

# Uniformed Services University of the Health Sciences



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

***Board of Regents***  
***Quarterly Meeting***

***May 17, 2019***

**BOARD OF REGENTS,  
UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES  
206<sup>th</sup> MEETING**

**May 17, 2019**

**8:00 a.m.**

**Uniformed Services University of the Health Sciences (USU)  
Everett Alvarez, Jr. Board of Regents Room (D3001)  
Bethesda, MD**

**MEETING AGENDA**

**OPEN MEETING**

<b>8:00 a.m.:</b>	<b><u>Meeting Call to Order</u></b> Designated Federal Officer	MAJ Joshua Barricklow
<b>8:00-8:10 a.m.:</b>	<b><u>Opening Comments</u></b> Board of Regents, Uniformed Services University of the Health Sciences (Board) Chair	Dr. Ronald Blanck
<b>8:10-8:15 a.m.:</b>	<b><u>Matters of General Consent</u></b> Declaration of Board Actions Board Chair	Dr. Blanck
<b>8:15-8:25 a.m.:</b>	<b><u>Board Actions</u></b> Degree Granting, F. Edward Hebert School of Medicine (SOM) Dean, SOM Degree Granting, Daniel K. Inouye Graduate School of Nursing (GSN) Dean, GSN Degree Granting, Postgraduate Dental College (PDC) Dean, PDC Degree Granting, College of Allied Health Sciences (CAHS) Dean, CAHS  Faculty Appointments and Promotions, SOM Dean, SOM Faculty Appointments and Promotions, GSN Dean, GSN Faculty Appointments and Promotions, PDC Executive Dean, PDC Faculty Appointments and Promotions, CAHS Dean, CAHS	 Dr. Arthur Kellermann Dr. Carol Romano Dr. Thomas Schneid Dr. Mitchell Seal  Dr. Kellermann Dr. Romano Dr. Schneid Dr. Seal

OPEN MEETING (Continued)

**8:25-8:50 a.m.: President's Report**  
President, USU

Dr. Richard Thomas

**8:50-9:30 a.m.: Member Reports**  
Academics Summary  
Board Member

Dr. Kenneth Moritsugu

*Dr. Woodson will provide the Board with a summary of reports from the Southern Region; Western Region; Armed Forces Radiobiology Research Institute; and Faculty Senate.*

Finance and Administration Summary  
Board Member

Dr. Leo Rouse

*Dr. Rouse will provide the Board with a summary of reports from the Office of Finance and Administration; Office of Information & Education Technology; and University Brigade.*

**9:30-9:45 a.m.: BREAK**

**9:45-10:00 a.m.: SOM Report**  
Dean, SOM

Dr. Kellermann

**10:00-10:15 a.m.: GSN Report**  
Dean, GSN

Dr. Romano

**10:15-10:30 a.m.: PDC Report**  
Executive Dean, PDC

Dr. Schneid

**10:30-10:45 a.m.: CAHS Report**  
Dean, CAHS

Dr. Seal

**10:45-11:00 a.m.: Registrar Report**  
Director, University Registrar

Dr. Wendy Kutchner

**11:00-11:05 a.m.: Alumni Association Report**  
President, USU Alumni Association

Dr. Leon Moores

**11:05-11:15 a.m.: Closing Comments**  
Board Chair

Dr. Blanck

**11:15-11:20 a.m.: BREAK**

**CLOSED MEETING**

**11:20-11:50 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  
206<sup>th</sup> MEETING**

**May 17, 2019  
Bethesda, Maryland**

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**BOARD OF REGENTS,  
UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES  
206<sup>th</sup> MEETING**

**May 17, 2019  
Bethesda, Maryland**

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**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

*Frequency:* One-time, in-person interview.

*Respondent's Obligation:* Voluntary.

This information collection request may be viewed at [reginfo.gov](http://reginfo.gov). Follow the instructions to view Department of Commerce collections currently under review by OMB.

Written comments and recommendations for the proposed information collection should be sent within 30 days of publication of this notice to [OIRA\\_Submission@omb.eop.gov](mailto:OIRA_Submission@omb.eop.gov) or fax to (202) 395-5806.

**Sheleen Dumas,**

*Departmental Lead PRA Officer, Office of the Chief Information Officer, Commerce Department.*

[FR Doc. 2019-05919 Filed 3-27-19; 8:45 am]

**BILLING CODE 3510-22-P**

## DEPARTMENT OF COMMERCE

### National Oceanic and Atmospheric Administration

#### Submission for OMB Review; Comment Request

The Department of Commerce will submit to the Office of Management and Budget (OMB) for clearance the following proposal for collection of information under the provisions of the Paperwork Reduction Act (44 U.S.C. chapter 35).

*Agency:* National Oceanic and Atmospheric Administration (NOAA).

*Title:* Capital Construction Fund Agreement, Certificate Family of Forms and Deposit/Withdrawal Report.

*OMB Control Number:* 0648-0041.

*Form Number(s):* NOAA Form 34-82; NOAA Form 88-14; Certificate Family of Forms.

*Type of Request:* Regular submission (extension of a current information collection).

*Number of Respondents:* 1,000 (NOAA Form 34-82); 50 (NOAA Form 88-14); 550 (Certificate Family of Forms).

*Average Hours per Response:* 3.5 hours (NOAA Form 34-82); 0.5 hours (NOAA Form 88-14); 1.0 hour (Certificate Family of Forms).

*Burden Hours:* 4,075.

*Needs and Uses:* NOAA Form 34-82, NOAA Form 88-14 and the Certificate Family of Forms are used to facilitate meeting the continuing recordkeeping requirements of the Capital Construction Fund (CCF) program. The Merchant Marine Act of 1936, as amended by Public Law 91-469 and Public Law 99-514, provides for the administration of a Capital Construction Fund (CCF) Program by the National

Marine Fisheries Service (NMFS). The CCF is a tax deferral program which allows participating fishermen to defer tax on vessel income deposited into the Fund and provides for recapture of the deferred tax by reducing an Agreement vessel's basis by the amount withdrawn for its construction, acquisition and/or reconstruction. Program requirements are detailed at 50 CFR part 259.

*Affected Public:* Business or other for-profit organizations.

*Frequency:* Once per year (NOAA Form 34-82); Once when applying for program benefits (NOAA Form 88-14); Varies depending on project intent (Certificate Family of Forms).

*Respondent's Obligation:* To remain compliant, active Agreement holders must submit NOAA Form 34-82 along with a copy of their Federal income tax return not later than 30 days after the deadline, with extensions, for filing their tax return. The Certificate Family of Forms is completed prior to project commencement at a minimum of once every ten years. New applicants are required to complete a written Agreement (NOAA Form 88-14) and application related documents in the Certificate Family of Forms only once, as part of their packet submission.

This information collection request may be viewed at [reginfo.gov](http://reginfo.gov). Follow the instructions to view Department of Commerce collections currently under review by OMB.

Written comments and recommendations for the proposed information collection should be sent within 30 days of publication of this notice to [OIRA\\_Submission@omb.eop.gov](mailto:OIRA_Submission@omb.eop.gov) or fax to (202) 395-5806.

**Sheleen Dumas,**

*Departmental Lead PRA Officer, Office of the Chief Information Officer, Commerce Department.*

[FR Doc. 2019-05913 Filed 3-27-19; 8:45 am]

**BILLING CODE 3510-22-P**

## DEPARTMENT OF DEFENSE

### Office of the Secretary

#### Charter Renewal of Department of Defense Federal Advisory Committees

**AGENCY:** Department of Defense.

**ACTION:** Renewal of Federal Advisory Committee.

**SUMMARY:** The Department of Defense is publishing this notice to announce that it is renewing the charter for the Board of Regents, Uniformed Services University of the Health Sciences ("the Board").

**FOR FURTHER INFORMATION CONTACT:** Jim Freeman, Advisory Committee Management Officer for the Department of Defense, 703-692-5952.

**SUPPLEMENTARY INFORMATION:** The Board's charter is being renewed pursuant to 10 U.S.C. 2113a and in accordance with the Federal Advisory Committee Act (FACA) of 1972 (5 U.S.C., Appendix, as amended) and 41 CFR 102-3.50(a). The Board's charter and contact information for the Board's Designated Federal Officer (DFO) can be found at <https://www.facadatabase.gov/FACA/apex/FACAPublicAgencyNavigation>.

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.

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 members. Board members who are full-time or permanent part-time Federal officers or employees will be appointed, pursuant to 41 CFR 102–3.130(a), to serve as regular government employee 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 for travel and per diem as it pertains to official business of the Board.

The public or interested organizations may submit written statements to the Board membership about the Board's mission and functions. Written statements may be submitted at any time or in response to the stated agenda of planned meeting of the Board. All written statements shall be submitted to the DFO for the Board, and this individual will ensure that the written statements are provided to the membership for their consideration.

Dated: March 22, 2019.

**Aaron T. Siegel,**

*Alternate OSD Federal Register, Liaison Officer, Department of Defense.*

[FR Doc. 2019–05906 Filed 3–27–19; 8:45 am]

**BILLING CODE 5001–06–P**

## DEPARTMENT OF DEFENSE

### Office of the Secretary

#### Charter Renewal of Department of Defense Federal Advisory Committees

**AGENCY:** Office of the Secretary, Department of Defense.

**ACTION:** Renewal of Federal Advisory Committee.

**SUMMARY:** The Department of Defense is publishing this notice to announce that it is renewing the charter for the Inland Waterways Users Board (“the Board”).

**FOR FURTHER INFORMATION CONTACT:** Jim Freeman, Advisory Committee Management Officer for the Department of Defense, 703–692–5952.

**SUPPLEMENTARY INFORMATION:** The Board's charter is being renewed pursuant to 33 U.S.C. 2251(a), and in accordance with the Federal Advisory Committee Act (FACA) (5 U.S.C., App) and 41 CFR 102–3.50(a). The Board's charter and contact information for the Board's Designated Federal Officer (DFO) can be found at <https://www.facadatabase.gov/FACA/apex/FACAPublicAgencyNavigation>.

Pursuant to 33 U.S.C. 2251(a), the Board shall be composed of eleven members appointed to serve as representative members. The members shall be selected so as to represent various regions of the country and a spectrum of the primary users and shippers utilizing the inland and intracoastal waterways for commercial purposes. Due consideration shall be given to assure a balance among the members based on the ton-mile shipments of the various categories of commodities shipped on inland waterways. In addition, the Secretary of the Army shall designate, and the Secretaries of Agriculture, Transportation, and Commerce may each designate, a representative to act as an observer of the Board.

Consistent with 33 U.S.C. 2251(a), the Secretary of the Army, as the DoD Sponsor, shall designate one Board member to serve as the Board's Chairperson. The Secretary of Defense, Deputy Secretary of Defense, or the Chief Management Officer for the DoD may approve the appointment of a Vice Chair in accordance with DoD policy. The Chair shall appoint a representative of the Board to serve as an advisor to the project development team for a qualifying project or the study or design of a commercial navigation feature or component of the inland waterways and inland harbors of the United States. The Chair and the project development team member appointed by the Chair may sign the project management plan for the qualifying project or the study or design of a commercial navigation feature or component of the inland waterways and inland harbors of the United States pursuant to 33 U.S.C. 2251(b)(3) and (e).

The Board, in accordance with 33 U.S.C. 2251(b)(2), shall provide advice and recommendations to: a. The Secretary regarding construction and rehabilitation priorities and spending levels prior to the development of the budget proposal of the President for a given fiscal year; b. Congress regarding

any feasibility report for a project on the inland waterway system that has been submitted to Congress pursuant to 33 U.S.C. 2282d; c. Congress regarding an increase in the authorized cost of those features and components; d. Congress regarding construction and rehabilitation priorities and spending levels no later than 60 days after the date of the submission of the budget proposal of the President to Congress; e. and the Secretary and Congress on the development of a long-term capital investment program in accordance with 33 U.S.C. 2251(d).

The Secretary of Defense, pursuant to 33 U.S.C. 2251(c), shall: a. Communicate no less frequently than once each quarter to the Board the status of the study, design, or construction of all commercial navigation features or components of the inland waterways or inland harbors of the United States; and b. submit to the Board a courtesy copy of all completed feasibility reports relating to a commercial navigation feature or component of the inland waterways or inland harbors of the United States.

The public or interested organizations may submit written statements to the Board's membership about the Board's mission and functions. Written statements may be submitted at any time or in response to the stated agenda of planned meeting of the Board. All written statements shall be submitted to the DFO for the Board, and this individual will ensure that the written statements are provided to the membership for their consideration.

Dated: March 22, 2019.

**Aaron T. Siegel,**

*Alternate OSD Federal Register, Liaison Officer, Department of Defense.*

[FR Doc. 2019–05915 Filed 3–27–19; 8:45 am]

**BILLING CODE 5001–06–P**

## DEPARTMENT OF EDUCATION

[Docket ID Number ED–2019–IES–0017]

### Proposed Priorities for the Institute of Education Sciences and Request for Comment

**AGENCY:** Institute of Education Sciences, U.S. Department of Education.

**ACTION:** Notice.

**SUMMARY:** The Director of the Institute of Education Sciences (IES) proposes priorities to guide IES' work and provides a 60-day period for members of the public to review and comment on them. When the Director submits the priorities to the National Board for Education Sciences (the Board) for its

## **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 Armed Services and provided they are appointed in advance and in writing. 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 member) 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. These appointments will be renewed annually on the anniversary of the original appointment date.

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.

#### *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, 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;

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;

E. Provide its advice on policies and procedures intended to ensure that USU maintains appropriate accreditation requirements;

F. Consider recommendations made by USU Committees on Appointments, Promotion, and Tenure and provide its advice on these recommendations to the USU President;

G. Consider recommendations made to establish new academic programs at USU. (Recommendations for new programs will be read into the minutes at the Board meeting when they are first presented. Advice on whether or not to approve new programs will ordinarily be provided to the USU President at the next regularly scheduled Board meeting.); and

H. Perform other duties as deemed appropriate and within its Charter, to include (1) assessing and providing advice to 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; and the adequacy of USU's physical facilities; and (2) serving as an advocate for USU and its needs.

#### *Article V*

Advisors. Advisors to the Board shall include:

- A. USU deans;
- B. Commanders of representative teaching hospitals, as selected by the Board;
- 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 either standing or ad hoc preparatory groups as necessary.

B. Purpose: Board preparatory groups shall be responsible for review and summary of assigned meeting materials which they will then present 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.

A. 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.

### *Article VII*

#### Awards.

A. Board of Regents Awards: The Board may annually recognize four outstanding students if selected by the Dean, School of Medicine; the Dean, Graduate School of Nursing; the Associate Dean, Graduate Education; 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 nonendorse 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 nonendorse 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 BOR 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

*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 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) 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 and in writing.

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 1, 2017, and supersede previously published bylaws dated May 20, 2016.

A handwritten signature in dark ink, appearing to read "Ronald R. Blanck". The signature is stylized with large, bold letters and a prominent "R".

Ronald R. Blanck, D.O.  
Chair, Board of Regents

## **TAB 4**

### *Current Membership*



# BOARD OF REGENTS

## UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

### CURRENT MEMBERSHIP

<b><u>NAME</u></b>	<b><u>TITLE</u></b>	<b><u>TERM EXP</u></b>
Ronald R. Blanck, D.O.	Chair, Board of Regents	June 20, 2019 <sup>c</sup>
Honorable Sheila P. Burke, R.N., M.P.A.	Member, Board of Regents	July 19, 2023 <sup>c</sup>
Michael M.E. Johns, M.D.	Member, Board of Regents	June 20, 2019 <sup>c</sup>
Kenneth P. Moritsugu, M.D., M.P.H.	Member, Board of Regents	June 20, 2019 <sup>c</sup>
Honorable Charles S. Robb, J.D.	Member, Board of Regents	November 4, 2021 <sup>b</sup>
Leo E. Rouse, D.D.S.	Member, Board of Regents	May 13, 2021 <sup>b</sup>
Honorable Gail R. Wilensky, Ph.D.	Member, Board of Regents	June 20, 2019 <sup>c</sup>
Honorable Jonathan Woodson, M.D.	Member, Board of Regents	June 20, 2019 <sup>a</sup>
Thomas P. McCaffery, M.P.P.	Secretary of Defense Designee and Principal Deputy Assistant Secretary of Defense for Health Affairs*	Ex Officio
Richard W. Thomas, M.D., D.D.S.	President, USU**	Ex Officio
LTG Nadja Y. West, MC, USA	Surgeon General, United States Army	Ex Officio
VADM C. Forrest Faison, 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
VADM Raquel C. Bono, MC, USN	Director, Defense Health Agency	Advisor
RADM Colin G. Chinn, MC, USN	Joint Staff Surgeon	Advisor
RDML Gayle D. Shaffer, DC, USN	Medical Officer of the Marine Corps	Advisor
MG Ronald J. Place, MC, USA	Director, National Capital Region Medical Directorate	Advisor
CAPT Mark A. Kobelja, MC, USN	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
Arthur L. Kellermann, M.D., M.P.H.	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
Mitchell J. Seal, Ed.D., R.N.	Dean, College of Allied Health Sciences	Advisor
CAPT John R. Gilstad, MC, USN	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	
Joshua Barricklow	Designated Federal Officer	

<sup>a</sup> – currently serving predecessor's term; <sup>b</sup> – currently serving first term; <sup>c</sup> – currently serving second term

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

\*\*The President, USU is a non-voting ex officio member as defined by statute.

## **TAB 5**

### *Board Meeting Calendar*

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

***Board Meeting Calendar (2019-2020)***

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

<b>Preparatory Session</b>	<b>Meeting of Record</b>
<del>Monday, February 4, 2019</del> <b>CANCELED</b>	<del>Tuesday, February 5, 2019</del> <b>CANCELED</b>
Thursday, May 16, 2019	Friday, May 17, 2019
Monday, August 5, 2019 – <b>San Diego, CA</b>	Tuesday, August 6, 2019 – <b>San Diego, CA</b>
Monday, November 4, 2019	Tuesday, November 5, 2019
Monday, February 3, 2020	Tuesday, February 4, 2020
Thursday, May 14, 2020	Friday, May 15, 2020
Monday, August 3, 2020	Tuesday, August 4, 2020
Monday, November 2, 2020	Tuesday, November 3, 2020

- Saturday, May 18, 2019 – Class of 2019 Commencement
- Saturday, May 16, 2020 – Class of 2020 Commencement

***Faculty Packet Due Dates (2019-2020)***

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

<b>Meeting of Record</b>	<b>Faculty Packets Due to CHR</b>
<del>February 5, 2019</del> <b>CANCELED</b>	December 26, 2018
May 17, 2019	April 5, 2019
August 6, 2019	June 25, 2019
November 5, 2019	September 24, 2019
February 4, 2020	December 23, 2019
May 15, 2020	April 3, 2020
August 4, 2020	June 23, 2020
November 3, 2020	September 22, 2020

## **TAB 6**

### *Closed Session Determination*



PERSONNEL AND  
READINESS

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

APR 23 2019

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

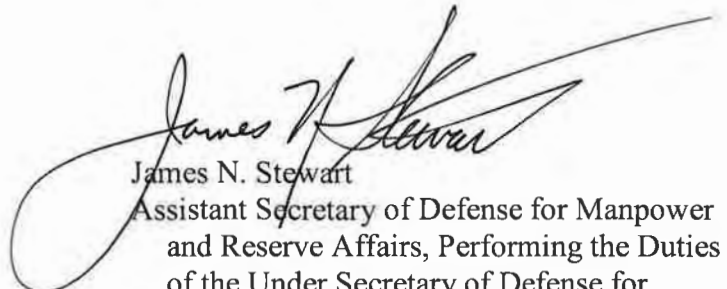
SUBJECT: Determination to Close a Portion of the Spring Board of Regents, Uniformed  
Services University of the Health Sciences Meeting on May 17, 2019

I find that the request to close a portion of the spring meeting of the Board of Regents (Board), Uniformed Services University of the Health Sciences (University), from roughly 11:20 a.m. until 11:50 a.m. on May 17, 2019 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 C.F.R. § 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 DoD Instruction 5105.04.

  
James N. Stewart  
Assistant Secretary of Defense for Manpower  
and Reserve Affairs, Performing the Duties  
of the Under Secretary of Defense for  
Personnel and Readiness

# **TAB 7**

*Federal Register Notice*

**DEPARTMENT OF DEFENSE****Department of the Air Force****Addendum to the 26 June 2014 Record of Decision for the Final Environmental Impact Statement F-35 Beddown at Eglin Air Force Base, Florida**

**AGENCY:** Department of the Air Force, Department of Defense.

**ACTION:** Notice of availability.

**SUMMARY:** On April 19, 2019, the United States Air Force signed an Addendum to the 26 June 2014 Record of Decision for the Final F-35 Beddown Supplemental Environmental Impact Statement (SEIS). This Addendum to the 26 June 2014 Record of Decision (AROD) documents the Air Force's decision regarding temporarily shifting the primary runway to Runway 01/19 (RW 01/19) and allowing short-term increases in previously limited operations for construction-related closure of Runway 12/30 (RW 12/30).

**ADDRESSES:** For questions regarding this AROD please contact: Mr. Mike Spaits, Eglin AFB Public Affairs Office, 96 TW/PA, 101 West D Avenue, Room 238, Eglin AFB, FL 32542-5499; telephone: (850) 882-2836; or email: [spaitsm@eglin.af.mil](mailto:spaitsm@eglin.af.mil).

