies and other information sources for the USU community. Finally, USU OIG completed more than 20 “teach and train” session through new employee orientation, all of which were virtual after 17 March 2020.

5. USU OIG Operations

- a. Members of the OIG achieved national association certifications from the Association of Inspectors General and the Association of Certified Fraud Examiners. The University IG is a nationally certified IG and certified fraud examiner and Mr. James Oglesby, Assistant IG, is a nationally certified investigator. Annual continued professional education is required to maintain these certifications. These certifications enhance the knowledge, skills, and abilities brought to bear for the USU community regarding IG functions, particularly prevention and detection of fraud.
- b. USU OIG continues to seek process improvement to maximize efficiencies and effectiveness aligned with the quality standards of the Council of Inspectors

¹ For Hotline contacts, a preliminary inquiry is conducted to determine the processing of the contact/complaint. Determinations may be: assistance, referral, declination/dismissal or full investigation

General for Ethics and Integrity². USU OIG published a Hotline Standard Operating Procedure (SOP) to codify processes in accordance with DoD Hotline and inform the USU Community as to what to expect when filling a Hotline complaint. An Investigations Guide was drafted and plans were developed for an USU OIG Strategic Plan and Inspections & Evaluation Guide. These documents will be completed and published in FY21.

- c. The USU OIG welcomed a U.S. Navy Captain to the office on temporary assignment (two years). While a temporary position, this addition enhances operations especially regarding military processes, practices and insight. The University IG will investigate options to create a permanent military position as well as an additional full-time employee(s) in FY21 in order to serve the USU community fully with a fully staffed OIG. At current staffing, the USU OIG ability to pivot, in a timely and efficient manner, remains a risk.

Rebecca L. Jaworski, PhD, CIG, CFE
University Inspector General

² CIGIE is an independent entity established by the executive branch to among other activities ensure the professionalism of the Inspector General workforce.

Enclosure 1: CY18 and CY19 Hotline and Investigations Summary

1. In CY18 (June to Dec 2018), the USU OIG received 33 contacts of which six were from the DoD Hotline or an outside OIG referral. Of these contacts, 11 were determined for full investigations. Six investigations had substantiated allegations with recommendation for appropriate administrative action; two were under DoD OIG oversight. Operationally the number of days to determination for action (assistance, referral, declination/dismissal, or investigation) were an average of 117 days; median of 48 days; range of 1-490 days. For those contacts that resulted in investigations, the average number of days was 168 days; median of 105 days, and a range of 60 to 639 days from start to closing of the investigation. The DoD OIG standard for investigations is 180 days. Six of the 11 investigations resulted in substantiated allegations submitted for appropriate administrative action.
2. In CY 19 (1 Jan to 30 Sept 2019) had 31 contacts of which 11 were referrals from DoD Hotline or outside OIGs. The average number of days to determination was 140; median 45 days; range 1-433. Twenty-nine percent of contacts resulted in assistance and referral actions. Fifty-eight percent were declined or dismissed. Four contacts resulted in investigation, the average number day to close an investigations was 279; median 239; range 215-425. Two of the four investigations resulted in substantiated allegations submitted for appropriate administrative action.

Supplement

Tab 42

*Office of
Accreditation and
Organizational
Assessment*

**Uniformed Services University of the Health Sciences
Board of Regents**

Board Brief

Submitted by: Stephen J., Henske, MHA **Date:** 03 Nov 2020
Asst. VP, Accreditation & Org. Assessment

Department: Office of Accreditation **Phone** 301-295-3681

Purpose: Information X **Action:** None

Subject: Semi-Annual Report

Significant accreditation/inspection notifications to acknowledge since the May 2020 Report.

1. The fifth “Other Instructional Site” located at [Joint Special Operations Medical Training Center, Ft. Bragg, NC](#) was added to the University’s Institutional Profile on the Middle States Commission on Higher Education Web Site on October 1, 2020.
 2. The reaccreditation site visit of our Public Health Programs is scheduled to take place virtually on December 10 and 11, 202 by the Council on Education for Public Health. The leadership and members of the Department of Preventive Medicine and Biostatistics are in active preparation and have completed the draft of their Self-Study.
 3. At the direction of Dr. Thomas, the University has launched its preparation efforts for the future Middle States Commission’s reaccreditation site visit in early 2023. Timelines and milestones have been identified and subsequent BOR reports will reflect its continued progress.
 4. The Nuclear Regulatory Commission (NRC) conducted a routine inspection of the AFRRI reactor license. The inspection was conducted by our lead NRC manager from Tuesday, 29 Sep, to Thursday, 1 Oct. Key areas of this inspection included records and procedural review of maintenance documents, training, radiation monitoring, radiation safety committee minutes, physical inspection, and review of corrective actions of the cited violations for the missing fission chamber. The inspector identified no violations or issues of concern regarding either the routine reactor inspection or the follow-up inspection.
 5. The US Department of Education’s (USDE) temporary waiver of the requirement for the advanced approval to use distance education as an alternate delivery method expires on December 31, 2020. This temporary waiver approved by (USDE), Office of Postsecondary Education in March 2020 has not been extended as of the date. MSCHE institutions that decide to continue offering 50% or more of an educational program in distance education beyond December 31, 2020 will need to notify the Middle States Commission of any programs (not previously approved) that it plans to continue or add to a distance learning platform in accordance with these guidelines. USU currently has three distance education within their scope of accreditation.
-