**SUPPLEMENTARY INFORMATION:** This AROD augments the ROD signed on 26 June 2014, for an approximately forty-five day period of RW 12/30 closure for necessary construction planned for April 19, 2019 to June 3, 2019.

The Final SEIS was made available to the public on February 28, 2014 through a NOA in the **Federal Register** (Volume 79, Number 40, Page 11428) with a wait period that ended on March 31, 2014. The 26 June 2014 SEIS ROD was made available to the public, through a NOA in the **Federal Register** (Volume 79, Number 131, Page 38857), on July 9, 2014.

**Authority:** This NOA is published pursuant to the relevant subsection of the regulations (40 CFR part 1506.6(b)(2)) implementing the provisions of the NEPA of 1969 (42 U.S.C. 4321, *et seq.*) and the relevant subsections of the Air Force's Environmental Impact Analysis Process (EIAP) (32 CFR parts 989.21(b) and 989.24(b)(7)).

**Carlinda N. Lotson,**

*Air Force Federal Register Liaison Officer.*  
[FR Doc. 2019-09312 Filed 5-6-19; 8:45 am]

**BILLING CODE 5001-10-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, 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 of Regents, Uniformed Services University of the Health Sciences (USU) will take place.

**DATES:** Friday, May 17, 2019 open to the public from 8:00 a.m. to 11:15 a.m. The closed session will occur from approximately 11:20 a.m. to 11:50 a.m.

**ADDRESSES:** Uniformed Services University, 4301 Jones Bridge Road, Bethesda, MD 20814.

**FOR FURTHER INFORMATION CONTACT:**

Joshua Barricklow, Designated Federal Officer, (301) 295-9805 (Voice), [joshua.barricklow@usuhs.edu](mailto:joshua.barricklow@usuhs.edu) (Email). Mailing address is 4301 Jones Bridge Road, D3001, Bethesda, Maryland 20814. Website: <https://www.usuhs.edu/vpe/bor>.

**SUPPLEMENTARY INFORMATION:** Due to circumstances beyond the control of the Department of Defense (DoD) and the Designated Federal Officer, the Board of Regents, Uniformed Services University of the Health Sciences was unable to provide public notification required by 41 CFR 102-3.150(a) concerning the meeting on May 17, 2019 of the Board of Regents, Uniformed Services University of the Health Sciences. Accordingly, the Advisory Committee Management Officer for the Department of Defense, pursuant to 41 CFR 102-3.150(b), waives the 15-calendar day notification requirement.

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 Under Secretary of Defense for Personnel and Readiness, 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 actions scheduled to occur include the review of the electronic vote from January 25, 2019 (recommendations regarding the awarding of undergraduate and graduate degrees, recommendations regarding the approval of faculty appointments and promotions, recommendations regarding award nominations, and recommendations regarding new undergraduate programs and instructional sites); the electronic vote from March 13, 2019 (honorary degree recommendation); the electronic vote from April 8, 2019 (recommendations regarding the approval of faculty appointments); and the electronic vote from April 23, 2019 (Distinguished Service Award nomination recommendations). The USU President will provide a report on recent actions affecting academic and operational aspects of USU. Member reports will include an Academics Summary consisting of reports from the Senior Vice President of the Southern Region, Senior Vice President of the Western Region, Director of the Armed Forces Radiobiology Research Institute, and the President of the USU Faculty Senate. Member Reports will also include a Finance and Administration Summary consisting of reports from the Vice President for Finance and Administration, Vice President for Information & Education Technology, and the Commanding Officer of the USU Brigade.

Additional reports will be provided by the Dean of the F. Edward Hébert School of Medicine, Dean of the Daniel K. Inouye Graduate School of Nursing, Executive Dean of the Postgraduate Dental College, Dean of the College of Allied Health Sciences, USU Registrar, and President of the USU Alumni Association. A closed session will be held, after 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) and the availability of space, the meeting is open to the public from 8:00 a.m. to 11:15 a.m. Seating is on a first-come basis. Members of the public wishing to attend the meeting should contact Mr. Barricklow, no later than five business days prior to the meeting, at the address and phone number noted in the **FOR**

**FURTHER INFORMATION CONTACT** section. Pursuant to 5 U.S.C. 552b(c)(2), 5–7, the DoD has determined that the portion of the meeting from 11:20 a.m. to 11:50 a.m. shall be closed to the public. The Under Secretary of Defense (Personnel and Readiness), in consultation with the Department of Defense 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 Federal Advisory Committee Act of 1972 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 Mr. Barricklow at the address listed in the **FOR FURTHER INFORMATION CONTACT** section. Written statements that do not pertain to a scheduled meeting of the Board may be submitted at any time. However, if individual comments pertain to a specific topic being discussed at the planned meeting, then these statements must be received at least five calendar days prior to the meeting, otherwise, the comments may not be provided to or considered by the Board until a later date. The Designated Federal Officer will compile all timely submissions with the Board's Chair and ensure such submissions are provided to Board Members before the meeting.

Dated: May 2, 2019.

Aaron T. Siegel,

Alternate OSD Federal Register Liaison Officer, Department of Defense.

[FR Doc. 2019–09342 Filed 5–6–19; 8:45 am]

BILLING CODE 5001–06–P

## DEPARTMENT OF EDUCATION

[Docket No.: ED–2019–ICCD–0020]

**Agency Information Collection Activities; Submission to the Office of Management and Budget for Review and Approval; Comment Request; NCES System Clearance for Cognitive, Pilot, and Field Test Studies 2019–2022**

**AGENCY:** Institute of Education Sciences (IES), Department of Education (ED).

**ACTION:** Notice.

**SUMMARY:** In accordance with the Paperwork Reduction Act of 1995, ED is proposing an extension of an existing information collection.

**DATES:** Interested persons are invited to submit comments on or before June 6, 2019.

**ADDRESSES:** To access and review all the documents related to the information collection listed in this notice, please use <http://www.regulations.gov> by searching the Docket ID number ED–2019–ICCD–0020. Comments submitted in response to this notice should be submitted electronically through the Federal eRulemaking Portal at <http://www.regulations.gov> by selecting the Docket ID number or via postal mail, commercial delivery, or hand delivery. If the [www.regulations.gov](http://www.regulations.gov) site is not available to the public for any reason, ED will temporarily accept comments at [ICDocketMgr@ed.gov](mailto:ICDocketMgr@ed.gov). Please include the docket ID number and the title of the information collection request when requesting documents or submitting comments. *Please note that comments submitted by fax or email and those submitted after the comment period will not be accepted.* Written requests for information or comments submitted by postal mail or delivery should be addressed to the Director of the Information Collection Clearance Division, U.S. Department of Education, 550 12th Street SW, PCP, Room 9089, Washington, DC 20202–0023.

**FOR FURTHER INFORMATION CONTACT:** For specific questions related to collection activities, please contact Kashka Kubzdela, 202–245–7377.

**SUPPLEMENTARY INFORMATION:** The Department of Education (ED), in accordance with the Paperwork Reduction Act of 1995 (PRA) (44 U.S.C. 3506(c)(2)(A)), provides the general public and Federal agencies with an opportunity to comment on proposed, revised, and continuing collections of information. This helps the Department assess the impact of its information collection requirements and minimize the public's reporting burden. It also helps the public understand the Department's information collection requirements and provide the requested data in the desired format. ED is soliciting comments on the proposed information collection request (ICR) that is described below. The Department of Education is especially interested in public comment addressing the following issues: (1) Is this collection necessary to the proper functions of the Department; (2) will this information be processed and used in a timely manner;

(3) is the estimate of burden accurate; (4) how might the Department enhance the quality, utility, and clarity of the information to be collected; and (5) how might the Department minimize the burden of this collection on the respondents, including through the use of information technology. Please note that written comments received in response to this notice will be considered public records.

**Title of Collection:** NCES System Clearance for Cognitive, Pilot, and Field Test Studies 2019–2022.

**OMB Control Number:** 1850–0803.

**Type of Review:** An extension of an existing information collection.

**Respondents/Affected Public:** Individuals or Households.

**Total Estimated Number of Annual Responses:** 600,000.

**Total Estimated Number of Annual Burden Hours:** 240,000.

**Abstract:** This is a request for a 3-year renewal of the generic clearance to allow the National Center for Education Statistics (NCES) to continue to develop, test, and improve its survey and assessment instruments and methodologies. The procedures utilized to this effect include but are not limited to experiments with levels of incentives for various types of survey operations, focus groups, cognitive laboratory activities, pilot testing, exploratory interviews, experiments with questionnaire design, and usability testing of electronic data collection instruments.

Dated: May 1, 2019.

Stephanie Valentine,

PRA Clearance Coordinator, Information Collection Clearance Program, Information Management Branch, Office of the Chief Information Officer.

[FR Doc. 2019–09246 Filed 5–6–19; 8:45 am]

BILLING CODE 4000–01–P

## DEPARTMENT OF ENERGY

**Environmental Management Site-Specific Advisory Board, Northern New Mexico**

**AGENCY:** Office of Environmental Management, Department of Energy (DOE).

**ACTION:** Notice of open meeting.

**SUMMARY:** This notice announces a meeting of the Environmental Management Site-Specific Advisory Board (EM SSAB), Northern New Mexico. The Federal Advisory Committee Act requires that public notice of this meeting be announced in the **Federal Register**.



## **TAB 8**

*Chair's Opening Comments*

## **Chair's Opening Comments**

- Welcome
- Board Charter and Membership Balance Plan Renewal
- Next Board Meeting – Summer 2019
- Board of Regent Vacancies
- Board Meeting Calendar at Tab 5
- Closed Session Meeting
- Dr. Jonathan Woodson Military Recognition

**TAB 9**

*Previous Meeting Minutes*

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

**Meeting No. 205  
November 6, 2018**

The Board of Regents (Board), Uniformed Services University of the Health Sciences (USU) met on November 6, 2018, at the USU Everett Alvarez Jr. Board of Regents Room (D3001), 4301 Jones Bridge Road, Bethesda, MD. 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 L. Longacre, M.D., was present during the meeting along with the Designated Federal Officer (DFO), Mr. Joshua A. Barricklow. The meeting was called to order at 8:03 a.m. Members and advisors listed below were in attendance:

**Board Members**

Ronald R. Blanck, D.O., Chair  
Honorable Sheila P. Burke, R.N., M.P.A., Member  
Michael M.E. Johns, M.D., Member  
Kenneth P. Moritsugu, M.D., M.P.H., Member  
Honorable Charles S. Robb, J.D., Member  
Leo E. Rouse, D.D.S., Member  
Honorable Gail R. Wilensky, Ph.D., Member  
Honorable Jonathan Woodson, M.D., Member  
Terry M. Rauch, Ph.D., Representing the Assistant Secretary of Defense for Health Affairs  
(Secretary of Defense designee)  
Richard W. Thomas, M.D., D.D.S., President, USU  
BG Joseph A. Marsiglia, MSC, USA, Representing the Surgeon General of the U.S. Army  
RDML Darin K. Via, MC, USN, Representing the Surgeon General of the U.S. Navy  
Maj Gen Robert I. Miller, USAF, MC, Representing the Surgeon General of the U.S. Air Force  
RADM Sylvia Trent-Adams, USPHS, Representing the Surgeon General of the United States

**Advisors to the Board**

Gen Thomas R. Morgan, USMC, Ret., Military Advisor to the Board  
MG Ronald J. Place, MC, USA, Director, National Capital Region Medical Directorate  
CAPT John R. Gilstad, MC, USN, Director, Armed Forces Radiobiology Research Institute  
(AFRRI), USU  
CAPT Mark A. Kobelja, MC, USN, Director, Walter Reed National Military Medical Center  
Thomas W. Travis, M.D., M.P.H., Senior Vice President, Southern Region, USU  
William M. Roberts, M.D., M.B.A., Senior Vice President, Western Region, USU  
Arthur L. Kellermann, M.D., M.P.H., Dean, F. Edward Hébert School of Medicine (SOM), USU  
Carol A. Romano, Ph.D., R.N., Dean, Daniel K. Inouye Graduate School of Nursing (GSN), USU  
Thomas R. Schneid, D.M.D., M.S., Executive Dean, Postgraduate Dental College (PDC), USU  
Mitchell J. Seal, Ed.D., R.N., Dean, College of Allied Health Sciences (CAHS), USU  
Steven J. Weiss, J.D., Representing the Legal Advisor to the Board

**OPENING COMMENTS**

Dr. Blanck welcomed the Board, Advisors and representatives to the USU Board meeting. The following points were included in Dr. Blanck's remarks:

- The next Board of Regents meeting will be held on February 4-5, 2019 in San Diego, California. Travel arrangements and accommodations for the Board members will be coordinated by the Executive Secretary to the Board and the Designated Federal Officer.
- The recent passing of Dr. Colleen Conway-Welch, a former USU Regent from 2006 to 2011.
- Regarding the vacancy created by the death of GEN (Ret.) Ronald Griffith, there are three individuals who have been identified as prospective Regents (two Army, one Air Force). Their packets are being reviewed presently, with the hope that a Regent will be appointed by the February meeting.
- The Board self-assessment will be completed at the February meeting, along with discussions on possible replacements for Regents nearing their term expirations. There is some confusion on when the term expirations are and that is being worked through legal channels presently.
- USU courtyard bricks are available for the Regents to purchase. GEN Griffith has two bricks and both will be installed in the coming weeks.
- The meeting calendar is located at Tab 5.
- The closed session approval is awaiting final signature and the expectation is it will be signed in time for the closed session to be held.

#### **MATTERS OF GENERAL CONSENT**

Dr. Blanck presented two matters of general consent:

- Minutes of the August 14, 2018 meeting at Tab 10
- Declaration of Board Actions (items electronically approved between the August meeting and this meeting) at Tabs 11-12

Upon motion duly made and seconded, the Board

**Vote by voice vote:** Approved the matters of general consent as presented by Dr. Blanck.

#### **BOARD ACTIONS**

##### **Degree Granting – SOM Medical and Graduate Education Students**

Dean Kellermann presented for endorsement three candidates for advanced degrees in the graduate education program within the School of Medicine. The appropriate documentation is located at Tab 13.

Upon motion duly made and seconded, the Board

**Vote by voice vote:** Concurred with the recommendations as presented by Dean Kellermann.

##### **Degree Granting – GSN**

Dean Romano presented for endorsement one candidate for the degree of Doctor of Nursing Science. The appropriate documentation is located at Tab 14.

Upon motion duly made and seconded, the Board

**Vote by voice vote:** Concurred with the recommendation as presented by Dean Romano.

### **Faculty Appointments and Promotions – SOM**

MG Ronald Place was asked to step out of the room. Dr. Kellermann presented the recommendations, located at Tab 15, made by the SOM Committee on Appointments, Promotion and Tenure (MG Place was one of the nominees). Twenty-nine individuals were recommended for a faculty appointment or promotion at a Committee on Appointments and Promotions meeting held on September 17, 2018.

Upon motion duly made and seconded, the Board

**Vote by voice voted:** Concurred with the recommendations as presented by Dean Kellermann.

### **Faculty Appointments and Promotions – PDC**

Dean Schneid presented a recommendation, located at Tab 16, made by the PDC Committee on Appointments and Promotions at a meeting held on September 21, 2018. Five individuals were recommended for a faculty promotion.

Upon motion duly made and seconded, the Board

**Vote by voice voted:** Concurred with the recommendation as presented by Dean Schneid.

### **Faculty Appointments and Promotions – CAHS**

Dr. Yvonne Maddox was asked to step out of the room (Dr. Maddox was the nominee). Dean Seal presented a recommendation, located at Tab 17, made by the CAHS Committee on Appointments and Promotions of Faculty at a meeting held on June 29, 2018. One individual was recommended for a faculty appointment.

Upon motion duly made and seconded, the Board

**Vote by voice voted:** Concurred with the recommendation as presented by Dean Seal.

### **Faculty Awards – SOM**

Dean Kellermann presented the nomination, located at Tab 18, for Dr. William Gilliland to receive the University Distinguished Service Award. The nomination had been endorsed by the Chair of the Names and Honors Committee on August 23, 2018.

Upon motion duly made and seconded, the Board

**Vote by voice voted:** Concurred with the recommendation as presented by Dean Kellermann.

### **USU PRESIDENT'S REPORT**

The following points were presented during President Thomas' report to the Board:

- The Defense Medical Ethics Center has been established and chartered and the University has selected Dr. Fred Lough (COL, MC, USA) to be its director. Staffing continues to be worked through. Additionally, the Center for Military Medical Professional Development (CMMPD) is a concept being reviewed, comprising several entities, including the Defense Medical Ethics Center, as well as curriculum oversight for both Leadership Development and Military History. Dr. Thomas is considering naming the CMMPD after General (Ret.) Ronald Griffith.

- The Enterprise-wide TBI Initiative is continuing to be established and supported, with the University being tasked to develop the overall strategy and to leverage the Blast Center and the Brain Repository. Dr. Brody and Dr. Maddox will be the University leads on the initiative.
- The President's Leadership Series continues to excel. Most recently, the University hosted Dr. Hal Kushner on September 21. The series will continue in January with a leadership panel, including Ms. Stephanie Barna, VADM Raquel Bono, Lt Gen Dorothy Hogg, BG Telita Crosland, and Dr. Carol Romano.
- The NDAA 19 Joint Education and Training feasibility study is being drafted to discuss the future of education and training across the MHS. Dr. William Roberts is the University lead on this initiative. Dr. Roberts noted that the first IPR for the study was held on November 5; he noted progress. Dr. Woodson inquired about how the Institute for Defense Analyses, an FFRDC, is scoping the study and encouraged University senior leadership to discuss the scoping and ensure they have unity of effort in helping to shape the scope in support of the mission sets of the University. Ms. Burke asked if discussions in this feasibility study include anything from Veterans Affairs (VA), with concern that the VA might consider starting its own medical school.
- The Reform Management Study's initial report, with recommendations, should be ready by mid-January 2019. The focus continues to review what it costs for the University to produce a medical student, while also looking to get additional data for the Services to compare that cost with HPSP costs, as well as Direct Accession costs. Dr. Johns asked if it's possible for the education and research pieces to be separated because that would provide a more accurate cost as it relates to medical education costs.
- The FY 2018 closeouts for both GFEBS and DAI were successful, with a 99.9 % obligation rate. FY 2019 funds were loaded and department budgets were distributed with no issues.
- The legislative proposals regarding the Academic Health System (AHS) and endowments continue through the OLC process. They have left DoD and are at OMB. For endowments, Dr. Thomas discussed allowing the University to shift to no year funds (year of receipt plus two years), which would help with spending and obligations.
- The Building F construction has completed the 35% design milestone, along with intensive equipment review ongoing. The University continues to work with NAVFAC and NSAB on the budgeting and construction timeline. Mr. Bond discussed the latest proposal to complete the parking garage and prep work for vertical construction in FY 2020, with vertical construction being complete at a later date. Another option is to propose fully funding the project in FY 2020, but that has significant challenges from a funding perspective. Dr. Thomas mentioned NAVFAC's and NSAB's concern with construction fatigue occurring on the installation.
- The new Academic Programs Policy is going to streamline the process in how new program proposals are reviewed and approved within the University, to ensure accreditation guidelines and requirements are being met. Dr. Blanck asked for clarification on when the Board would be brought in to the process and was informed it would be after the program proposal was fully analyzed, but prior to becoming operational.

## **MEMBER REPORTS – ACADEMICS SUMMARY**

Dr. Michael Johns noted the following information:

- Office of Accreditation and Organizational Assessment. Four accreditations through the PDC, along with multiple sub-accreditations, have all been approved without issue. The Nuclear Regulatory Commission completed its Safety and Compliance Inspection without any violations and was approved. The Commission on Collegiate Nursing Education completed a site visit; during the out brief, the GSN was notified there were no findings of non-compliance, although the final report is still pending.
- Office of the University Registrar. The new University Registrar has discovered numerous challenges, to include increasing data integrity and record accuracy, such as grades not being recorded. Identification and resolution of these issues will greatly benefit the University.
- Armed Forces Radiobiology Research Institute (AFRRI). The strategic reset continues to focus on leadership and education, specifically in the areas of radiation exposure and policies. The Non-Human Primate reduction plan continues to progress, with the phase-out being complete within the next five to twenty years. AFRRI is working with the National Academies of Science, Engineering and Medicine in support of the 2019 Low Dose Radiation Research Symposium.
- Faculty Senate. The Fall Faculty Assembly focused on civility, inclusivity, and equality. The 2019 Packard Lecture will be presented by Dr. Jennifer Doudna. The 2018 Wu Award for Excellence in Basic Research was awarded to Dr. David Scott. The 2018 Leonard Award for Excellence in Clinical or Translational Research was awarded jointly to Dr. Edward Mitre and Dr. Cade Nylund. The Task Force for Inclusivity, a subcommittee of the Comparability and Faculty Welfare Committee, is looking to engage and educate USU faculty on gender bias inequality.
- Animal Research Space. There was a discussion about the challenge of not having adequate animal facilities (or animal containment) space and its impact on the ability to conduct animal research, creating concern among the faculty. Dr. Thomas commented that a committee is in place to help shape the way ahead, considering all the renovations at AFRRI and the lab on the campus. Dr. Blanck encouraged the need to explore the possibility of using NIH lab space or WRAIR lab space.
- Dr. Nogi Update. The National Academy of Medicine (NAM) has a proposal on continuous ethical conduct of its members pending membership vote that allows them to remove someone from NAM membership. A vote on the proposal is expected soon and the result may have an impact on the Nogi case. Dr. Blanck thanked Dr. Johns for the update, but deferred further discussion on this issue until the closed session.
- RADM Sylvia Trent-Adams was elected to the NAM.

## **MEMBER REPORTS – FINANCE AND ADMINISTRATION SUMMARY**

Dr. Leo Rouse noted the following points:

- Southern Region. The region hosted several Distinguished Visitors, including Maj Gen Payne (DHA J-3), Brig Gen Bannister (DHA J-7) and CMSAF Wright. Dr. Thomas approved a charter for the Deans' Quarterly Council, which will be co-chaired by the University's Senior Vice Presidents. The region hosted as off-site visit for USU-South mission leaders to project a five-year plan for mission growth and requirements. Dr. Travis noted that office space options were discussed in recent meetings and continue to be a priority for the Region going forward.



- Western Region. The Region participated in the 4<sup>th</sup> Annual Asia Pacific Military Health Exchange in China, an event co-hosted by the INDOPACOM Surgeon and PRC PLA senior leadership. Twenty-six Partner Nations sent delegates. The Indo-Pacific Research Alliance for Military Medicine teleconference was co-hosted by the Region and the University's Office of Research in Hawaii. The Region continues to meet with students at clerkship orientations.
- Finance and Administration. As noted earlier, FY 2018 was closed out with a 99.9% obligation rate. FY 2019 began with a full appropriation, with DHA providing an automatic apportionment to allow finance operations to continue until full 1<sup>st</sup> quarter funds are received. The Kearney & Co. audit is entering a new phase, with the receipt of multiple sample requests and efforts to ensure the University's documentation supports the transactions.
- Henry Jackson Foundation (HJF). Initial reports of \$224M in 2018 research spending shows a 3 percent increase from 2017 and a 50 percent increase from 2015. HJF supports the University with over 1,000 employees across all schools and campuses. They also provided nearly \$300K in support of University events and programs in 2018.

Dr. Blanck noted the value in having Dr. Hal Kushner speak during the last President's Leadership Series event and commented on the importance of having those types of events archived, so future students, faculty and staff have an opportunity to watch or listen, as well as current students, faculty and staff that are not able to attend or watch in real time. Dr. Thomas and Dr. Kellermann noted that the intent is to archive all recorded audio and video in the Defense Medical Ethics Center, specifically under the Leadership pillar.

A short student-produced video was shown by Dr. Kellermann showing the experiences of USU medical students on board the *USNS Mercy*, as it conducted humanitarian and medical operations throughout the Pacific Region. Efforts between the University and the Navy to create this opportunity were facilitated by Dr. Roberts of the Western Region.

Dr. Blanck recessed the meeting for a short break.

**Break from 9:16 a.m. – 9:37 a.m.**

Dr. Blanck reconvened the meeting. Before proceeding into the School reports, Dr. Blanck asked Dr. Seal to introduce two of his associate deans that traveled with him from the CAHS, Mr. Dennis Kilian and Dr. Lula Pelayo.

## **USU SCHOOL OF MEDICINE REPORT**

The following points were presented during Dr. Kellermann's report to the Board:

- Notable Achievements. USU medical students (Class of 2019) boarded the *USNS Mercy*, as it conducted humanitarian and medical operations throughout the Pacific Region. The School supported the DoD by providing four recent examples of faculty deploying for global health engagement missions. Second Lt Sidney Peters, Class of 2022, was named as one of nine finalists for the 2018 NCAA "Woman of the Year."

- State of the School. Over the next 6-12 months, the Graduate Education Office will undergo transformation, as several leaders step back from program management roles to refocus on research and teaching. The School is fully accredited through 2024 pass rates over the last 5 years averaging 99% to 100%; USMLE Step 2 CK/CS scores continue to exceed the Nation's average over the last 5 years, with recent CK pass rates at 100%. A recent AAMC medical student graduate questionnaire showed that 95% of USU graduates either agree (31%) or strongly agree (64%) that they were overall satisfied with their medical education experience, compared to the national average of 89% (51% agree, 38% strongly agree). The School of Medicine has a disproportionately high number of graduates in military medical leadership roles (30-40% of those roles despite only 12% accession to the medical corps).
- Strategic Context. Medical education is a critical component of the MHS, for both recruitment and retention. USU provides more doctors to the medical corps than the next nine feeder schools combined. The School is working with HPSP recruiters to develop a joint recruiting strategy. The School continues to support GME through the National Capital Consortium. Support for and feedback from the University's national faculty continues to be strong, as is evidenced in promotions, outreach, development, and retention of all faculty, regardless of location in the MHS.
- Key Issues. Building F construction is vital to the growth and sustainability of the School and the University. With it, the University will continue to attract top-tier students, staff and faculty, and have the modern facilities it needs to meet the DoD's military health needs. There is growing concern that some of the smaller Military Treatment Facilities (MTF) are no longer accepting University students for clinical rotations or they have asked to reduce the number of students. Reasons for this include a growing focus on productivity, deployments, and reductions in MTF staffing due to retirements and separations. Dr. Blanck noted that as the oversight of the MTF transfers from the Services to the DHA, the metrics for success are shifting. There needs to be continued focus on shaping and building GME.

Dr. Woodson noted: 1) medical school applications have increased across the country, which is good, but may not be sustainable, 2) civilian medical schools, such as NYU, are looking at ways to reduce the financial obligations for students, creating additional competition at the University and HPSP in terms of cost and debt to the student. A key concept to be disseminated is the University is the force-generating platform for the MHS. Regarding the MTF's not accepting students, ways need to be explored where the student can be seen as value added and not just an observer, which may require an adjustment in both the curriculum and the messaging.

Dr. Thomas noted it might be worth having the services explore implementing a skill identifier for teachers, as a way to incentivize service and retention and provide a career track for teaching. RDML Via commented that the Navy's force generating model is changing and is concerned that the University may not be able to fill some of the specialty positions that were previously not an issue. Dr. Thomas does not see an issue, noting that the Services provide the requirements to the University and students inevitably fill those requirements.

## **USU GRADUATE SCHOOL OF NURSING REPORT**

The following points were presented during Dr. Romano's report to the Board:

- The Graduate School of Nursing is celebrating its 25<sup>th</sup> anniversary.
- Dr. Romano echoed Dr. Kellermann's comment that the Services dictate what programs USU has, based off what requirements they have.
- Board certification pass rates 100%. Almost 20% of faculty are Fellows in the American Academy of Nursing, compared to 0.1% nationally.
- The GSN is finding similarly that MTFs are decreasing support to students because of insufficient staffing.
- Education and Training.
  - The Commission on Collegiate Education in Nursing reviewed two programs within the School. The verbal report is that the School is in full compliance with all accreditation standards and the final report will be made available in early 2019. There is some concern because the Master's program may be at risk due to low student census, due to the changes in the Services force management structure, but Dr. Romano will be seeking a military waiver.
  - The PhD program was externally reviewed. The review noted the GSN is in compliance with the AACN criteria and outcomes defined in the Pathway to Excellence in Research Doctoral Programs. This puts the School in a good position for the next accreditation by the Middle States Commission on Higher Education.
  - The GSN provided trauma management expertise to Ugandan military nurses as part of the African Peacekeeping Rapid Response Partnership. Similar efforts are ongoing with Rwanda. Representatives from Taiwan and South Korea participated in 2018 Operation Bushmaster, which yielded positive results in building relationships.
  - The GSN is working with OGC to determine what legislative authorities are needed to allow international military students to earn a degree. This applies to the PhD program only.
  - The GSN hosted a five-day workshop with 34 MTFs and 78 total participants for the 4<sup>th</sup> annual High Level Disinfection / Sterilization Quality Assurance Meeting.
  - Two-week operational medicine courses are offered as electives to nursing students through the School of Medicine. Although a School of Medicine program, it is managed by Dr. Matt Welder, a nurse by trade. Courses include mountain medicine, wilderness medicine, avalanche cold weather medicine, and dive medicine. To date, 83 students and 27 faculty from the University have completed these courses.
- Challenges. The GSN is also affected by MTFs and the decision to either cancel or reduce the number of nursing students reporting for clinical rotations. The primary reason for this change is a reduction in staffing. The GSN recently lost eight military faculty and had to orient eight new faculty. Also, four of the eight civilian staff positions are currently vacant, as well as seven civilian faculty positions. Permanent hires are coming, as well as supplemental support from contractors and internal staff and faculty.

Dr. Rauch commented that NDAA 17 created an opportunity for the DoD to build civilian partnerships with the VA to provide clinical experience for the student. Dr. Romano and Dr. Kellermann noted that, while there are partnerships nationally, sometimes the opportunities are low due to demand. Some of the local partnerships are anticipated to improve with recent changes

in leadership. Competition remains high with civilian medical schools for clinical sites and opportunities, specifically in the National Capital Region. Dr. Kellermann noted that the Services are continuing to explore opportunities to make the clinical experience more efficient through the MTFs for the military student.

## **USU POSTGRADUATE DENTAL COLLEGE REPORT**

The following points were presented during Dr. Schneid's report to the Board:

- Education and Training.
  - The Commission on Dental Accreditation reviewed eight total programs during FY18, with all eight receiving the highest rating and the full seven year accreditation. The College's remaining 22 programs hold the same status.
  - The University continues to support the Faculty Development Program within and for the College. The program covers 18 different dental sites and leverages both School of Medicine and Postgraduate Dental College assets.
  - The creation of a new academic course, Dental Faculty Development – Introduction to Graduate Teaching, was launched over the University's distance learning platform, making it available to all dental students across all locations.
  - The Air Force representative for the Tri-Service Center for Oral Health Studies recently piloted the Air Force Medical Service's Tobacco Cessation Training initiative. Twenty-five dental professionals received this training, which was a direct result of the collaboration with the West Virginia University Certified Tobacco Treatment Training Program.
- Research and Scholarship.
  - The Associate Dean for Dental Research completed the first draft of the College's Research Gap Analysis, which is designed to identify gaps in knowledge and to link the College's research to issues of importance to the MHS.
  - Several College locations, in collaboration with West Virginia University and the Defense and Veterans Center for Integrative Pain Management, are planning a coordinated study that involves the use of battlefield acupuncture and its effects on patients.
  - During FY18, dental professionals throughout the College published 50 manuscripts and 27 abstracts, with another 20 manuscripts submitted or accepted for publication. Additionally, they gave 163 presentations and received 23 awards, including Dr. Rodney Phoenix, Associate Dean for Dental Research, who received the 2018 MG Bill Lefler Federal Services Award for the Federal Services Prosthodontist.
- Leadership and Service.
  - For the first time, Navy and Air Force faculty (3) and residents (11) participated in Military Field Practicum (MFP) 101, rather than MFP 202 (Operation Bushmaster). In addition to the primary training offered in MFP 101, the residents also performed dental-specific field operations.
  - Faculty and residents recently supported nine humanitarian deployments, readiness events and inter-professional activities during FY 2018.
  - Faculty participated in numerous leadership roles within the University, their respective service and their respective civilian dental specialty organization.

## USU COLLEGE OF ALLIED HEALTH SCIENCES REPORT

The following points were presented during Dr. Seal's report to the Board:

- Education and Training.
  - The College developed and implemented four programs of study (Preventive Medicine Technician (PMT), Nuclear Medicine Technician (NMT), Medical Laboratory Technician (MLT), and Education and Training Administration and Leadership (ETL)) after receiving 49 formal requests for program support. To date, there have been 24 verified degree completers at the associate's level, with one additional degree completer at the bachelor's level anticipated by the end of 2018.
  - For MLT, the College 1) maintained programmatic accreditation and credentialing eligibility; 2) identified 25% more college credit (through both the METC curriculum and the Joint Service Transcript) and reduced time to degree completion by 50%; and 3) added \$12 million in voluntary education dollars.
  - For PMT, the College 1) provided conditions for credentialing eligibility for the Navy (due to its increased program length) and 2) added \$1.8 million in voluntary education dollars.
  - For NMT, the College 1) restored conditions for programmatic accreditation for all of the services and 2) added about \$300k in voluntary education dollars.
  - For ETL, the College 1) reduced the instructor qualification time between 50% and 75% for the Army and Navy and 2) added about \$2.5 million in voluntary education dollars.
- Research and Scholarship.
  - The College's focus for research is on educational administration in terms of student achievement and return on investment. Within that framework, three main interests were developed.
    - The study of outcomes of the College as the basis for its administrative model.
    - The continued pursuit to collaborate with Carnegie Mellon University's Simon Initiative, as their method of administration and instruction shows similar outcomes. Dr. Maddox and her research team have assisted in the College in developing a Statement of Work in pursuit of this opportunity.
    - The continued joint collaboration with the Task Force for Military Veteran Credentialing and Licensing and the DASD for Readiness, Education and Training in the development of the Credential Transparency Description Language.
- Leadership and Service.
  - The College's focus on leadership training remains strong. Much of a student's military leadership training is underreported or misinterpreted on their military training records, so the College continues to work with numerous leadership training entities in reviewing their programs to allow the student to receive academic credit.
  - Within the training leadership focus, the College is working with the American Council on Education to better understand what their credit recommendations mean and to ensure it is recent within student records. In two specific cases, this discrepancy was impacting credit for one of the Service's basic training, as well as

a training program deconsolidation in the Air Force that affected non-Air Force students. Both cases have been rectified to the student's benefit.

- Due Outs.
  - Per the Board's request, the College provided its Strategic Framework and Plan and touched on the following key points. First, the College implemented four academic programs serving about 400 students. Second, the College is working to identify the direct cost savings its model is achieving, in hopes of developing a model for further expansion. Third, the focus of the expansion is prioritized on 1) required contract programs of instruction at METC and 2) Service-identified home for readiness programs that require accreditation for sustainment.
  - Program Expansion. Discussed the academic requirements and the implementation timelines for three prospective programs: 1) the Neurodiagnostic Technician Program (Navy and Air Force); 2) the Histology Technician Program (Navy and Air Force); and 3) the Urology Technician Program (Navy and Air Force). These are not ready yet but expected to be so at the subsequent Board meeting.
  - Regarding frequency of diploma requests, the College is working with the University Registrar 1) in developing a predictable academic calendar and 2) to become more efficient in delivering the official transcripts to the student in a timely manner, with a letter attached stating the diploma is forthcoming. This new process will benefit the student, reduce the number of diploma requests, and establish a system for a formal degree audit process, which is important for undergraduate accreditation.

### **CLOSING REMARKS**

Dr. Blanck asked if there were any final questions or concerns of which there were none.

### **ADJOURNMENT**

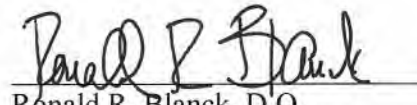
There being no further business on the agenda, Dr. Blanck asked if there was any further information to be brought forward, of which there was none. He then adjourned the open portion of the meeting at 11:00 a.m.

SUBMITTED:



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

APPROVED:



Ronald R. Blanck, D.O.  
Chair, Board of Regents

Prepared by: Joshua Barricklow, DFO, USU

## **TAB 10**

### *Declaration of Board Actions*





BOARD OF REGENTS

# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712



April 25, 2019

## MEMORANDUM FOR PRESIDENT, UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

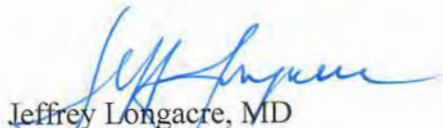
SUBJECT: Board of Regents Majority Vote (Electronic) for Distinguished Service Award

1. On April 23, 2019, an electronic vote was requested of the University's Board of Regents on the following actions:

- Endorsement of the Distinguished Service Award for VADM Forrest Faison III, USN, Surgeon General of the United States Navy
- Endorsement of the Distinguished Service Award for Dr. Joseph Matarazzo, former president of the American Psychological Association

2. A majority vote for endorsement on both actions was reached on April 24, 2019.

3. The point of contact for this action is MAJ Josh Barricklow, Designated Federal Officer, at (301) 295-9805 or [joshua.barricklow@usuhs.edu](mailto:joshua.barricklow@usuhs.edu).

  
Jeffrey Longacre, MD  
Executive Secretary  
Board of Regents





BOARD OF REGENTS

# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712



April 8, 2019

*rwT  
4-29-19*

## MEMORANDUM FOR PRESIDENT, UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES


SUBJECT: Board of Regents Majority Vote (Electronic) for Faculty Appointments, Hébert School of Medicine

1. On April 8, 2019, an electronic vote was requested of the University's Board of Regents on the following actions:

- Endorsement of Faculty Appointment for Dr. David Horowitz, Emeritus Associate Professor (non-tenured), Department of Biochemistry & Molecular Biology
- Endorsement of Faculty Appointment for Dr. David Gallus, Clinical Associate Professor (non-tenured), Department of Surgery

2. A majority vote for endorsement on both actions was reached on April 8, 2019.

3. The point of contact for this action is MAJ Josh Barricklow, Designated Federal Officer, at (301) 295-9805 or [joshua.barricklow@usuhs.edu](mailto:joshua.barricklow@usuhs.edu).

  
Jeffrey Longacre, MD  
Executive Secretary  
Board of Regents



BOARD OF REGENTS

## UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712



March 29, 2019

### MEMORANDUM FOR PRESIDENT, UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES


SUBJECT: Board of Regents Salary Endorsement for Hébert School of Medicine Faculty Member

1. On March 29, 2019, a salary endorsement recommendation was submitted to the Chair, Board of Regents (Board) for review and endorsement:

- Dr. David Gallus, Department of Surgery, Hébert School of Medicine

2. The recommendation for salary endorsement was endorsed by the Board Chair on March 29, 2019.

3. The point of contact for this action is MAJ Josh Barricklow, Designated Federal Officer, at (301) 295-9805 or [joshua.barricklow@usuhs.edu](mailto:joshua.barricklow@usuhs.edu).

  
Jeffrey Longacre, MD  
Executive Secretary  
Board of Regents



BOARD OF REGENTS

## UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712



March 13, 2019

### MEMORANDUM FOR PRESIDENT, UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

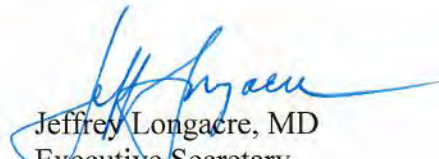
SUBJECT: Board of Regents Majority Vote (Electronic) for Honorary Degree

1. On March 13, 2019, an electronic vote was requested of the University's Board of Regents on the following action:

- Endorsement of Honorary Degree for Mr. Arnold Fisher, Senior Partner at Fisher Brothers and Honorary Chairman, Intrepid Fallen Heroes Fund

2. A majority vote for endorsement was reached on March 13, 2019.

3. The point of contact for this action is MAJ Josh Barricklow, Designated Federal Officer, at (301) 295-9805 or [joshua.barricklow@usuhs.edu](mailto:joshua.barricklow@usuhs.edu).

  
Jeffrey Longacre, MD  
Executive Secretary  
Board of Regents





BOARD OF REGENTS

# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712



January 31, 2019

## MEMORANDUM FOR PRESIDENT, UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES


SUBJECT: Board of Regents Majority Vote (Electronic) for Academic Actions

1. Due to the partial Government shutdown, the February 2019 Board of Regents (Board) meeting was canceled. An electronic vote was requested of the Board on January 25, 2019 on the following actions:

- Endorsement of Degree Conferrals, Hébert School of Medicine
- Endorsement of Degree Conferrals, Inouye Graduate School of Nursing
- Endorsement of Degree Conferrals, College of Allied Health Sciences
- Endorsement of Faculty Appointments and Promotions, Hébert School of Medicine
- Endorsement of Faculty Appointments and Promotions, Postgraduate Dental College
- Endorsement of Faculty Appointments and Promotions, College of Allied Health Sciences
- Endorsement of Faculty Award, Faculty Senate
- Endorsement of Student Award, Hébert School of Medicine
- Endorsement of Student Award, Graduate Education Office
- Endorsement of Student Award, Inouye Graduate School of Nursing
- Endorsement of Student Award, Postgraduate Dental College
- Endorsement of Open Session Meeting Minutes, November 2018 Board Meeting
- Endorsement of New Programs and Instructional Sites, College of Allied Health Sciences

2. A majority vote for endorsement on all actions was reached on January 31, 2019.

3. The point of contact for this action is MAJ Josh Barricklow, Designated Federal Officer, at (301) 295-9805 or [joshua.barricklow@usuhs.edu](mailto:joshua.barricklow@usuhs.edu).

  
Jeffrey Longacre, MD  
Executive Secretary  
Board of Regents

# **TAB 11**

*Degree Granting  
Hébert School of Medicine  
and  
Graduate Education Office*



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

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



April 17, 2019

MEMORANDUM FOR THE CHAIR, BOARD OF REGENTS, USUHS  
THROUGH: Dean, School of Medicine

SUBJECT: Recommendation of Fourth-Year Students, Class of 2019

In accordance with SOM-DPM-006-2015 subject: USUHS School of Medicine (SOM) Medical Student Promotions Committee, dated 21 August 2015, the Student Promotions Committee met on 17 April 2019 to review each fourth-year student's performance following completion of his/her fourth year. The Committee unanimously recommends that those students whose names appear on the Certification List be awarded the degree of Doctor of Medicine and enter graduate medical education, provided that all remaining academic requirements are met.