Nov 2020

Uniformed Services University of the Health Sciences Board of Regents

Board Brief

Three Bullets

1. The fifth “Other Instructional Site” located at [Joint Special Operations Medical Training Center, Ft. Bragg, NC](#) was added to the University’s Institutional Profile on the Middle States Commission on Higher Education Web Site on October 1, 2020.
2. At the direction of Dr. Thomas, the University has launched its preparation efforts for the future Middle States Commission’s reaccreditation site visit in early 2023. Timelines and milestones have been identified and subsequent BOR reports will reflect its continued progress.
3. The Nuclear Regulatory Commission (NRC) conducted a routine inspection of the AFRRI reactor license. The inspector identified no violations or issues of concern regarding either the routine reactor inspection or the follow-up inspection.

Supplement

Tab 43

Chief Information Officer

Uniformed Services University of the Health Sciences Board of Regents

Board Brief

Submitted by: Timothy J. Rapp Date: 09 Oct 2020

Title & Department: VP, Information & Education Technology/CIO Phone 301.295.4231

Purpose: Information X Action

Subject: Vice President's Report: Information & Education Technology/CIO

1. Significant Issues - None.

2. Current and Future Concerns -

DoD Reform:

- a. DoD Interim Cybersecurity Maturity Model Certification (CMMC): updated information was released 29 September 2020 in the [Federal Register](#) which amends the DFAR to implement a DoD Assessment Methodology and CMMC Framework IOT assess contractor implementation of 800-53 and 800-171 requirements. The goal is to enhance the protection of unclassified information within the DoD supply chain. Under this framework contractors will be required to complete a self-assessment of their compliance before they can receive DoD contracts or have a third party do so. Anticipated full compliance and inclusion in all contracts NLT Fall of 2025.
- b. IT Reform -
 - DoD CIO consolidation and agency migration of common use IT services and assets under a single service provider continues for 4th Estate Defense Agencies and Field Activities (DAFA). As an academic organization, USU is scheduled for Phase III consolidations in the FY22/23 timeframe with planning and governance decisions going through the DoD Academic Information Technology Consortium (DAITC).
 - On 3 September 2020, DoD CIO released the initial report on "Educational Community (EDU) Optimization Effort Opportunity Analysis for Information Technology (IT) Reform", which "outlines five actionable recommendations to reform the EDU community's IT environment. Each of the recommendations are supported by analysis of the 30 EDU organizations across 17 focus areas. Going forward, the DAITC will consider the recommendations and develop an implementation plan to execute IT Reforms for the EDU Community." Example recommendations include:
 - (1) Replace EOL software
 - (2) Contracts consolidation
 - (3) Consolidation of NOC and SOC/Standardized IT environment
 - (4) Consolidation of Service Desk and reduction of Help Desk Technician FTEs

October 2020

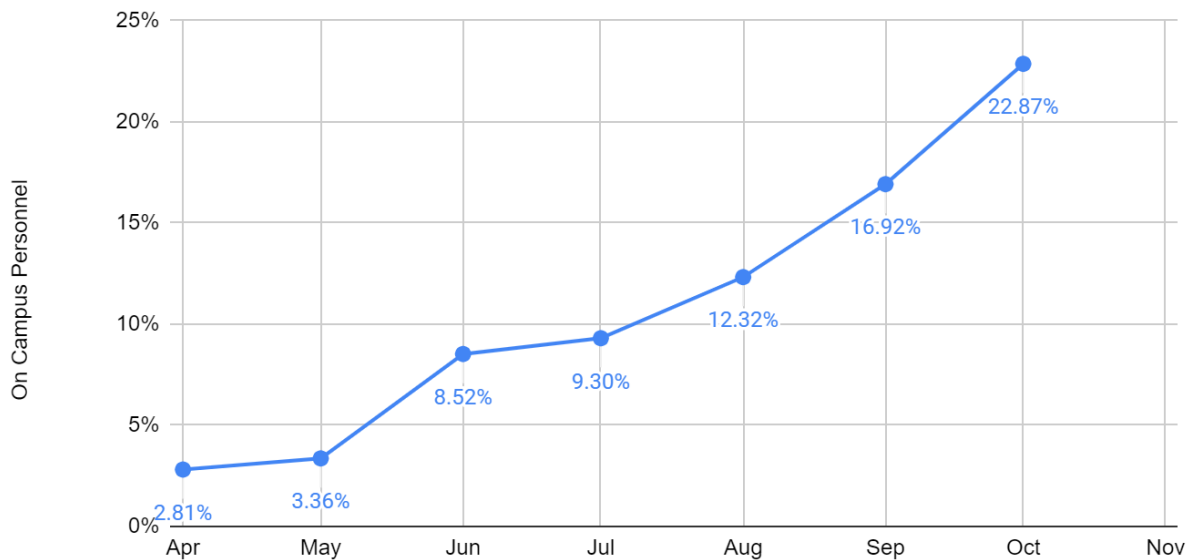
- (5) Possibility of one or more organizations assuming the role of DoD academic service provider
- c. DoD CIO released a [memo](#) 25 September 2020 outlining the plan to expand federated implementation of Office Collaboration Capabilities for all of DoD. The Commercial Virtual Remote (CVR) environment, which is essentially the Microsoft Team web conferencing tool with no other O365 capabilities, was deployed this past spring to address gaps in remote work capabilities. DoD's goal is to deploy a 'minimal viable product' (MVP) prior to the 15 June 2021 expiration date. USU will monitor, but currently has no plans to migrate off of our 10 year+ full collaboration platform which for just the web conferencing capability, has been averaging over 13,000 (54-63 minute each) conferences per month.