This letter of recommendation does not preclude the Dean, School of Medicine, from removing any student listed herein for cause.

JEFFREY D. QUINLAN, M.D.  
Captain, Medical Corps, U.S. Navy  
Chair, Student Promotions Committee

Attachment

CLASS OF 2019  
RECOMMENDED FOR GRADUATION

Able, Michael Laurence  
Andrews, James Everett  
Aubuchon, Thomas Vincent  
Austin, Amy Louise  
Azir, Michael Ramzy  
Barbera, Robert Daniel  
Barta, Kristen Anne  
Bartikoski, Stephanie Rae  
Basaran, Emma Fikret  
Bell, Geovonni  
Bishop, Bradley Allen  
Bloomer, Curtis Howard  
Bondaryk, Matthew  
Boyd, Chanell Elise  
Brown, Samuel Paul  
Brunner, Ryan Douglas  
Brusher, Kara Elizabeth  
Buck, Emily Christine  
Campbell, Donald Alexander  
Campbell, Jonathan Michael  
Campbell, Patrick Hadfield  
Carter, Nicholas John  
Ceen, Hannah  
Cheatham, Callie  
Chen, John  
Chisam, Michael  
Christen, Kurt Russell  
Cofield, Zari Nicole Williams-Yee  
Colesar, Michael Tyler  
Crane, Jeremy  
Denkensohn, Cole Phillips  
Dillon, Carrie Marie  
Driggers, Kathryn Elizabeth Boddy  
Dulin, Nicholas Shane  
Elward, Cameron John  
Everson, Kyle Allan  
Fahy, John Fee  
Ficke, Benjamin  
Fleit, Madeline Renee  
Flood, Danielle  
Florendo, Edmund Reyes  
Foley, Kevin Anthony  
Gall, Ryan Andrew  
Gerstenslager, Brian  
Godar, Cassandra Maria Chiras  
Golden, Krystyna Guinevere

Gopalasubramanian, Sapna  
Gower, Casey Christopher  
Green, Samantha R  
Gregg, Evan Marshall  
Gunaji, Rajesh Mohan  
Hall, Victoria Rose  
Hamilton, Joshua Morgan  
Harrington, Colin James  
Hatesohl, Michael Stanley  
Hayes, Horace Allen  
Healy, Jennifer  
Henriques, Matthew Edwin  
Higgins, Sophie Suzanne  
Hitt, Joseph Ryan  
Hughes, Kathryn Grace  
Hur, Andy Chung  
Hussain, Ali  
Hutto, Wesley Mcleod  
Irelan, Micheal Cannon  
Jacobs, Benjamin Johnson  
Jacobs, Jacqueline Marie  
Jo, Noah Yunjae  
Kecskes, Lauren Pham  
Khan, Kiel Von  
Khan, Rafae  
Khare, Vikrant  
Kim, Sunyoung Oh  
Knight, Carol Ann  
Lam, Alison Cristina  
Lamorte, Daniel Anthony  
Lannan, Ford Michael  
Larcom, Charles Bayard  
Leeds, Alexander Jacob  
Leshen, Glennie Carol Ebuena  
Lindeire, Sayi  
Liu, Bohan  
Lyons, Cassandra  
Ma, Lucy  
Mackinnon, Rene  
Madha, Emad  
Maniwang, Emerson Duyugan  
Mcclure, Willie Gene  
Mcgee, Matthew Ryan  
McMurray, Jeremy Clay  
McNally, Lauren Elizabeth  
Michael, Nicholas



Millen, Spencer Monroe  
 Miller, Lucas Anthony  
 Molloy, Danielle Marie  
 Monahan, Zachary Thomas  
 Monroe, Mischa Lev  
 Moon, Andrea You-Jeong  
 Moore, Marlyn Joanna  
 Mueller, Casey Scott  
 Mukherjee, Vikram Kane  
 Nakamura, Tawney  
 Neelon, Daniel  
 Ng, Peter  
 Orrick, Michael Joseph  
 Peek, James Nolan  
 Polston, Elizabeth Kristine  
 Pomfret, Roland William  
 Powell, Thomas Lee  
 Price, Tyler John  
 Rhie, Ryan Young  
 Rine, Jacqueline Marie  
 Rizzuto, William Thomas  
 Rupp, Scott L  
 Ryan, Matthew Taylor  
 Sabath, Zena Rei  
 Samardzic, Kristen Blair  
 Sanchez, Vanessa Lynn  
 Sanderson, Galen Walter  
 Scheidt, Justin Christopher  
 Schermerhorn, Sophia Maria Vaporis  
 Schifferle, Chelsea Marie  
 Schroeder, Koren Marie  
 Schroeder, Paul  
 Schulte, Alexandra Jordan  
 Segre, Elena Marianna  
 Shemery, Norah R  
 Shields, Elizabeth Helen  
 Snyder, Alison Natalie  
 Spanier, Adam

St Claire, Alexis Julianna  
 Stevens, Bryan Jeffrey  
 Stierwalt, Joshua Bert  
 Sun, Kelly Jongwon  
 Super, Eric J  
 Sznol, Joshua Ariel  
 Szymanski, Scott Anthony  
 Taneff, Blake  
 Tardif, Robert Allen  
 Thomas, Brett T  
 Tobin, Michael  
 Tong, Eric K  
 Torrez Chang, Kayla Leigh-Ann  
 Towers, Michelle  
 Trask, Douglas Connor  
 Trexler, Connor Alan  
 Trisko, Breanna Marie  
 Ulmer, Clinton Joe  
 Underwood, James Aubrey  
 Venrick, Connor Blaine  
 Vuoncino, Matthew Richard  
 Warren, Bryce  
 Warren, Kyle Christopher  
 Weiss, Aeja Nicole  
 Whitaker, Daniel Jordan  
 Whitecar, Scott Brinton  
 Wilder, Jessica  
 Winn, Coty Richard  
 Wischhusen, Jeffrey  
 Woodle, Samuel Andre  
 Woodle, Tarah Ruth Mayer  
 Yallowitz, Aaron William  
 Yano, Ashley Summer  
 Yiu, Alvin Chun-Yeung  
 Yong, James Amos  
 Yoo, Yejin  
 Zamora, Adriana





**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**  
4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712  
usuhs.edu



April 12, 2019

MEMORANDUM FOR: PRESIDENT, USUHS

THROUGH: CHAIR, BOARD OF REGENTS

THROUGH: DEAN, SCHOOL OF MEDICINE

SUBJECT: List of Graduate Students in the Department of Preventive Medicine and Biostatistics (PMB) who are Expected to Graduate on June 20, 2019

The following Graduate Education students are expected to complete the necessary requirements for the following Master Degree Programs in the Department of Preventive Medicine and Biostatistics: Master of Health Administration and Policy (MHAP), Master of Public Health (MPH), and Master of Tropical Medicine and Hygiene (MTM&H).

**Master of Health Administration & Policy (MHAP) candidates:**

CPT Amber L. Chilson (USA)  
LTJG Nicole M. Johnson (USN)  
CPT Clint Mitchell (USA)  
LT Erika T. Nance (USN)

LTJG John M. Price Jr. (USN)  
LTJG Stencil D. Quarles (USN)  
LTJG Jesse J. Thomas (USN)  
LTJG Michael E. Weaver (USN)

**Master of Public Health (MPH) candidates:**

LTC Michael V. Arnett (USA)  
CPT Dimas C. Espinola (USA)  
MAJ Evan C. Ewers (USA)  
Maj Cherielynn A. Gabriel (USAF)  
MAJ Tranessia M. Hanson (USA)  
Maj Adam D. Hebdon (USAF)  
MAJ Milissa U. Jones (USA)  
CPT Alyson M. Kil (USA)  
Col Tony S. Kim (USAF)  
LCDR Eric C. Larsen (USN)  
CPT Jennifer E. LeFors (USA)

CPT Nicholas A. Magno (USA)  
MAJ R. Allen Messenger (USA)  
LCDR Ross A. Mullinax (USN)  
Lt Col Khayanga S. Namasaka (USAF)  
Maj James A. O'Halloran (USAF)  
MAJ Jessica L. Reeves (USA)  
MAJ Brian J. Shiozawa (USA)  
Lt Col Kristen A. Soltis-Tyler (USAF)  
LCDR Teshome M. Tafes (USN)  
LCDR Rebecca R. Welch (USN)  
LCDR Kenneth R. Willaert (USN)

**Master of Tropical Medicine and Hygiene (MTM&H) candidate:**

Maj Dianne N. Frankel (USAF)

Gregory P. Mueller, PhD  
Associate Dean for Graduate Education

Approved / Not Approved

Richard W. Thomas, MD, DDS, FACS  
President



**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**  
4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712  
usuhs.edu



April 16, 2019

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 May 17, 2019 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, Master of Science in Public Health and Doctor of Philosophy degrees.

***Master of Health Professions Education*** candidates:

Matthew R. D'Angelo  
Ryan Richard Landoll  
Brian Edward Neubauer  
Jason E. Sapp

***Master of Science in Public Health*** candidate:

Dustin B. Joplin, Department of Preventive Medicine and Biostatistics

***Doctor of Philosophy*** candidates:

Jared W. Bollinger, Department of Medical and Clinical Psychology  
Andrew James Dimond, Department of Medical and Clinical Psychology  
Zachary C. Janatpour, Molecular and Cell Biology Graduate Program  
Dawn N. Johnson, Department of Medical and Clinical Psychology  
Viktor Edward Koltko, Department of Medical and Clinical Psychology  
Christina M. Marion, Neuroscience Graduate Program  
Lisa Marie Shank, Department of Medical and Clinical Psychology  
Ryan David Shepard, Neuroscience Graduate Program  
Kelsey L. Voss, Emerging Infectious Diseases Graduate Program

Gregory P. Mueller, PhD  
Associate Dean for Graduate Education

Approved / Not Approved

Richard W. Thomas, MD, DDS, FACS  
President

*Learning to Care for Those in Harm's Way*



**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**  
4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712  
usuhs.edu



April 12, 2019

**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 Doctor of Philosophy degree effective upon your approval:

**Jared W. Bollinger**

DOCTOR OF PHILOSOPHY

Department of Medical and Clinical Psychology

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 Title Page, Dissertation Abstract, and Curriculum Vitae.

Arthur L. Kellermann, MD, MPH  
Dean, USUHS, School of Medicine

Attachments:  
As stated



**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**

SCHOOL OF MEDICINE GRADUATE PROGRAMS

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



**FINAL EXAMINATION/PRIVATE DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY  
IN THE DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY**




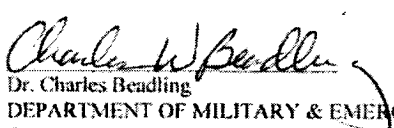
Name of Student: Jared Bollinger

Date of Examination: December 10, 2018

Time: 1:30 PM

Place: Room B4004

**DECISION OF EXAMINATION COMMITTEE MEMBERS:**

	PASS	FAIL
 Dr. Jeffrey Goodie DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY Committee Chairperson	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 Dr. Andrew J. Waters DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY Dissertation Advisor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 Dr. Layne Bennion DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY Committee Member	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 Dr. Charles Beadling DEPARTMENT OF MILITARY & EMERGENCY MEDICINE Committee Member	<input checked="" type="checkbox"/>	<input type="checkbox"/>



**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**

SCHOOL OF MEDICINE GRADUATE PROGRAMS

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



APPROVAL OF THE DOCTORAL DISSERTATION IN THE DEPARTMENT OF  
MEDICAL AND CLINICAL PSYCHOLOGY

Title of Dissertation: "The Effect of Suggestion on Cognition in Smokers"

Name of Candidate: Jared Bollinger  
Doctor of Philosophy Degree  
December 10, 2018


DISSERTATION AND ABSTRACT APPROVED:

  
Dr. Jeffrey Goodie

DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Chairperson

DATE:


12/21/18

  
Dr. Andrew J. Waters  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Dissertation Advisor

12/21/18

  
Dr. Layne Bennion  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Member

12.21.18

  
Dr. Charles Beadling  
DEPARTMENT OF MILITARY & EMERGENCY MEDICINE  
Committee Member

12/21/18

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

“THE EFFECT OF SUGGESTION ON COGNITION IN SMOKERS”

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

A handwritten signature in black ink, appearing to read "Jared Bollinger".

LT Jared W. Bollinger  
Ph.D. program in Clinical Psychology-Military  
Track, Department Medical and Clinical Psychology  
Uniformed Services University of the Health Sciences  
April 5<sup>th</sup>, 2019

# THE EFFECT OF SUGGESTION ON COGNITION IN SMOKERS

by

Jared W. Bollinger

## **ABSTRACT**

Title of Thesis: The Effect of Suggestion on Cognition in Smokers

Jared Bollinger, M.S., 2019

Dissertation directed by: Andrew J. Waters, Professor, Department of Medical and Clinical Psychology

Cigarette smoking remains an extremely important public health concern. Despite decreasing prevalence rates, smoking is still the leading cause of preventable death in United States. Even when smokers use available efficacious treatments, most quit attempts end in failure (relapse). Therefore, novel smoking cessation interventions are required.

Recent research has identified cognitive processes associated with quit attempts as important targets for intervention. One intervention found to be effective in targeting cognitive processes is hypnotic suggestion. Several studies have demonstrated that hypnotic suggestion can reduce or eliminate the Stroop effect assessed using the classic Stroop task. Treatments that utilize hypnotic suggestion (e.g., clinical hypnosis) are popular, sought-after, brief, and tolerable interventions for smoking cessation. However, these treatments have yet to incorporate suggestions which directly target cognitive processes.

Using a counterbalanced within-subjects, this laboratory study examined if cognitive processes can be modified in smokers (N=33) using hypnotic suggestion. Specific Aim 1 sought to replicate previous findings that hypnotic suggestion reduces the classic Stroop effect using a sample of smokers with high hypnotic susceptibility. Specific Aim 2 investigated if hypnotic



suggestion reduces attention to smoking cues on the smoking Stroop task (a modification of the emotional Stroop task). Exploratory analyses examined if hypnotic suggestion reduces craving. Descriptive statistics of hypnotic susceptibility and attitudes towards using hypnosis during a subsequent quit attempt in smokers were also presented.

The results demonstrated no evidence that hypnotic susceptibility moderated the effect of hypnotic suggestion on the classic Stroop effect or that hypnotic suggestion reduced the classic Stroop effect in individuals with high levels of susceptibility (Specific Aim 1). There was also no evidence that hypnotic susceptibility moderated the effect of hypnotic suggestion on the smoking Stroop effect or that hypnotic suggestion reduced the smoking Stroop effect in individuals with high levels of susceptibility (Specific Aim 2). An exploratory analysis demonstrated that hypnotic susceptibility did moderate the effect of hypnotic suggestion on craving, and hypnotic suggestion did reduce craving in individuals with high levels of susceptibility. Side effects of hypnotic suggestion were common but mild in intensity. The average hypnotic susceptibility was slightly above average, and perceptions of hypnosis were positive.

Overall, this study found that hypnotic suggestion did not have an effect on cognition but did decrease cigarette craving in high susceptible smokers. To the best of the author's knowledge, this is the first study using a counterbalanced design to report that hypnotic suggestion reduces craving for cigarettes. Further research into the mechanisms by which hypnotic suggestion reduces craving is warranted.

## Curriculum Vitae Jared W. Bollinger, M.S.

---

**Work Address:**

Uniformed Services University of the Health Sciences  
4301 Jones Bridge Road  
Bethesda, MD 20814

**Contact:**

Mobile: 440-417-5043  
E-mail: jared.bollinger@usuhs.edu

---

**EDUCATION**

---

**Uniformed Services University of the Health Science (USUHS), Doctor of Philosophy** *August 2014-present*

Major: Clinical Psychology- Military Track (APA Accredited)  
Internship: Naval Medical Center Portsmouth (APA Accredited)  
Dissertation: *The Effect of Suggestion on Cognition in Smokers*

**Uniformed Services University of the Health Science (USUHS), Master of Science**

Thesis: *The Association between Alcohol Dependence, Post-traumatic Stress Disorder, and Aggression*

**National Institute on Alcohol Abuse and Alcoholism, Post-baccalaureate fellow**

*June 2012-June 2014*

Research area: Addiction Studies

**University of Georgia, Bachelor of Science**

*August 2008- May 2012*

Major: Psychology; Minor: Sociology  
*Cum Laude*

---

**OTHER COURSEWORK**

---

**Foundation for the Advanced Education in the Sciences (NIH Graduate School)**

*January 2013-December 2013*

Classes in *Current Trends in the Neurobiology of Mental Illness* and *Endocrinology and Metabolism*

**NIH Academy Certificate Program**

*September 2013-April 2014*

Ten-month-long curriculum for post-baccalaureate fellows of NIH to learn health disparities through discussion-based seminars, workshops, community outreach projects, and lectures

**Coursera (massive online open courses)**

*December 2012- May 2015*

Completed courses: *Psychological First Aid* (Johns Hopkins University), *Physiology* (Duke University), *Introduction to Clinical Decision Making* (University of California, San Francisco), *Drugs and the Brain* (California Institute of Technology)

---

**CLINICAL EXPERIENCE**

---

**Naval Medical Center Portsmouth/Outpatient Rotation**

*March 2019-present*

Position: Clinical Intern

- Intakes and outpatient therapy for adult active duty military members

- Fitness for duty evaluations
- Post-emergency room follow-up evaluations

Supervisor: Mary Brinkmeyer, Ph.D.

**Naval Medical Center Portsmouth/Child and Family Rotation**

*December 2018-present*

Position: Clinical Intern

- Intakes for children
- Individual and family therapy for children and adolescents
- PCIT observation of certified clinicians
- Assessments administered: SCARED, Vanderbilt, Moods and Feelings, ASD screening

Supervisors: Lisa Roberts, Ph.D., Mary Brinkmeyer, Ph.D.

**Naval Medical Center Portsmouth/Inpatient Mental Health Unit**

*August 2018-present*

Position: Clinical Intern

- Interactional group psychotherapy for inpatients with depression, anxiety, suicidality, and co-occurring substance use disorders
- Personality assessments for inpatient mental health patients. Assessments used: MMPI-II-RF, MCMI-III
- Interdisciplinary treatment planning with psychiatry, social work, nursing, and other staff
- Mental health assessment and crisis intervention in medical center's emergency department, evening and overnight call

Supervisors: CAPT Danisha Robbins, Ph.D.

**Naval Medical Center Portsmouth/Transrotational Outpatient**

*August 2018-present*

Position: Clinical Intern

- Long term psychotherapy with treatment resistant cases

Supervisors: Catherine Greene, Ph.D.

**National Institute of Alcohol Abuse and Alcoholism/Inpatient Unit**

*July 2017-July 2018*

Position: Clinical Extern

- Interactional group psychotherapy for alcohol and substance use disorders
- Participation in weekly rounds for case evaluation, treatment planning, and milieu group therapy groups

Supervisors: Laura Kwako, Ph.D.

**National Institute of Mental Health/Neuropsychology Consultation Service**

*July 2017-May 2018*

Position: Clinical Neuropsychology Extern

- Neuropsychology testing, scoring, and interpretation for infectious diseases, cancer, rare or unclassified diseases, neurological, and psychiatric conditions
- Assessments administered: WAIS-III, WAIS-IV, WASI-II, WMS-III, WTAR, HVLT-R, BMVT-R, Trails A & B, Grooved Pegboard Test, BNT, MSVT, BDI-II, BAI, FrSBe, COWA (FAS, Animals), TFLS, PASAT, DRS, NAB, CVLT-II, WCST, BRIEF-A

Supervisors: Joseph Snow, Ph.D., ABPP-CN & Laura Segala, Psy.D.

**USUHS/Laboratory of Cognitive Interventions**

*August 2017-July 2018*

Position: Hypnosis technician/Research Assistant

- Hypnosis administered to enhance performance on the classic and smoking Stroop tasks
- Administration of the SHSS:C to assess hypnotic susceptibility
- Hypnosis conducted as a part of dissertation research project

Supervisor: Charles Beadling, M.D., FAAFP

**USUHS/Val G. Hemming Simulation Center**

*September 2014-May 2018*

Position: Graduate Student/Graduate Teaching Assistant

- Accrued clinical hours through interactions with simulated patient during: Assessment I, II, III, Psychodynamic, and Couples and Marital Therapy courses
- Assessments administered and supervised during assessment course: WAIS-IV, WMS-IV, WRAT, Rorschach (Exner System), & TAT
- Live supervision of first-year assessment students as role as teaching assistant of assessment course

Supervisor: Layne Bennion, Ph.D. & April Thompson, L.C.S.W.

**Naval Health Clinic Annapolis/Mental Health Department**

*August 2016-July 2017*

Position: Clinical Extern

- Outpatient psychotherapy and assessment for active duty, dependents, and midshipmen
- Observation of psychopharmacology management for mental disorders

Supervisors: CDR Samuel Dutton, Ph.D., M.S.C.P. & LCDR Steven Porter, Psy.D.

**Naval Special Warfare School/BUDS Medical**

*June 2016-August 2016*

Position: Operational Psychology Student

- Assessments administered: MAB-II, MMPI-II-RF, NEO-PI-3, psychosocial histories
- Provided psychological evaluations and consultation for an officer selection program

Supervisors: CDR Hiller Lauby, Ph.D., ABPP, LT Ryan Maid, Psy.D., & Eric Taylor, Ph.D.

**Walter Reed National Military Medical Center/Psycho-diagnostic Assessment Service**

*February 2016-June 2016*

Position: Clinical Extern

- Assessments administered: MMPI-II, MCMI-III, R-PAS, PAI, RISB
- Comprehensive medical record reviews
- Psychological evaluations and consultation for inpatient, intensive outpatient/partial hospitalization, addiction treatment services, and outpatient psychiatric clinics

Supervisors: Elizabeth Lynch, Psy.D., ABPP

**Walter Reed National Military Medical Center/Outpatient Behavioral Health Clinic**

*September 2015-June 2016*

Position: Clinical Extern

- Individual, group, and couples psychotherapy for active duty military, veterans, and dependents
- Provided supervision on Prolonged Exposure, Cognitive Processing Therapy, Cognitive Behavior Conjoint Therapy, Group-based Problem Solving Therapy
- Assessment for military special duty jobs, medical retirements, and administrative separations
- Didactics and seminars on suicide risk assessments, military and operational ethics, and recruiter selection

Supervisors: Augusto Ruiz, Psy.D & Brandy Hellman, Psy.D.

**Superior Court of Washington, D.C./Child Guidance Clinic**

*May 2015-August 2015*

Position: Clinical Extern

- Psychoeducational assessments in child and adolescent offenders
- Measures used: WAIS-IV, WISC-V, MACI, WJ-IV, Rorschach (Exner system), clinical interviewing, CBCL, ABAS, court record review, collateral interviews with parents, school counselors, and probation officers
- Comprehensive report writing; reports used by judges, attorneys, and probation officers to provide educational and social services

Supervisor: Rachel Schuchart, Psy.D.

**USUHS/Laboratory of Cognitive Interventions**

*October 2014-November 2015*

Position: Smoking cessation counselor/Research Assistant

- Motivational interviewing and psycho-education are the primary treatment modalities. Coping skills training and relaxation training also incorporated into therapy protocol.
- Therapy employed within a clinical research study for smoking cessation

Supervisor: Jeanette Witter, Ph.D.

**National Institute of Alcohol Abuse and Alcoholism/Outpatient Clinic**

*June 2012-June 2014*

Position: Post-baccalaureate fellow

- 41 administrations of the Structured Clinical Interviews for DSM-IV-TR Axis I disorders (SCID)
- 45 administrations of the Wechsler Abbreviated Scale of Intelligence (WASI)
- Observation of group therapy (utilizing a combined approach of cognitive-behavioral coping skills, motivational enhancement, and twelve-step facilitation)

Clinical staff: Laura Kwako, Ph.D., Mary Lee, M.D., Nancy Diazgranados, M.D., David Spero, R.N., & Tom Lionetti, R.N.

**Mental Health Association of Montgomery County/Crisis Hotline**

*August 2012-October 2013*

Position: Hotline Counselor

- 140 hours on call
- 52 hours of crisis training with continuing education requirements
- Accredited Crisis Center by American Association of Suicidology

Supervisor: Rachel Larkin, L.C.S.W.

**CLINICAL WORKSHOPS ATTENDED**

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**Training Providers in CBT plus Hypnosis-an Evidence-based Fatigue Intervention**

*March-May 2018*

Instructors: Guy Montgomery, Ph.D., Kristene Doyle, Ph.D., Sc.D., Michael Constantino, Ph.D., Sheryl Green, M.B.B.Ch.

**American Society of Clinical Hypnosis: Advanced Workshop**

*June 2017*

Instructors: Akira Otani, Ed.D., ABPH, Linda Thomson M.S.N., C.P.N.P., Sharon Spiegel, Ph.D., ABPP, Mary Wells, Ph.D., Don Lynch, M.D., FACS, ABMH

**Caring for Transgender Persons in a Changing Environment: A Workshop for Behavioral Health Providers and Trainees**

*September 2016*

Instructors: Lindsey Buckman, Psy.D., Shawn MacDonald, Ph.D., & Randall Ehrbar, Psy.D.

**American Society of Clinical Hypnosis: Intermediate Workshop**

*June 2016*

Instructors: Akira Otani, Ed.D., ABPH, Linda Thomson M.S.N., C.P.N.P., Wendy Lemke, M.S., Eric Spiegel, Ph.D., & Judy Thomas, D.D.S.

**Revised Standards for Recruiter Suitability Assessments**

*December 2015*

Instructor: Barbara Q. Tobias-Holtz, Ph.D., M.S.N., R.N.

**Collaborative Assessment for the Management of Suicidality**

*September 2015*

Instructor: David Jobes, Ph.D., ABPP

**American Society of Clinical Hypnosis: Basic Workshop**

*June 2015*

Instructors: Sharon Spiegel, Ph.D., ABPP, Mary Wells, Ph.D., G. Layne Wagaman, Ed.D., & Judy Thomas, D.D.S.

**Introduction to the MMPI-II-RF**

*May 2015*

Instructor: Yossef Ben-Porath, Ph.D.

**Prolonged Exposure for PTSD**

*March 2015*

Instructor: David Riggs, Ph.D.

**RESEARCH EXPERIENCE**

---

**Naval Medical Center Portsmouth**

*February 2018-*

*present*

***Main Operating Room/Surgical Patient Interest in Complementary Therapy - Hypnosis for Anxiety and Pain***

Position: Associate Investigator

Principal Investigator: CDR Stuart R. Hitchcock, R.N., Ph.D.

**Laboratory of Cognitive Interventions**

*August 2014-present*

***Department of Medical & Clinical Psychology/F. Edward Hébert School of Medicine/Uniformed Services University of the Health Sciences, Bethesda, Maryland***

Position: Graduate Research Assistant & Principle Investigator

Lab Chief: Andrew J. Waters, Ph.D.

**Section on Clinical Psychoneuroendocrinology and Neuropsychopharmacology**

*June 2012-June 2014*

***Laboratory of Clinical and Translational Studies, National Institute on Alcohol Abuse and Alcoholism & National Institute on Drug Abuse. National Institutes of Health, Bethesda, Maryland***

Position: Post-baccalaureate fellow

Principal Investigator: Lorenzo Leggio, M.D., Ph.D., M.Sc.

**Experimental and Clinical Psychopharmacology Laboratory**

*January 2011-May 2012*

***Department of Psychology/University of Georgia, Athens, Georgia***

Position: Senior Research Assistant

Principal Investigator: James MacKillop, Ph.D.

**Jackson Trauma Laboratory**

*Department of Psychology/University of Georgia, Athens, Georgia*

Position: Research Assistant

Principal Investigator: Joan Jackson, Ph.D.

*January 2012-May 2012*

**PUBLICATIONS**

---

**Bollinger, J.W.** (2018). Rate of Adverse Events related to Hypnosis during Clinical Trials. *American Journal of Clinical Hypnosis*, 60(4), 357-366. doi: 10.1080/00029157.2017.1315927.

**Bollinger, J.W.** & Waters, A.J. (2018). Substance Use Treatment Programs in the Active Duty US Military: A Narrative Review. *Military Psychology*, 30(1), 1-9. doi: 10.1080/08995605.2017.1419019.

**Bollinger, J.W.** (2017). Evidence of Absence: Proposals for Improving Treatment for Combat-PTSD. *The Military Psychologist*, 32(2), 11-14.

Farokhnia, M. Schwandt, M.L., Lee, M.R., **Bollinger, J.W.**, Farinelli, L.A., Amodio, J.P., Sewell, L., Lionetti, T.A., Spero, D.E. Leggio, L. (2017). Biobehavioral effects of baclofen in anxious alcohol-dependent individuals: A randomized, double-blind, placebo-controlled, laboratory study. *Translational Psychiatry*, 7(4): e1108. doi: 10.1038/tp.2017.71.

Lee, M.R., Schwandt, M., **Bollinger, J.**, Dias, A.A., Oot, E., Goldman, D., Hodgkinson, C., & Leggio, L. (2015). Effect of Functionally Significant Deiodinase Single Nucleotide Polymorphisms on Drinking Behavior in Alcohol Dependence: An Exploratory Investigation. *Alcoholism: Clinical and Experimental Research*. 39 (9): 1665-70. doi: 10.1111/acer.12814.

Lee, M.R, **Bollinger, J.**, & Leggio, L. (2013). Increased ethanol consumption following chronic psychosocial stress: Do oxytocin and baclofen hold any therapeutic promise?. *Frontiers in Psychiatry* 4:148. doi: 10.3389/fpsy.2013.00148

Mackillop, J., Acker, J.D., **Bollinger, J.**, Clifton, A., Miller, J.D., Campbell, W.K., Goodie, A.S. (2013) Brief Report: The Brief Alcohol Social Density Assessment (BASDA): Convergent, Criterion-Related, and Incremental Validity. *Journal of Studies on Alcohol and Drugs*. 74(5):810-5.

**EDITORIAL WORK**

---

**Alcohol and Alcoholism**  
Ad-hoc reviewer

*August & December 2014, April 2016, February, March, & November 2017*

**Health Psychology**  
Co-reviewer

*June, September 2015*

**PRESENTATIONS**

---

- Bollinger, J.W.** & Waters, A.J. The Relationship between Alcohol Dependence, Post-traumatic Stress Disorder, and Self-reported Aggression in a U.S. Sample. Poster presented at World Meeting of the International Society for Research on Aggression; Paris, France, July 12<sup>th</sup>, 2018
- Bollinger, J.W.**, Beadling, C.W., & Waters, A.J. The Effect of Hypnotic Suggestion on Cognition in Smokers. Poster presented at USU Research Days; Bethesda, Maryland, May 16<sup>th</sup>, 2018
- Bollinger, J.**, Brede, E., Lammers, J., Meloscia, C., Waters, A.J. The feasibility of a six-week attentional retraining program delivered via smartphone for smoking cessation. Poster presented at USU Research Days; Bethesda, Maryland, May 12<sup>th</sup>-13<sup>th</sup>, 2015
- Farokhnia, M, Edwards, S.M., **Bollinger, J.**, Amodio, J., Zywiak, W.H., Tidey, J.W., Swift, R.M., Kenna, G.A., Leggio, L. Baclofen as a Pharmacotherapy for the Treatment of Concurrent Alcohol and Nicotine Dependence: A Double-blind, Placebo-controlled, Randomized Trial. Poster presented at the 53<sup>rd</sup> Annual Meeting of the American College of Neuropsychopharmacology (ACNP); Phoenix, AZ, December 7-11, 2014. Abstract in Neuropsychopharmacology 39 (Supplement S1): S340, 2014.
- Bollinger, J.**, Leggio L., Zywiak, W.H., Edwards, S.M., Tidey, J.W., Swift, R.M., Kenna, G.A. *A double-blind, placebo-controlled randomized pilot study of baclofen effects on alcohol-tobacco co-use and alcohol cue-reactivity in alcoholic smokers.* Poster presented at Translational Science 2014 Meeting; Washington, DC, April 9-11, 2014; abstract in Clinical & Translational Science, 2014.
- Lee, M.R., Schwandt, M., Feduccia A.A., **Bollinger, J.**, Dias, A.A., Oot, E., George, D.T., Hommer, D.W., Goldman, D., Hodgkinson, C., Heilig, M., Leggio L. *Effect of functionally significant deiodinase SNP's on thyroid hormone levels, dependence severity and craving in alcohol dependence.* Poster presented at the 36<sup>th</sup> Annual Scientific Meeting of the Research Society on Alcoholism (RSA); Orlando, FL, June 22-26, 2013; abstract in Alcoholism: Clinical and Experimental Research, 37 (Suppl. 2): 152A, 2013.
- Feduccia, A.A., Suchankova, P., Schwandt, M.L., Yan, J., Lee, M.R., Oot, E.N., **Bollinger, J.W.**, Dias, A.A., Goldman, D., Hodgkinson, C., George, D.T., Hommer, D.W., Heilig, M., Ramchandani, V.A., Leggio, L. *Polymorphisms in the preproghrelin gene (GHRL) are associated with alcohol drinking behaviors.* The 36<sup>th</sup> Annual Meeting of the Research Society on Alcoholism, Orlando, FL June 2013; abstract in Alcoholism: Clinical and Experimental Research, 37 (Suppl. 2): 68A, 2013.
- Bollinger, J.**, Lee, M., Suchankova Karlsson, P., Schwandt, M., Feduccia, A., Dias A., Oot, E., George, D. T., Goldman, D., Hodgkinson, C., Heilig, M., & Leggio, L. *Possible Role of Thyroid Stimulating Hormone (TSH) on Alcohol Consumption in Alcoholic and Non-alcoholic Individuals.* Poster presented at the NIH IRTA Postbac Poster Day; Natcher Conference Center (Building 45), NIH main campus, Bethesda, MD, 1 May 2013.
- Oot, E.N., Dias, L., **Bollinger, J.**, Coe, M., Schwandt, M., Feduccia, A., Suchankova, P., Lee, M., Ramchandani, V.A., Leggio, L. *Does Intravenous Alcohol Administration Affect Plasma Ghrelin Levels? A Pilot Study on Social Drinkers.* Poster presented at the NIH IRTA Postbac Poster Day; Natcher Conference Center (Building 45), NIH main campus, Bethesda, MD, 1 May 2013.
- Dias, L.A., Oot, E.N., **Bollinger, J.**, Coe, M., Schwandt M., Suchankova, P., Feduccia, A., Lee, M., Ramchandani, V.A., Leggio, L. *Feeding-Related Hormones and Intravenous Alcohol Administration in Social Drinkers.* Poster presented at the NIH IRTA Postbac Poster Day; Natcher Conference Center (Building 45), NIH main campus, Bethesda, MD, 1 May 2013.
- Feduccia, A.A., Suchankova, P., Schwandt, M.L., Lee, M.R., Oot, E., **Bollinger, J.W.**, Lexi, A.A., Goldman, D.,



Hodgkinson, C., George, D.T., Hommer, D.W., Heilig, M., Ramchandani, V.A., Leggio, L. *Genetic variations in the preproghrelin in gene (GHRH) are associated with alcohol drinking behaviors*. Poster presented at the Translational Science 2013 Meeting; Washington, D.C., 17-19 April 2013; abstract in Clinical and Translational Science, 6(2): 108, 2013.

**Bollinger, J., Acker, J., & MacKillop, J.** *Personality Characteristics and Drinking Motives as Determinants of Perceptions of Social Network Drinking Patterns*. Poster presented at the 11<sup>th</sup> Annual Georgia Undergraduate Research in Psychology Conference. Kennesaw, GA, 14 April 2012.

**Bollinger, J., Flanery, C., Gay, L., & Jackson, J.** *Behavioral Disengagement as a Mediator between Childhood Emotional Abuse and Depression*. Poster presented at 35<sup>th</sup> Annual Convention of the Behavioral Sciences, Athens, GA, 30 March 2012.

**Bollinger, J., Acker, J., & MacKillop, J.** *Initial Validation of the Brief Alcohol Behavior Social Density Assessment (BASDA) in a College Student Sample*. Poster presented at the 35<sup>th</sup> Annual Convention of the Behavioral Sciences. Athens, GA, 30 March 2012.

## GRANTS

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### **The Effect of Suggestion on Cognition in Smokers**

USUHS Graduate Education Office special fund for doctoral dissertation research  
Funded: \$5,000; Grant score: n/a

### **A Pilot Study of Hypnotherapy for Combat-related Post-traumatic Stress Disorder**

Submitted October 2017 to the Society for Military Psychology's (Division 19 of the American Psychological Association) Student Affiliate Grant Committee  
Funded: \$2,250; Grant score: n/a

### **Hypnotherapy for Combat-related Post-traumatic Stress Disorder**

Submitted April 2017 to the American Psychology Foundation's Visionary Grant Committee  
Unfunded: \$20,000; Grant score: n/a

### **Confidential and Non-Confidential Treatment for Alcohol Use Disorder in the United States Military: A Natural History Study**

Submitted November 2015 to the Society for Military Psychology's (Division 19 of the American Psychological Association) Student Affiliate Grant Committee  
Unfunded: \$2,250; Grant score: 8.07/10

## TEACHING EXPERIENCE

---

### **Clinical Assessment I, II, & III (Simulation Center)**

*Fall & Winter 2017, Spring 2018*

Position: Teaching Assistant  
Instructor: Layne Bennion, Ph.D.

### **Group Psychotherapy**

*Spring 2017*

Position: Teaching Assistant  
Instructor: Tracy Sbrocco, Ph.D.

**Statistics II**

*Winter 2016-2017*

Position: Teaching Assistant  
Instructor: Andrew Waters, Ph.D.

**Seminar in Medical and Clinical Psychology & Case Conference**

*Winter 2015 & Spring 2016*

Position: Teaching Assistant  
Instructors: Jeffrey Goodie, Ph.D., ABPP & Jeanette Witter, Ph.D.

**Health Policy**

*Summer 2015*

Position: Co-teaching Assistant  
Instructor: Patrick DeLeon, Ph.D., J.D., M.P.H.

**LEADERSHIP EXPERIENCE**

---

**Search Committee - Assistant Dean for Graduate Student Development and Support**

*January 2018*

Position: Student committee member

**USUHS Medical and Clinical Psychology Student Advocacy Committee**

*2016-2018*

Position: Chair

**AWARDS**

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**International Society for Research on Aggression Student Travel Award**

*July 2018*

**1<sup>st</sup> Place, Division 19 Clinical Practice Committee Writing Contest (for Student Affiliates)**

*March 2017*

**University of Georgia President's List**

*Summer 2010 & 2011*

**Helping Outstanding Pupils Educationally (HOPE) Scholarship**

*August 2008-January 2012*

**AFFILIATIONS**

---

**Society for Military Psychology (Division 19, American Psychological Association)**  
*Student Affiliate*

*October 2014-present*

**Society of Psychological Hypnosis (Division 30, American Psychological Association)**  
*Student Affiliate*

*February 2019-present*

**RESEARCH REFERENCES**

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Lorenzo Leggio, M.D., Ph.D., M.Sc., Tenure-track Investigator and Section Chief, Section on Clinical Psychoneuroendocrinology and Neuropsychopharmacology, National Institutes of Health, 10 Center Drive, Bethesda, MD, 20814. Office: 301-435-9398; E-mail: lorenzo.leggio@nih.gov.

James MacKillop, Ph.D., Professor of Psychiatry & Behavioural Neurosciences, Director of the Peter Boris Centre for

Addictions Research, Peter Boris Chair in Addictions Research, McMaster University. Hamilton, Ontario  
L8S4L8 Office: 905-522-1155, x.39492; Email: [jmackill@mcmaster.ca](mailto:jmackill@mcmaster.ca).

Andrew Waters, Ph.D., Professor, Director of the Laboratory of Cognitive Interventions, Director of Graduate Studies, Department of Medical and Clinical Psychology, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD, 20814. Office: 301-295-9675. E-mail: [andrew.waters@usuhs.edu](mailto:andrew.waters@usuhs.edu).

## **CLINICAL REFERENCES**

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Laura Kwako, Ph.D., Clinical Research Psychologist, Office of the Clinical Direction, National Institute of Alcohol Abuse and Alcoholism, NIH Clinical Center, 10 Center Drive, Bethesda, MD, 20814. E-mail: [laura.kwako@nih.gov](mailto:laura.kwako@nih.gov).

Joseph Snow, Ph.D., ABPP-CN & Laura Segala, Psy.D., Staff Scientists, Psychiatric and Consultation Service, National Institute of Mental Health, NIH Clinical Center, 10 Center Drive, Bethesda, MD, 20814. Office: 301-496-5197; E-mail: [josephsnow@mail.nih.gov](mailto:josephsnow@mail.nih.gov).

CDR Samuel Dutton, Ph.D. M.S.C.P., Medical Psychologist, US Public Health Service detailed to US Navy, Naval Health Clinic Annapolis & US Naval Academy, 250 Wood Rd., Annapolis, MD. Office: (410) 293-3208. Email: [samuel.s.dutton.mil@mail.mil](mailto:samuel.s.dutton.mil@mail.mil)

Jeanette Witter, Ph.D., Assistant Professor, Clinical Supervisor, Department of Medical and Clinical Psychology, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD, 20814. Office: 301-295-9671. E-mail: [jeanette.witter@usush.edu](mailto:jeanette.witter@usush.edu).

Elizabeth Lynch, Psy.D., ABPP, Staff Psychologist, Psycho-diagnostic Testing Service, Walter Reed National Military Medical Center, 8901 Wisconsin Avenue, Bethesda, MD, 20814. Email: [Elizabeth.lynch.civ@mail.mil](mailto:Elizabeth.lynch.civ@mail.mil).

Augusto Ruiz, Psy.D., Staff Psychologist, Outpatient Behavioral Health Clinic, Walter Reed National Military Medical Center, 8901 Wisconsin Avenue, Bethesda, MD, 20814. Email: [augusto.ruiz.ctr@mail.mil](mailto:augusto.ruiz.ctr@mail.mil).