COVID-19 Impacts:

- a. USU has not experienced the same COVID-19 related IT operational challenges seen in many other organizations, e.g. inadequate bandwidth, a need to block streaming sites, limit phone forwarding, etc.
- [As Pentagon gears up for more teleworkers, IT network is already strained](#)
 - [DOD bans streaming websites to lessen strain during coronavirus telework](#)
 - [Navy, DoD Networks Strained Under Telework Demand; Leaders Ask 'Limit use of REPLY TO ALL'](#)
 - [Teleworking among feds ramped up but plenty of issues remain](#)
 - [Teleworking boom prompts another cloud rollout from DOD](#)
 - [Coronavirus highlights Coast Guard's issues with IT modernization](#)
- b. Prior year infrastructure upgrades, migration to cloud platforms where appropriate, and adoption of cloud-based collaboration tools almost a decade ago have supported the shift to full time telework and increased distributed learning (DL) usage. As a result, the transition to 100% telework for IT was largely seamless with the biggest impacts coming in the form of rapid training requests and about \$25K in webcams for faculty and staff who did not have them. However, maintaining end-point security with devices off network for an extended period of time remains a challenge. Cyber continues to test possible improvements.
- c. OCIO is currently maintaining an "as needed" presence on campus and will transition some departments and sections to 100% permanent telework post-COVID in order to take advantage of the productivity improvements (e.g. developers) as well as hiring/recruitment benefits. This will also further optimize space.

October 2020

OCIO RC Personnel On Campus Over Time



Access to Needed IT Services from MTF Locations: Students and faculty still struggle to access various academic support/collaboration services from MTF locations, e.g. participant web conferencing tools, YouTube, Google Drive, etc. However, DHA J6, working with OCIO and Dr. Nordholm, have made significant progress recently and a DHA FY20 year-end cloud access security broker (CASB) procurement will allow for a near-future student and billeted faculty pilot.

3. Staffing Impact - Retaining best qualified IT personnel remains a challenge due to the [OPM acknowledged pay gaps](#) between the federal and civilian sectors and a significant D.C. demand for IT and Cyber skill sets. Demand for new grow/transform type projects is being limited to only those with alignment to the USU strategic plan and enterprise-wide impacts.

4. General Information/Updates Since Last OCIO Board Update -

- a. A multi-month VoIP Infrastructure upgrade project was completed which included all local offsite locations as well as SATX. Example improvements included: upgraded of 4 new Cisco Unified Communications Manager (CUCM) servers and 3 VOIP Gateways to include replacement of 3000 outdated VOIP phones; upgrad of Call Manager and Unified Contact Center Express (UCCX) applications; the addition of Interactive Voice Response (IVR) capabilities for the Service Desk and an ongoing deployment of a new RightFax Utility Server which will expand fax services while lowering total costs.
- b. The USU .mil NIPRNet circuit was upgraded from 45Mbps to 1Gbps. While this upgrade is extremely significant, the upgraded .MIL still only has < 1% of the .EDU network's capacity.
- c. The MDL Fiber infrastructure was upgraded from 1 to 10 Gig for enhanced classroom support.

October 2020

- d. An enhanced cloud-based bioinformatics research analytics platform was deployed for GEO and other researcher use.
- e. An Authority To Operate (ATO) for the USUHS.EDU network was successfully extended by the maximum three years with concurrence from the Defense Information Systems Agency (DISA) in their role as the DoD Cyber Security Systems Provider.

5. Board Action Requested: None.

October 2020