Brandy Hellman, Psy.D., Staff Psychologist, Outpatient Behavioral Health Clinic, Walter Reed National Military Medical Center, 8901 Wisconsin Avenue, Bethesda, MD, 20814. Email: [brandy.hellman.civ@mail.mil](mailto:brandy.hellman.civ@mail.mil).

Rachel Schuchart, Psy.D., Clinical Director, Safe Shores – DC Children's Advocacy Center, 429 O Street, NW, Washington, DC, 20001; Office: 202-645-3200; E-mail: [Rachel.schuchart@gmail.com](mailto:Rachel.schuchart@gmail.com).



**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**  
4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712  
usuhs.edu



April 12, 2019

**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 Doctor of Philosophy degree effective upon your approval:

**Andrew James Dimond**

**DOCTOR OF PHILOSOPHY**

Department of Medical and Clinical Psychology

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 Title Page, Dissertation Abstract, and Curriculum Vitae.

Arthur L. Kellermann, MD, MPH  
Dean, USUHS, School of Medicine

Attachments:  
As stated



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

SCHOOL OF MEDICINE GRADUATE PROGRAMS

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



## FINAL EXAMINATION/PRIVATE DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

Name of Student: Andrew J. Dimond

Date of Examination: June 7, 2018

Time: 1:00 PM

Place: Room B3004

### DECISION OF EXAMINATION COMMITTEE MEMBERS:

PASS

FAIL

✓

Dr. Andrew J. Waters

DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY

Committee Chairperson

✓

Dr. David S. Krantz

DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY

Dissertation Advisor

X

Dr. Jeffrey Goodie

DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY

Committee Member

X

Dr. Cara Olsen

DEPARTMENT OF PREVENTIVE MEDICINE & BIOSTATISTICS

Committee Member



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

## SCHOOL OF MEDICINE GRADUATE PROGRAMS

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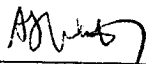
### APPROVAL OF THE DOCTORAL DISSERTATION IN THE DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

Title of Dissertation: "A Hearty Issue: Association of Stress, Anger, and Anxiety with Three Year Heart Failure Outcomes"

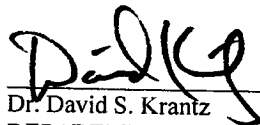
Name of Candidate: Andrew J. Dimond  
Doctor of Philosophy Degree  
June 7, 2018

#### DISSERTATION AND ABSTRACT APPROVED:


DATE:

  
\_\_\_\_\_  
Dr. Andrew J. Waters  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Chairperson


6/27/18

  
\_\_\_\_\_  
Dr. David S. Krantz  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Dissertation Advisor

6/27/18

  
\_\_\_\_\_  
Dr. Jeffrey Goodie  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Member


6/27/18

  
\_\_\_\_\_  
Dr. Cara Olsen  
DEPARTMENT OF PREVENTIVE MEDICINE & BIostatISTICS  
Committee Member

6/27/18

## **COPYRIGHT STATEMENT**

The author hereby certifies that the use of any copyrighted material in the dissertation manuscript entitled: A Hearty Issue: Association of Stress, Anger, and Anxiety with Three Year Heart Failure Outcomes is appropriately acknowledged and, beyond brief excerpts, is with the permission of the copyright owner.



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Andrew J. Dimond

May 17<sup>th</sup>, 2019

## **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.

A Hearty Issue: Association of Stress, Anger, and Anxiety with Three Year Heart Failure  
Outcomes

by

Andrew J. Dimond

Dissertation submitted to the Faculty of the  
Medical and Clinical Psychology Graduate Program  
Uniformed Services University of the Health Sciences  
In partial fulfillment of the requirements for the degree of  
Doctor of Philosophy in Clinical Psychology, 2019



## ABSTRACT

### A Hearty Issue: Association of Stress, Anger, and Anxiety with Three Year Heart Failure Outcomes

Andrew J. Dimond, Ph.D., 2019

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

**Background.** Heart failure negatively impacts the health and quality of life of millions of individuals worldwide. Previous studies have identified stress, anger, and anxiety as psychosocial factors associated with incidence and exacerbation of coronary heart disease and CHF. However, stress, anger, and anxiety often are associated with one another, and the extent to which these characteristics overlap in the degree to which they contribute to CHF exacerbations is unclear. **Methods.** This study involved secondary analyses of the Project BETRHEART dataset, which examined the longitudinal predictors of heart failure exacerbations over a 3 year period. Anger (Weekly Anger Inventory), anxiety (State-Trait Anxiety Scale-State Anxiety), stress (Perceived Stress Scale) and their prospective relationships to all-cause, cardiovascular, and CHF hospitalizations and self-reported CHF symptoms and health status (Kansas City Cardiomyopathy Scale-KCCQ) were examined at baseline, 3 months, and subsequent 6 month intervals over a period of 39 months using marginal models and generalized marginal models. Results yielded between-subjects “chronic” and within-subjects “acute” effects consisting of changes over time in relation to the subjects’ own mean scores. **Results.** There was a predictive relationship between anger and reduced KCCQ, but not between anger and hospitalizations. Anxiety was similarly predictive of KCCQ scores, but was additionally predictive of CHF and all-cause hospitalizations. Perceived stress was also predictive of KCCQ scores and all-cause and

cardiovascular hospitalizations. Analyses of individual predictors controlling for the other two independent variables indicated that acute anger was independently associated with health status, and chronic anger was unexpectedly associated with decreased CHF hospitalization rate. Acute anxiety was independently associated with KCCQ-Clinical Summary scores. Chronic anxiety was independently associated with both CHF and all-cause hospitalizations. Stress was independently associated with KCCQ health status at the acute and chronic levels. Stress was also independently associated with all-cause hospitalizations at the acute level only. Summary measures from the KCCQ produced significant associations at the acute and chronic level with all three types of hospitalizations, except for an acute level effect for KCCQ-Clinical Summary and CHF hospitalizations. When controlling for anger, anxiety, and stress, both KCCQ measures were significantly associated with all three types of hospitalizations. **Conclusion.** All three psychosocial risk factors were associated with measures of CHF worsening. Chronic measures of anxiety and stress were significantly associated with more CHF outcomes and stronger relationships compared to acute measures of anxiety and stress. However, when controlling for each other, they each had a unique pattern of association with CHF outcomes, with stress and anxiety having the strongest association with hospitalizations. Mechanisms for these associations may involve changes in health behaviors and physiological activation. Consequently, psychological interventions intended to reduce the significant cost related to CHF re-hospitalizations may benefit most from targeting stress and anxiety and/or the mechanisms linking stress and anxiety to CHF outcomes.

**Andrew J. Dimond**  
Captain, United States Air Force

**EDUCATION**

**Beloit College**, Beloit, WI

Degree: B.A. with honors in Psychology, 2012

Graduated *Summa Cum Laude*

**Uniformed Services University of the Health Sciences (USU)**, Bethesda, MD

Degree: M.S. in Clinical and Medical Psychology, 2016

**USU**, Bethesda, MD

Current: Clinical Psychology Ph.D. Program

Expected completion: 2019

***Honors***

- Phi Beta Kappa honor society
- Psi Chi honor society
- Phi Sigma Iota honor society
- Guy Allan Tawney Prize (outstanding psychology sophomore)
- Walter Van Dyke Bingham Fellowship Scholarship in Psychology (outstanding graduating seniors)
- Colorado State University Research Experience for Undergraduates (REU) program, First Prize
- Selected for USU T0 Award dissertation research grant

**PUBLICATIONS**

***Master's Thesis:***

Dimond, A. J. (2016). State anger and short-term heart failure outcomes: Comparison with perceived stress (Unpublished master's thesis). Uniformed Services University of the Health Sciences, Bethesda, MD.

***Papers:***

Dimond, A. J., & Tiesling-Rusch, A. (2013). Across hemispheres: Comparing interhemispheric transfer times of Japanese and Americans. *Undergraduate Research Journal for the Human Sciences*, 12. Retrieved from <http://www.kon.org/urc/v12/dimond.html>

Tiesling-Rusch, A., & Dimond, A. J. (2012). Cross-cultural differences in the numeric Stroop test: A comparison of native and non-native Japanese speakers. *Undergraduate Research Journal for the Human Sciences*, 11. Retrieved from <http://www.kon.org/urc/v11/rusch.html>

***Abstracts:***

Dimond, A. J., Krantz, D. S., Waters, A. J., Endrighi, R., & Gottlieb, S. S. (2016). Anger and short-term heart failure outcomes: Comparison with perceived stress [Abstract]. *Annals of Behavioral Medicine*, 50, 185.

**PRESENTATIONS**

***Paper Presentations:***

Dimond, A. J., Krantz, D. S., Waters, A. J., Endrighi, R., & Gottlieb, S. S. (2016, May). Anger and short-term heart failure outcomes: Comparison with perceived stress. Presented at the

Medical and Clinical Psychology department seminar of the Uniformed Services University of the Health Sciences, Bethesda, MD.

Dimond, A. J., Krantz, D. S., Waters, A. J., Endrighi, R., & Gottlieb, S. S. (2016, April). Anger and short-term heart failure outcomes: Comparison with perceived stress. Presented at the 37<sup>th</sup> annual meeting of the Society of Behavioral Medicine, Washington, D.C.

Dimond, A. J., & Tiesling-Rusch, A. (2012, November). A world apart, but are we really? Two cross-cultural psychology comparisons of Japanese and Americans. *International Symposium Day*. Symposium conducted at Beloit College, Beloit, WI.

Dimond, A. J. (2012, April). There and back again: Studying semantic processing. *Student Symposium Day*. Symposium conducted at Beloit College, Beloit, WI.

### **Poster Presentations:**

Dimond, A. J., Braunlich, K., & Seger, C. A. (2013, May). *To be or to A: fMRI and behavioral investigation of categorical evidence integration*. Poster session presented at the 25<sup>th</sup> annual convention of the Association for Psychological Science, Washington, D.C.

Dimond, A. J., Braunlich, K., & Seger, C. A. (2012, November). *To be or to A: fMRI and behavioral investigation of categorical evidence integration*. Poster session presented at the meeting of the Midstates Consortium for Math and Science, Chicago, IL.

Tiesling-Rusch, A., & Dimond, A. J. (2012, November). *Cross-cultural numerical Stroop test*. Poster session presented at the Tri-State Undergraduate Psychology Conference, Platteville, WI.

Dimond, A. J., & Tiesling-Rusch, A. (2012, November). *Comparison of interhemispheric transfer time between Japanese and English speakers*. Poster session presented at the Tri-State Undergraduate Psychology Conference, Platteville, WI.

Dimond, A. J., Braunlich, K., & Seger, C. A. (2012, August). *To be or to A: fMRI and behavioral investigation of categorical evidence integration*. Poster session presented at an open event at Colorado State University, Fort Collins, CO.

Tiesling-Rusch, A., & Dimond, A. J. (2012, May). *Cross-cultural numerical Stroop test*. Poster session presented at the meeting of the Midwestern Psychological Association, Chicago, IL.

Dimond, A. J., & Tiesling-Rusch, A. (2012, May). *Comparison of interhemispheric transfer time between Japanese and English speakers*. Poster session presented at the meeting of the Midwestern Psychological Association, Chicago, IL.

Dimond, A. J., & Kennison, S. M. (2012, May). *The role of interhemispheric transfer in semantic processing during reading*. Poster session presented at the meeting of the Midwestern Psychological Association, Chicago, IL.

Dimond, A. J., & Tiesling-Rusch, A. (2012, April). *Comparison of interhemispheric transfer time between Japanese and English speakers*. Poster session presented at the meeting of the Beloit College chapter of Phi Sigma Iota, Beloit, WI.

Dimond, A. J., & Kennison, S. M. (2011, August). *The role of interhemispheric transfer in semantic processing during reading*. Poster session presented at an open event at Oklahoma State University, Stillwater, OK.

### **Reviews**

#### **Peer Reviews:**

Served as a peer reviewer of a manuscript for the journal *Emotion Review*.



**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**  
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April 12, 2019

**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 Doctor of Philosophy degree effective upon your approval:

**Zachary C. Janatpour**

**DOCTOR OF PHILOSOPHY**

Molecular and Cell Biology Graduate 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 Title Page, Dissertation Abstract, and Curriculum Vitae.

Arthur L. Kellermann, MD, MPH  
Dean, USUHS, 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



**FINAL EXAMINATION/PRIVATE DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY  
IN THE MOLECULAR AND CELL BIOLOGY PROGRAM**

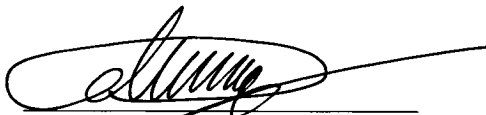
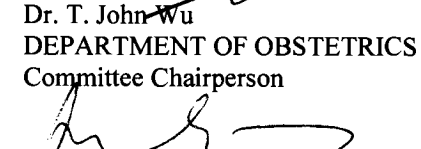
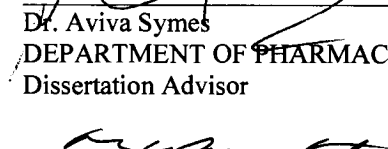
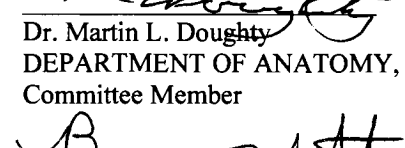
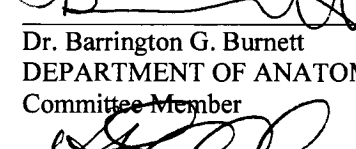
Name of Student: Zachary C. Janatpour

Date of Examination: December 11, 2018

Time: 9:00 AM

Place: Room C2015

**DECISION OF EXAMINATION COMMITTEE MEMBERS:**

	PASS	FAIL
 Dr. T. John Wu DEPARTMENT OF OBSTETRICS & GYNECOLOGY Committee Chairperson	✓	_____
 Dr. Aviva Symes DEPARTMENT OF PHARMACOLOGY Dissertation Advisor	✓	_____
 Dr. Martin L. Doughty DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS Committee Member	✓	_____
 Dr. Barrington G. Burnett DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS Committee Member	✓	_____
 Dr. Randy S. Bell WALTER REED NATIONAL MILITARY MEDICAL CENTER, NEUROLOGICAL SURGERY Committee Member	✓	_____



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



DISSERTATION APPROVAL FOR THE DOCTORAL DISSERTATION IN THE MOLECULAR AND  
CELL BIOLOGY PROGRAM

Title of Dissertation: "Targeting the Extended Renin-angiotensin System to Treat Traumatic Brain Injury"

Name of Candidate: Zachary C. Janatpour  
Doctor of Philosophy Degree  
December 11, 2018

DISSERTATION AND ABSTRACT APPROVED:

Dr. T. John Wu  
DEPARTMENT OF OBSTETRICS & GYNECOLOGY  
Committee Chairperson

DATE:

2/4/18

  
Dr. Aviva Symes  
DEPARTMENT OF PHARMACOLOGY  
Dissertation Advisor

12/11/18

  
Dr. Martin L. Doughty  
DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS  
Committee Member

12/11/18

  
Dr. Barrington G. Burnett  
DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS  
Committee Member

12/11/18

  
Dr. Randy S. Bell  
WALTER REED NATIONAL MILITARY MEDICAL CENTER, NEUROLOGICAL SURGERY  
Committee Member

11 DEC 2018

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

**“TARGETING THE EXTENDED RENIN-ANGIOTENSIN SYSTEM TO TREAT TRAUMATIC  
BRAIN INJURY”**

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

A handwritten signature in black ink, appearing to read 'Zachary C. Janatpour', with a stylized flourish at the end.

Zachary C. Janatpour  
Molecular and Cell Biology Graduate Program  
Department of Pharmacology  
Uniformed Services University  
Date 03/31/2019



TARGETING THE EXTENDED RENIN-ANGIOTENSIN SYSTEM TO TREAT  
TRAUMATIC BRAIN INJURY

by

Zachary C. Janatpour

Dissertation submitted to the Faculty of the  
Molecular and Cell Biology Graduate Program  
Uniformed Services University of the Health Sciences  
In partial fulfillment of the requirements for the degree of  
Doctor of Philosophy 2018

## **ABSTRACT**

Targeting The Extended Renin-Angiotensin System To Treat Traumatic Brain Injury:

Zachary C. Janatpour, Doctor of Philosophy, 2018

Thesis directed by: Aviva J. Symes, Professor, Department of Pharmacology and Molecular Therapeutics

Angiotensin II (Ang II), the vasoactive peptide of the classic renin-angiotensin system (RAS), serves many roles beyond blood pressure modulation. Activation of angiotensin II type I receptor (AT1R) by Ang II within the central nervous system can promote glial proliferation, local inflammation, and a decrease of cerebral blood flow. Angiotensin-(1-7) (Ang-(1-7)) is cleaved from Ang II by the actions of angiotensin converting enzyme 2 (ACE2) and is a ligand of the extended RAS. Ang-(1-7) has low affinity for AT1R instead acting as the ligand to the Mas receptor (MasR), which is widely expressed in the brain. The ACE2/Ang-(1-7)/MasR axis acts to counter Ang II signaling at many levels and has anti-inflammatory, vasodilatory, and neuroprotective effects. We are investigating novel therapeutics to improve recovery from traumatic brain injury (TBI), using a mouse model of controlled cortical impact (CCI). Our laboratory has previously shown that inhibition of AT1R signaling improves recovery from

CCI injury in mice. Here we sought to determine if activation of Ang-(1-7)/MasR signaling would also be beneficial in this TBI model.

Male adult C57BL/6 mice were injured by CCI. Ang-(1-7) or vehicle was administered by daily subcutaneous (SQ) injection or continuous SQ infusion, starting at 1 or 6 hours post injury until animals were sacrificed at 3 or 29 days post injury (dpi). Ang-(1-7) treatment attenuated motor deficits determined by the rotarod test at 3 dpi and improved cognitive recovery in the Morris water maze at 29 dpi. Brain histology and/or MRI indicated that Ang-(1-7) treated mice had a smaller lesion volume at 3, 10, 24, and 29 dpi. Pretreatment with the MasR antagonist A779 blocked Ang-(1-7)-reduced lesion volume at 3 dpi suggesting that this beneficial effect of Ang-(1-7) treatment was mediated through the MasR. Immunohistochemistry revealed that Ang-(1-7) treatment reduced microgliosis and astrogliosis and decreased neuronal and capillary loss at different time points following injury. In summary, Ang-(1-7) treatment, administered SQ after injury had anti-inflammatory, neuro- and cerebrovascular protective actions leading to improved functional and pathological recovery in a mouse model of TBI. These data show for the first time that Ang-(1-7) has potential therapeutic use for TBI.

**Zachary C. Janatpour**  
**2<sup>nd</sup> Lieutenant, United States Army**  
**Medical Service Corps**

**Office:** 4301 Jones Bridge Rd, Bethesda, Maryland 20814. Room C-2045.

**Civilian E-mail:** [zachary.janatpour@usuhs.edu](mailto:zachary.janatpour@usuhs.edu)

**Military E-mail:** [zachary.c.janatpour.mil@mail.mil](mailto:zachary.c.janatpour.mil@mail.mil)

**Cell:** 650-278-3642

**Work:** 301-295-3235

**Occupation**

- **5<sup>th</sup> Year student, Physician-Scientist Training Program (M.D.-Ph.D.).** Uniformed Service University, Bethesda, Maryland. 2014-Present
- **Second Lieutenant, Medical Service Corps, United States Army.** Bethesda, Maryland. 2017- Present
- **Certified Phlebotomy Technician, Student Health Clinic.** University of California, Santa Cruz, Santa Cruz, California. 2011-2014.

**Education**

- **B.S. Biochemistry and Molecular Biology.** University of California, Santa Cruz. Santa Cruz, California. 2014

**Leadership**

- **President (co-founder). American Association of Neurological Surgeons, Student Chapter, at USUHS.** Uniformed Services University. Bethesda, Maryland. 2017-2018 (2015).
- **MD/PhD Representative. Graduate Student Counsel.** Uniformed Services University. Bethesda, Maryland. 2017-2018.
- **President. Healers' Motorcycle Club.** Uniformed Services University. Bethesda, Maryland. 2017-2018.
- **President. American Medical Student Association.** University of California, Santa Cruz, Santa Cruz, California. 2013-2014.

**Memberships**

- American Association of Neurological Surgeons
- American College of Physicians
- Association of Military Surgeons of the United States
- National Brain Tumor Society
- Walter Reed Society
- American Medical Student Association

**Philanthropy**

- **U.S. Dream Academy. Mentor.** Baltimore, Maryland. Weekly, 2018 – Present
- **Needs For Free. Owner and Founder.** Santa Cruz, California. Monthly, 2011-2015.
- **Street Outreach Supporters. Volunteer.** Santa Cruz, California. Weekly. 2011-2014.

**Honors and Awards**

- **3<sup>rd</sup> Place American College of Physicians Washington, D.C. Student Abstract Competition.** \$50.00. November 2018
- **1<sup>st</sup> Place Graduate Student Presentation. National Capital Area TBI Research Symposium 2018.** \$200.00. March 2018.
- **Astellas USA Foundation Scholarship Award.** \$12,500.00. 2013-2014.

**Presentations**

- **Data Blitz.** National Capital Area TBI Research Symposium 2018. Zachary C. Janatpour. March 2018. National Institutes of Health, Bethesda, Maryland.
- **Departmental Seminar.** Targeting the Renin Angiotensin Aldosterone System for Treatment of Traumatic Brain Injury. Zachary C. Janatpour. February 2018. Department of Pharmacology. Uniformed Services University, Bethesda, Maryland.

**Posters**

- **American College of Physicians District of Columbia Chapter Scientific Meeting. 2018. Subcutaneous administration of angiotensin-(1-7) improves recovery after severe controlled cortical impact injury in mice.** Zachary C. Janatpour, Alexandru Korotcov, Asaomoah Bosomtwi, Bernard Dardinski, Aviva J. Symes. November 2018. Bethesda, Maryland. *Finalist, 3<sup>rd</sup> Place.*

- **Center for Neuroscience and Regenerative Medicine Retreat. 2018. Subcutaneous administration of angiotensin-(1-7) improves recovery after severe controlled cortical impact injury in mice.** Zachary C. Janatpour, Alexandru Korotcov, Asaomoah Bosomtwi, Bernard Dardinski, Aviva J. Symes. October 2018. Bethesda, Maryland.
- **Research Days at USU. Angiotensin-(1-7) improves recovery after controlled cortical impact injury in mice.** Zachary C. Janatpour, Milan Rusnak, Aviva J. Symes. May 2018. Bethesda, Maryland. *Finalist*
- **National Capital Area TBI Research Symposium 2018. Angiotensin-(1-7) improves recovery after controlled cortical impact injury in mice.** Zachary C. Janatpour, Milan Rusnak, Aviva J. Symes. March 2018. Bethesda, Maryland. *Finalist, 1<sup>st</sup> Place.*
- **2018 "Angiotensin" Gordon Research Conference. Angiotensin-(1-7) improves recovery after controlled cortical impact injury in mice.** Zachary C. Janatpour, Milan Rusnak, Aviva J. Symes. February 2018. Ventura, California.
- **National Capital Area TBI Research Symposium 2017. Angiotensin II receptor blockers differentially regulate LPS-mediated microglial activation.** Zachary C. Janatpour, Kwame Affram, Rupali Sharma, Aviva J. Symes. March 2017. Bethesda, Maryland.
- **Neuroscience 2016. Angiotensin II receptor blockers differentially regulate LPS-mediated microglial activation.** Zachary C. Janatpour, Kwame Affram, Rupali Sharma, Aviva J. Symes. March 2017. San Diego, California.

#### **Acknowledgements**

Weiss P. Total and monomethyl mercury in fog water from the central California coast, *Geophysical Research Letters*. 2012

#### **Peer Reviewed Publications**

Janatpour ZC, Welch MC, Shanmuga S, et al. The Silver Lining: Advances in the Surgical Management of Brain Trauma Attributable to War. Submitted to *World Neurosurgery*, decision pending.

Janatpour ZC, Korotcov A, Bosomtwi A, et al. Subcutaneous Administration of Angiotensin-(1-7) Improves Recovery After Traumatic Brain Injury In Mice. *Journal of Neurotrauma*. Accepted with minor revisions. Feb 2019.

Janatpour ZC, Nicholas CPT, Szu S, et al. Inadequate Decompressive Craniectomy Following a Wartime Traumatic Brain Injury – An Illustrative Case of Why Size Matters. *Mil Med*. 2019;00:1-5. doi:10.1093/milmed/usz008.



**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**  
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April 12, 2019

**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 Doctor of Philosophy degree effective upon your approval:

**Dawn N. Johnson**

DOCTOR OF PHILOSOPHY

Department of Medical and Clinical Psychology

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 Title Page, Dissertation Abstract, and Curriculum Vitae.

Arthur L. Kellermann, MD, MPH  
Dean, USUHS, School of Medicine

Attachments:  
As stated



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

## SCHOOL OF MEDICINE GRADUATE PROGRAMS

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



### FINAL EXAMINATION/PRIVATE DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY





Name of Student: Dawn Johnson

Date of Examination: July 23, 2018

Time: 9:00 AM

Place: Room B4004

#### DECISION OF EXAMINATION COMMITTEE MEMBERS:

	PASS	FAIL
 _____ Dr. Jeffrey Quinlan DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY Committee Chairperson	X	_____
 _____ Dr. David Krantz DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY Dissertation Advisor	✓	_____
 _____ Dr. Natasha Schvey DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY Committee Member	✓	_____
 _____ Dr. Tracey Koehlmoos DEPARTMENT OF PREVENTIVE MEDICINE & BIOSTATISTICS Committee Member	✓	_____



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

SCHOOL OF MEDICINE GRADUATE PROGRAMS

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



## APPROVAL OF THE DOCTORAL DISSERTATION IN THE DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

Title of Dissertation: "Relationships between Work Factors, Pregnancy Weight Gain, and Postpartum Weight Retention: the Comparative Effectiveness and Provider Induced Demand Collaboration (EPIC) Study"

Name of Candidate: Dawn Johnson  
Doctor of Philosophy Degree  
July 23, 2018

### DISSERTATION AND ABSTRACT APPROVED:

Dr. Jeffrey Quinlan  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Chairperson

DATE:

1/24/19

Dr. David Krantz  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Dissertation Advisor

1/24/19

Dr. Natasha Schvey  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Member

7/24/19

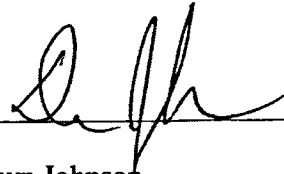
Dr. Tracey Koehlmoos  
DEPARTMENT OF PREVENTIVE MEDICINE & BIostatISTICS  
Committee Member

1/24/19



## **COPYRIGHT STATEMENT**

The author hereby certifies that the use of any copyrighted material in the dissertation manuscript entitled: RELATIONSHIPS BETWEEN WORK FACTORS, PREGNANCY WEIGHT GAIN, AND POSTPARTUM WEIGHT RETENTION: THE COMPARATIVE EFFECTIVENESS AND PROVIDER INDUCED DEMAND COLLABORATION (EPIC) STUDY is appropriately acknowledged and, beyond brief excerpts, is with the permission of the copyright owner.



---

Dawn Johnson

May 17, 2019

RELATIONSHIPS BETWEEN WORK FACTORS, PREGNANCY WEIGHT GAIN,  
AND POSTPARTUM WEIGHT RETENTION: THE COMPARATIVE  
EFFECTIVENESS AND PROVIDER INDUCED DEMAND COLLABORATION  
(EPIC) STUDY

by

DAWN JOHNSON

Dissertation submitted to the Faculty of the  
Medical and Clinical Psychology Graduate Program  
Uniformed Services University of the Health Sciences  
In partial fulfillment of the requirements for the degree of  
Doctor of Philosophy 2019

## ABSTRACT

Relationships between work factors, pregnancy weight gain, and postpartum weight retention: The Comparative Effectiveness and Provider Induced Demand Collaboration (EPIC) Study

Dawn Johnson, MA, 2017

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

**Background:** Pregnancy is a common condition among active duty military women of childbearing age treated by the Military Health System. Excessive gestational weight gain and postpartum weight retention can increase risk of adverse health outcomes for both women and their offspring, and can impact military readiness. Many factors affect the health of the mother and infant during pregnancy and the postpartum period, including demographic, biological, psychosocial, behavioral, and occupational variables. The purpose of the study is to examine the relationship of these factors to gestational weight gain and postpartum weight retention in an active duty population seeking care in the Military Health System between 2010-2014. **Study Aims:** In active duty military women, to determine the relationship of the following variables on pregnancy weight gain and postpartum weight retention: 1) demographic factors and variables affecting home demands; 2) having a mental health diagnosis (anxiety, depression, PTSD, or adjustment disorder); 3) service branch and work factors, including rank; 4) region of TRICARE service; and 5) delivery type (vaginal birth vs. cesarean delivery) and the development of preeclampsia. **Methods:** The study utilized 2010-2014 TRICARE claims

data from the Military Health System Data Repository (MDR) under the Comparative Effectiveness and Provider Induced Demand Collaboration (EPIC) Project. A total of 28,771 women met the inclusion and exclusion criteria of the overall study. The sample size for individuals with preeclampsia was 1,792 women. **Data Analytic Plan:** Data were analyzed using linear and logistic regression. Depending on the analysis, predictor variables examined included marital status, parity, pre-pregnancy body mass index (BMI), the presence of a mental health diagnosis, military service branch, military rank, region of TRICARE service, delivery type, and a diagnosis of preeclampsia. Dependent variables were body weight change during pregnancy and postpartum weight retention. Linear and logistic regressions were followed by group comparisons using Bonferroni correction. **Results:** Being single, enlisted, having preeclampsia, and having a cesarean delivery were associated with greater pregnancy weight gain and weight retention. Individuals who were in the Marine Corps or living in Alaska evidenced more weight gain during pregnancy. Parity and having an overweight BMI were not related to weight gain, but were associated with weight retention, and mental health was not related to weight gain or retention. **Discussion:** Similar to civilians, greater gestational weight gain and postpartum weight retention are found in active duty women who are single, of lower socioeconomic status (enlisted vs. officer), have a cesarean delivery, or have preeclampsia. In contrast to civilians, active duty military women who are obese gain and retain less weight compared to those who are normal weight. These study findings have implications for research, practice, and policy relating to women's health, pregnancy, and weight policies in the military.

**Dawn N. Johnson, MA**  
**Major, United States Air Force**

4301 Jones Bridge Road  
Bethesda, MD 20814  
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[dawn.johnson@usuhs.edu](mailto:dawn.johnson@usuhs.edu)

**EDUCATION**

**Uniformed Services University of the Health Sciences (USU), Bethesda, MD** **2013 - Present**

***Ph.D. in Clinical Psychology***

Anticipated graduation: May, 2019

Doctoral Dissertation Topic: *Relationships between work factors, pregnancy weight gain, and postpartum weight retention: The comparative effectiveness and provider induced demand collaboration (EPIC) study.*

Under the direction of David Krantz, Ph.D.

**Denver Seminary, Denver, CO**

**2005 - 2007**

***M.A. in Counseling Licensure***

Institutional Honors: *Graduated with Honors*

**Wartburg College, Waverly, IA**

**2000 - 2004**

***B.A. in Biology***

Institutional Honors: *Magna Cum Laude*

**CLINICAL EXPERIENCE**

**Wright-Patterson Medical Center**

**Jul 2018 – Current**

- Provided intakes, individual and group therapy, and assessment for individuals with mental health concerns that were impacting their physical well-being and functioning.

**Saint Elizabeths Hospital**

**Sep 2017 – May 2018**

- Provided evidence based individual and group therapy, competency restoration, assessment, and consultation in an inpatient psychiatric hospital with pre-trial, post-trial, and civil individuals with serious mental health, personality disorders, and behavioral concerns as part of a multidisciplinary team.

**Hunter Holmes McGuire VAMC**

**Jul 2015 – Apr 2017**

***Polytrauma Transitional Rehabilitation Program***

***50% of total time***

- Administered, scored, and wrote integrated neuropsychological reports using objective and personality assessments and a clinical interview to inform case conceptualization and feedback recommendations for inpatient and outpatient individuals with polytrauma injuries.

***PTSD Clinic***

***50% of total time***

- Led outpatient Cognitive Processing Therapy groups for individuals with PTSD and conducted intakes, individual and group therapy, and assessments for diagnostic clarification and treatment planning. substance use concerns.

**Malcolm Grow Medical Center**

**May 2014 – May 2015**

- Conducted intakes and individual and group therapy for individuals with anxiety, PTSD, depression, grief and loss, adjustment disorder, occupational difficulties, and co-morbid mental health and physiological health issues (e.g., chronic pain & depression, traumatic brain injury & PTSD).

## **MILITARY PSYCHOLOGY RELEVANT TRAINING EXPERIENCE**

### **San Antonio Military Psychology Training Experience**

**Jun 2016**

- Learned about and put into practice the assess/select, train, and sustain model of the Military Training Consult Service (MTCS) mission. Identified the role of psychologists and psychology technicians in the Evasion and Conduct After Capture (ECAC) course.

### **Operation Bushmaster**

**Apr 2014 – May 2014**

*Ft Indiantown Gap, Pennsylvania*

- Served as a Faulty Observer to evaluate Combat Stress Control Officers as they interviewed, assessed, and triaged simulated patients experiencing psychological crises. Mentored students on their skill management and their role as a consultant to the commander on issues involving unit-wide prevention and intervention of psychological crises.

## **RESEARCH EXPERIENCE**

### **Comparative Effectiveness and Provider Induced Demand Collaboration (EPIC) Project**

#### **EPIC: Women's Health Core**

**Feb 2017 – Present**

- Utilized the Military Healthcare Data Repository to examine several variables associated with pregnancy weight gain and postpartum weight retention in active duty members.

### **Prevention of Obesity in Military Communities (POMC)**

#### **POMC: Mother-Baby Project**

**Aug 2013 – Feb 2017**

- Added psychological measures to and created a data dictionary to collect and analyze data for a weight management intervention among pregnant women to reduce overall weight gain during pregnancy and to promote reduced risk for obesity in their babies.

## **PUBLICATIONS & PRESENTATIONS**

Spieker, E. A., Sbrocco, T., Theim, K. R., Maurer, D., **Johnson, D.**, Bryant, E., Bakalar, J. L., Schvey, N. A., Ressler, R., Seehusen, D., Klein, D. A., Stice, E., Yanovski, J. A., Chan, L., Gentry, S., Ellsworth, C., Hill, J. W., Tanofsky-Kraff, M., & Stephens, M. B. (2015). Preventing obesity in the military community (POMC): The development of a clinical trials research network. *International Journal of Environmental Research and Public Health*, 12, 1174-1195.

Stephens, M., Sbrocco, T., Cohen, L. A., Theim, K. R., Seehusen, D., Bryant, E., Spieker, E., Bakalar, J. L., Radin, R. M., Conforte, A., **Johnson, D.**, McCreight, S. J., Bradshaw, M., Kayser, D., Stice, E., Yanovski, J. A., & Tanofsky-Kraff, M. (2014, October). *Preventing Obesity in Military Communities (POMC): A Family Practice-Based Approach.* Poster presentation at the American Academy of Family Physicians Assembly, Washington, DC.

## **MILITARY PROFESSIONAL POSITIONS**

### **Special Agent, Contingency Planner, AFOSI HQ/WF**

**Apr 2012 – Aug 2013**

- Identified and sourced individuals for deployments and Joint Chiefs of Staff exercises. Prepared a continuity of operations plan for the Headquarters of the Air Force Office of Special Investigations.

### **Special Agent, Counterintelligence Flight Chief, 11 FIS**

**Jun 2008 – Mar 2012**

- Identified, exploited and neutralized criminal, terrorist and intelligence threats to the Air Force, Department of Defense and U.S. Government. Directed all counterintelligence operations and investigations servicing 4 installations and 79 counties. Supervised three agents. Prepared and reviewed reports of investigation and presented findings to commanders and Judge Advocate Officers.



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April 12, 2019

**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 Doctor of Philosophy degree effective upon your approval:

**Viktor Edward Koltko**

**DOCTOR OF PHILOSOPHY**

Department of Medical and Clinical Psychology

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 Title Page, Dissertation Abstract, and Curriculum Vitae.

Arthur L. Kellermann, MD, MPH  
Dean, USUHS, School of Medicine

Attachments:  
As stated



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

## SCHOOL OF MEDICINE GRADUATE PROGRAMS

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



### FINAL EXAMINATION/PRIVATE DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

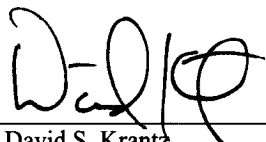
Name of Student: Viktor Koltko

Date of Examination: July 17, 2018

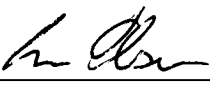
Time: 9:00 AM

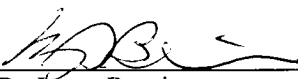
Place: Room A2053

#### DECISION OF EXAMINATION COMMITTEE MEMBERS:

	PASS	FAIL
 _____ Dr. David S. Krantz DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY Committee Chairperson	<input checked="" type="checkbox"/>	<input type="checkbox"/>

 _____ Dr. Marjan G. Holloway DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY Dissertation Advisor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 _____ Dr. Cara H. Olsen DEPARTMENT OF PREVENTIME MEDICINE & BIostatISTICS Committee Member	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 _____ Dr. Layne Bennion DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY Committee Member	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 _____ Dr. Arlene Saitzyk MARINE CORPS EMBASSY SECURITY GROUP Committee Member	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**  
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Graduate Education Office (A 1045), 4301 Jones Bridge Road, Bethesda, MD 20814

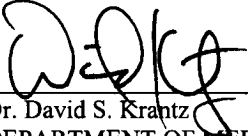


APPROVAL OF THE DOCTORAL DISSERTATION IN THE DEPARTMENT OF  
MEDICAL AND CLINICAL PSYCHOLOGY

Title of Dissertation: "Military Help-Seeking Patterns Preceding Suicide-Related Psychiatric Hospitalization:  
A Hierarchical Cluster Analysis"

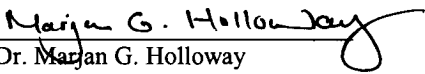
Name of Candidate: Viktor Koltko  
Doctor of Philosophy Degree  
July 17, 2018

DISSERTATION AND ABSTRACT APPROVED:

  
Dr. David S. Krantz  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Chairperson

DATE:

27 Nov 2018

  
Dr. Marjan G. Holloway  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Dissertation Advisor

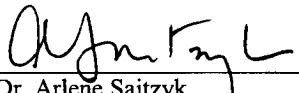
27 Nov 2018

  
Dr. Cara H. Olsen  
DEPARTMENT OF PREVENTIVE MEDICINE & BIostatISTICS  
Committee Member

27 Nov 2018

  
Dr. Layne Bennion  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Member

27 Nov 2018

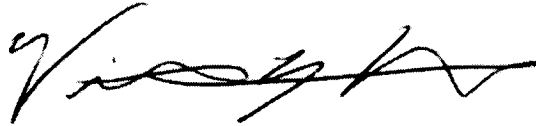
  
Dr. Arlene Saitzyk  
MARINE CORPS EMBASSY SECURITY GROUP  
Committee Member

27 Nov 2018

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

**MILITARY HELP-SEEKING PATTERNS PRECEDING SUICIDE-RELATED  
PSYCHIATRIC HOSPITALIZATION: A HIERARCHICAL CLUSTER ANALYSIS**

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A handwritten signature in black ink, appearing to read 'Viktor Koltko', with a stylized, flowing script.

Viktor Koltko  
MEDICAL AND CLINICAL PSYCHOLOGY  
GRADUATE EDUCATION OFFICE  
Uniformed Services University  
8 FEB 2019

MILITARY HELP-SEEKING PATTERNS PRECEDING SUICIDE-RELATED  
PSYCHIATRIC HOSPITALIZATION: A HIERARCHICAL CLUSTER ANALYSIS

by

Viktor Koltko

Dissertation submitted to the Faculty of the  
Clinical Psychology Graduate Program  
Uniformed Services University of the Health Sciences  
In partial fulfillment of the requirements for the degree of  
Doctor of Philosophy 2019

## ABSTRACT

Military Help-Seeking Patterns Preceding Suicide-Related Psychiatric Hospitalization: A Hierarchical Cluster Analysis

Viktor Koltko, B.S., 2018

Dissertation directed by: Dr. Marjan Holloway, Associate Professor, Department of Medical & Clinical Psychology

**Background:** Service members psychiatrically hospitalized following a suicide-related event are at particularly high risk of death by suicide. However, their pre-hospitalization help-seeking patterns are not currently known and may be best understood in terms of empirically derived subgroups. Factors associated with help-seeking may include demographics, perceived stigma, structural barriers to care, and social support.

**Purpose:** Objectives of this dissertation study were as follows: (1) to describe the self-reported help-seeking patterns, health services utilization, social support, and perceived barriers to care of service members admitted for inpatient psychiatric care following a suicide-related event; (2) to use hierarchical cluster analysis to identify subgroups based on patterns of help-resource utilization; (3) to assess the internal stability and external validity of the clusters; and (4) to evaluate correlates associated with each cluster.

**Method:** This study involved secondary analysis of baseline data from the Post Admission Cognitive Therapy (PACT) for the Inpatient Treatment of Military Personnel and Eligible Adult Dependents with Suicidal Behaviors multi-site, single-blind

randomized controlled trial. Participants included were service members psychiatrically hospitalized following a suicide-related event. Participants completed self-report measures of help-seeking, social support, perceived stigma, and barriers to care.

**Results:** A hierarchical cluster analysis utilizing Ward's method was performed to group participants according to help-seeking patterns reported on the Actual Help-Seeking Questionnaire (AHSQ). Stability of the model was validated using split-half analysis. A three-cluster solution was identified, with clusters characterized as (1) Non-Discriminant Help-Seekers, (2) Discriminant Help-Seekers, and (3) Non Help-Seekers. The model was stable and demonstrated external validity, though conclusions were limited by the characteristics of the available validation source. Cluster member characteristics related to stigma, perceived barriers to care, sex, rank, social support, and symptom severity were examined through chi-squared analyses and ANOVAs. There were no statistically significant differences in these characteristics between clusters.

**Discussion:** Most participants sought out help from multiple sources, including behavioral health providers. However, 10% sought no help. Usage patterns suggest that service members at high risk for suicide may not prioritize confidentiality when seeking help. Suicide prevention recommendations for clinical, research, and policy are provided.

*Keywords:* help seeking, suicide, military

# **Viktor Koltko, B.S.**

[viktor.koltko@gmail.com](mailto:viktor.koltko@gmail.com)

## **EDUCATION**

PhD Clinical Psychology, Uniformed Services University of the Health Sciences (USUHS)

Expected graduation date - August 2019

BS Psychology, English Minor, Brigham Young University, 2013

## **GRADUATE CLINICAL EXPERIENCE**

**Clinical Psychology Intern**

**Naval Medical Center Portsmouth**

August 2018 – August 2019

**Clinical Psychology Externships:**

**Behavior Therapy Center of Greater Washington**

August 2017 – June 2018

**Marine Corps Embassy Security Group**

August 2016 – August 2017

**Malcolm Grow Medical Clinics, Mental Health Clinic**

September 2016 – May 2017

**District of Columbia Superior Court, Child Guidance Clinic**

May 2015 – July 2016

## **MILITARY EXPERIENCE**

**Lieutenant, Medical Services Corps, June 2014 – Present**

United States Navy

## **RESEARCH EXPERIENCE**

**Research Assistantships:**

**Laboratory for the Treatment of Suicide-Related Ideation and Behavior**

**August 2014 – Present**

Mentor: Marjan Holloway, PhD, Associate Professor, USUHS

**Brigham Young University**

**September 2012 – June 2014**

Mentor: Tyler Pedersen, PhD, Assistant Director, BYU Counseling and Career Center

**Brigham Young University**

**August 2012 – August 2013**

Mentor: Brent Slife, PhD, Professor of Clinical Psychology

**Cornell University, Batt Labs**

**May 2004 – December 2007**

Mentor: Scott Stelick, M.Eng., Nanofabrication Engineer

## **PUBLICATIONS**

1. Ghahramanlou-Holloway, M., Baer, M. M., Neely, L. L., **Koltko, V.**, & Nielsen, M. K. (2017). Suicide Prevention in the United States Military. In S. Bowles & P. T. Bartone (Eds.), *Handbook of Military Psychology: Clinical and Organizational Practice* (pp. 152-186). Springer.
2. **Koltko, V.**, & Ghahramanlou-Holloway, M. (2017). Medical Decision Making for Suicidal Patients in Military Integrated Primary Care Settings. *Military Behavioral Health*, 5(1), 35-42. doi:10.1080/21635781.2016.1213211
3. Ghahramanlou-Holloway, M., Neely, L., Tucker, J., Caffery, K., Colborn, V., & **Koltko, V.** (2015). Inpatient cognitive behavior therapy approaches for suicide prevention. *Current Treatment Options in Psychiatry*, 1-12.
4. **Koltko, V.** (2010, Fall). The long-term effects of short-term psychotherapy on depression: A review of the literature. *Intuition: BYU Undergraduate Journal of Psychology*, 6, 30–36.

## **SELECTED PRESENTATIONS**

1. Ponce, J., Lee-Tauler, S.Y., **Koltko, V.**, Bond, A., Fox, A., Perera, K., LaCroix, J., Goldston, D., Weaver, J., Soumoff, A., & Ghahramanlou-Holloway, M. (2018, April). *Patterns of Help-Seeking Behavior among Psychiatrically Hospitalized Military Personnel with Adulthood Sexual Trauma*. Paper presented at the Annual Meeting of the American Association of Suicidology, Washington, DC.
2. Lopreiato, J., Bennion, L.D., Clark, L., Cloyd, G., **Koltko, V.**, Montgomery, M., Pak, K., & Witter, J. (2017, June). *Longitudinal Cases Foster Therapeutic Relationships between SPs and Doctoral Students in Clinical Psychology*. Workshop Presentation at the annual conference of the Association of Standardized Patient Educators, Alexandria, VA.
3. **Koltko, V.**, Ghahramanlou-Holloway, M., & LaCroix, J. (2017, April). *Attrition from Psychotherapy Randomized Controlled Trials Targeting Suicide Prevention and Lessons Learned*. Paper presented at the Annual Meeting of the American Association of Suicidology, Phoenix, AZ.
4. Ghahramanlou-Holloway, M., Shirley, S., LaCroix, J., Barbour, A., Browne, J., Colborn, V., **Koltko, V.**, Perera, K., & Neely, L. (2016, August). *Development and refinement of an evidence-based suicide prevention workbook for the chaplaincy community serving the unique needs of Special Operations Forces: Preliminary progress*. Poster presented at the Annual Meeting of the Military Health System Research Symposium, Orlando, FL.
5. **Koltko, V.**, Pedersen, T.R., Janis, R.B., Ricks, M., & Nielsen, S.L. (2014, June). *Single-session therapy 'drop-outs': Early success or failed treatment?* Poster presented at the annual conference of the Society for Psychotherapy Research, Copenhagen, Denmark.



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April 12, 2019

**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 Doctor of Philosophy degree effective upon your approval:

**Christina M. Marion**

DOCTOR OF PHILOSOPHY

Neuroscience Graduate 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 Title Page, Dissertation Abstract, and Curriculum Vitae.

Arthur L. Kellermann, MD, MPH  
Dean, USUHS, School of Medicine

Attachments:  
As stated





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FINAL EXAMINATION/PRIVATE DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY  
IN THE NEUROSCIENCE GRADUATE PROGRAM

Name of Student: Christina Marion

Date of Examination: March 6, 2019

Time: 2:00 PM

Place: Room A2013

DECISION OF EXAMINATION COMMITTEE MEMBERS:

PASS

FAIL

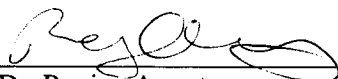


Dr. Joseph McCabe

DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS

Committee Chairperson

✓

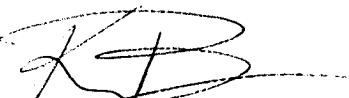


Dr. Regina Armstrong

DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS

Dissertation Advisor

✓



Dr. Kimberly Byrnes

DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS

Committee Member

✓



Dr. Jason Lees

DEPARTMENT OF MEDICINE

Committee Member

✓



Dr. Andrew Snow

DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS

Committee Member

✓



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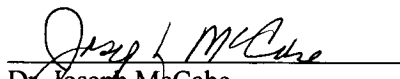
APPROVAL OF THE DOCTORAL DISSERTATION IN THE NEUROSCIENCE  
GRADUATE PROGRAM

Title of Dissertation: "A Role of Myelin in Traumatic Brain Injury Deficits and Recovery"

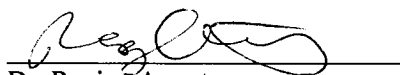
Name of Candidate: Christina Marion  
Doctor of Philosophy  
March 6, 2019

DISSERTATION AND ABSTRACT APPROVED:

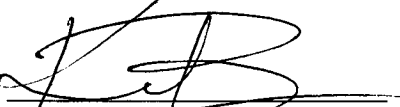
DATE:

  
Dr. Joseph McCabe  
DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS  
Committee Chairperson

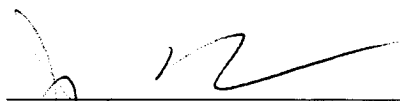
3/22/19

  
Dr. Regina Armstrong  
DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS  
Dissertation Advisor

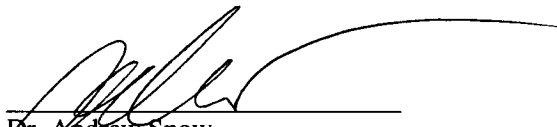
3/6/19

  
Dr. Kimberly Byrnes  
DEPARTMENT OF ANATOMY, PHYSIOLOGY & GENETICS  
Committee Member

3/6/19

  
Dr. Jason Lees  
DEPARTMENT OF MEDICINE  
Committee Member

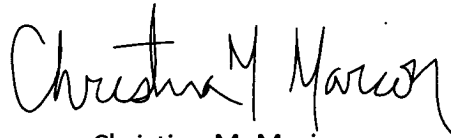
3/6/19

  
Dr. Andrew Snow  
DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS  
Committee Member

3/6/19

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A handwritten signature in black ink, reading "Christina M. Marion". The signature is fluid and cursive, with the first name "Christina" and last name "Marion" clearly legible.

Christina M. Marion

Neuroscience Ph.D Program

Uniformed Services University

March 22<sup>nd</sup>, 2019

## **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.

A Role for Myelin in Traumatic Brain Injury Deficits and Recovery

by

Christina M. Marion

Dissertation submitted to the faculty of the

Neuroscience Graduate Program

Uniformed Services University of the Health Sciences

In partial fulfillment of the requirements for the degree of

Doctor of Philosophy 2019

## ABSTRACT

### A Role for Myelin in Traumatic Brain Injury Deficits and Recovery

Christina M. Marion, Ph.D, 2019

Thesis directed by: Dr. Regina C. Armstrong

Impact-acceleration forces to the head can cause traumatic brain injury (TBI). In many cases, including mild injuries, TBI produces traumatic axonal injury (TAI) within long axons of white matter tracts. In addition to TAI, we have shown that experimental TBI causes distinct myelin pathologies in the corpus callosum (CC), a large white matter tract commonly affected in human TBI cases. These pathologies include demyelination, defined as myelin loss along intact axons. Little is known about how these myelin pathologies arise or how they may affect patient deficits and eventual recovery. We first explored to what extent demyelination may persist in an experimental mouse model of TBI where axonal pathology is attenuated. SARM1 activation is essential for execution of the conserved axon death pathway through which axon damage progresses to full degeneration. We assessed axon and myelin pathology in mice with genetic deletion of *Sarm1* (*Sarm1*<sup>-/-</sup>) using ultrahigh resolution structural analysis in the CC at three days after TBI. *Sarm1*<sup>-/-</sup> mice had reduced axon degeneration as compared to littermate mice with the wild type gene. Furthermore, TBI-induced demyelination did not occur in *Sarm1*<sup>-/-</sup> mice, suggesting a relationship between axon degeneration and demyelination. We next assessed disrupted axon-myelin interactions and how they may contribute to slowed processing speed caused by TBI. We identified, ultrastructurally and with molecular markers, TBI-induced abnormalities at the paranode where myelin attaches to

the axon. Action potential conduction is very sensitive to paranode abnormalities and demyelination, and indeed compound action potential (CAP) velocity was slowed specifically along myelinated axons at three days after TBI. Interestingly, CAP partially recovered by two weeks, which can occur with remyelination. To explore myelin dynamics after TBI, we fluorescently labeled oligodendrocyte progenitors in *NG2CreER;mTmG* mice. TBI increased new membrane synthesis along axons and extending to functionally relevant paranodes, indicative of remyelination. However, moving into later time points after injury, fewer axons contributed to the CAP at six weeks, suggesting axon loss. By eight weeks the CC exhibited significant atrophy in TBI mice. We also assessed *Sarm1*<sup>-/-</sup> mice to determine if the axonal preservation observed at three days after TBI also extended to protection from CC atrophy at eight weeks. Indeed, CC atrophy was attenuated in *Sarm1*<sup>-/-</sup> mice, as compared to mice with the gene. These studies identify a progression of axon-myelin pathology and related conduction deficits. Furthermore, we have identified potential therapeutic windows after TBI. Early SARM1 inactivation may reduce axon degeneration, demyelination, and late white matter atrophy caused by TBI. Additionally, we have identified an intervening recovery period corresponding to remyelination that is also an excellent target for therapeutic intervention. Together these studies underscore the importance of axon-myelin interactions throughout the time course following TBI.

## **Profile**

Neuroscientist whose research focuses on myelin damage and repair in relation to axonal disruption after traumatic brain injury. Passionate about teaching and improving accessibility of scientific research to the public.

**christina.marion@usuhs.edu**  
**christina.m.marion@gmail.com**

## **Education**

**2012 - 2019:** Ph.D Candidate, Neuroscience; Uniformed Services University of the Health Sciences, Bethesda, MD 20814  
**2008 – 2012:** B.S., Biology, Neuroscience Concentration, English Minor; University of Richmond, Richmond, VA, 23173

## **Publications – Research Articles**

**Marion CM, McDaniel DP, Armstrong RC (2019)** Sarm1 Deletion Reduces Axon Degeneration, Demyelination, and White Matter Atrophy After Experimental Traumatic Brain Injury. Submitted to J. Experimental Neurology, Feb 2019.

**Marion CM, Radomski KL, Cramer NP, Galdzicki Z, Armstrong RC (2018)** Experimental Traumatic Brain Injury Identifies Distinct Early and Late Phase Axonal Conduction Deficits of White Matter Pathophysiology, and Reveals Intervening Recovery. J. Neuroscience. DOI: 10.1523/JNEUROSCI.0819-18.2018. Selected as featured article for issue.

Yu F, Shukla DK, Armstrong RC, **Marion CM**, Radomski KL, Selwyn RG, Dardzinski BJ (2016) Repetitive Model of Mild Traumatic Brain Injury Produces Cortical Abnormalities Detectable by Magnetic Resonance Diffusion Imaging (DTI/DKI), Histopathology, and Behavior. J Neurotrauma. DOI: 10.1089/neu.2016.4569

Mierzwa AJ, **Marion CM**, Sullivan GM, McDaniel DP, Armstrong RC (2015) Components of Myelin Damage and Repair in the Progression of White Matter Pathology after Mild Traumatic Brain Injury. Journal of Neuropathology and Experimental Neurology 74:218-232. DOI: 10.1097/nen.0000000000000165

## **Publications – Review Articles**

Armstrong RC, Mierzwa AJ, **Marion CM**, Sullivan GM (2015) White Matter Involvement after TBI: Clues to Axon and Myelin Repair Capacity. Experimental Neurology. DOI: 10.1016/j.expneurol.2015.02.011

## **Selected Presentations**

**Marion CM, McDaniel DP, Armstrong RC.** *Poster and Data Blitz, National Capital Area TBI Research Symposium, Bethesda, MD, 2019.* Sarm1 Deletion Reduces Axon Degeneration, Demyelination, and White Matter Atrophy After Experimental Traumatic Brain Injury.

**Marion CM, Radomski KL, Cramer NP, Galdzicki Z, Armstrong RC.** *Poster, Society for Neuroscience Annual Meeting, San Diego, CA, 2018.* Experimental traumatic brain injury identifies distinct early and late phase axonal conduction deficits of white matter pathophysiology, and reveals intervening recovery.

**Marion CM, Radomski KL, Cramer NP, Galdzicki Z, Armstrong RC.** *Oral Presentation, National Capital Area TBI Research Symposium, Bethesda, MD, 2018.* Experimental traumatic brain injury identifies distinct early and late phase axonal conduction deficits of white matter pathophysiology, and reveals intervening recovery. Oral presentation selected from conference abstract submission.

**Marion CM, Radomski KL, Armstrong, RC.** *Poster, Society for Neuroscience Annual Meeting, Washington, DC, 2017.* Attenuation of traumatic axonal injury relative to myelin pathology after mild traumatic brain injury in mice lacking Sarm1.

**Marion CM, Radomski KL, Armstrong, RC.** *Poster, USUHS Graduate School Colloquium, Bethesda, MD, 2017.* Attenuation of traumatic axonal injury relative to myelin pathology after mild traumatic brain injury in mice lacking Sarm1.

**Marion CM, Radomski KL, Armstrong, RC.** *Poster and Data Blitz, National Capital Area TBI Research Symposium, Bethesda, MD, 2017.* Attenuation of traumatic axonal injury relative to myelin pathology after mild traumatic brain injury in mice lacking Sarm1.

**Marion CM, Cramer NP, Radomski KL, Yu F, Galdzicki Z, Armstrong RC.** *Poster, Glia in Health in Disease, Cold Spring Harbor Laboratory, NY, 2016.* Myelin plasticity supports recovery of nerve conduction velocity after experimental TBI.

**Marion CM.** *Oral Presentation, USUHS Graduate School Colloquium, Bethesda, MD, 2016.* Myelin plasticity supports recovery of nerve conduction velocity after experimental TBI.

**Marion CM,** Cramer NP, Radomski KL, Yu F, Galdzicki Z, Armstrong RC. *Poster, National Capital Area TBI Research Symposium, Bethesda, MD, 2016.* Myelin plasticity supports recovery of nerve conduction velocity after experimental TBI.

### **Teaching Experience – Medical School Teaching Assistant**

Topic Module: Foundation in Medicine; Lecture: Biomolecules Flipped Classroom. Led by Dr. Saibal Dey, August 21<sup>st</sup>, 2018

Topic Module: Neuroanatomy; Weekly review lectures for graduate students. Module led by Dr. David Mears, Spring Semester 2015

### **Teaching Experience – Graduate School Teaching Assistant**

USU graduate Traumatic Brain Injury Neurobiology course (NSO903); Mini-Lecture Title: Repeated TBI, weekly discussion moderator, visiting speaker coordinator, final paper evaluator. Course led by Dr. Fabio Leonessa and Dr. Kimberly Byrnes, Winter Semester 2015-16

### **Additional Honors**

- |      |  |
|------|--|
| 2012 | Undergraduate Research Grant (Spring 2012), University of Richmond, Richmond, VA   |
| 2014 | Invited Guest Speaker (May 19) and alumni mentor, Toms River Authentic Science Research Symposium, Toms River, NJ  |
| 2016 | 2 <sup>nd</sup> Place Poster Presentation (April 20), National Capital Area TBI Research Symposium, Bethesda, MD   |
| 2016 | Oral Presentation Winner (May 17), USUHS Graduate School Colloquium, Bethesda, MD  |
| 2017 | 1 <sup>st</sup> Place Poster Presentation (March 9), National Capital Area TBI Research Symposium, Bethesda, MD  |
| 2017 | Poster Finalist (May 16), USUHS Graduate School Colloquium, Bethesda, MD   |
| 2018 | Invited Speaker, <i>A role for myelin in traumatic brain injury deficits and recovery</i> (May 22), Children's National Hospital and Neuroscience Research Center, Washington DC |
| 2018 | Future Leader in Traumatic Brain Injury Research Award (Oct 16), Center for Neuroscience and Regenerative Medicine (CNRM), Bethesda, MD  |
| 2019 | 2 <sup>nd</sup> Place Poster Presentation (March 5), National Capital Area TBI Research Symposium, Bethesda, MD  |

### **Contributions to Academic Community**

- |      |   |
|------|---|
| 2015 | USUHS Neuroscience Student Representative (Oct 17-20), co-organized and manned USU table at Graduate School Fair, Society for Neuroscience Meeting, Chicago, IL   |
| 2016 | USUHS Open House Volunteer (Feb 28-29), hosted a potential student and gave a presentation on brain clearing technology at USUHS to all prospective neuroscience students, USUHS Open House, Bethesda, MD |
| 2016 | Coordinator and Moderator (March 8), Preparing for a Post-Doc Panel Discussion, USUHS Neuroscience Interest Group, Bethesda, MD   |
| 2016 | USUHS Student Representative (July 14), NIH Graduate School Fair  |
| 2017 | Graduate Student Representative (April 13), gave presentation on brain clearing technologies at USUHS to visiting congressman Jamie Raskin, USUHS, Bethesda, MD.  |
| 2017 | Lead Graduate Student Representative (April 18), developed new procedures for student input and for standardized evaluation for USUHS Outstanding Biomedical Educator Award Selection Committee           |
| 2018 | USUHS Neuroscience Student Representative (Nov 4-5), Graduate School Fair, Society for Neuroscience Meeting, San Diego, CA  |





**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**  
4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712  
usuhs.edu



April 12, 2019

**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 Doctor of Philosophy degree effective upon your approval:

**Lisa Marie Shank**

**DOCTOR OF PHILOSOPHY**

Department of Medical and Clinical Psychology

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 Title Page, Dissertation Abstract, and Curriculum Vitae.

Arthur L. Kellermann, MD, MPH  
Dean, USUHS, School of Medicine

Attachments:  
As stated



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

SCHOOL OF MEDICINE GRADUATE PROGRAMS

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



## FINAL EXAMINATION/PRIVATE DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

Name of Student: Lisa Shank

Date of Examination: March 18, 2019

Time: 12:00 PM

Place: Room A2015

### DECISION OF EXAMINATION COMMITTEE MEMBERS:

PASS

FAIL



✓

—

Dr. Tracy Sbrocco

DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY

Committee Chairperson



✓

—

Dr. Marian Tanofsky-Kraff

DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY

Dissertation Advisor



✓

—

Dr. David Krantz

DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY

Committee Member



✓

—

Dr. Jack Yanovski

NATIONAL INSTITUTE OF CHILD HEALTH & HUMAN DEVELOPMENT, NIH

Committee Member



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

SCHOOL OF MEDICINE GRADUATE PROGRAMS

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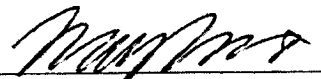
## APPROVAL OF THE DOCTORAL DISSERTATION IN THE DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

Title of Dissertation: "Stress, Loss of Control Eating, and Physical Health in Youth"


Name of Candidate: Lisa Shank  
Doctor of Philosophy Degree  
March 18, 2019

### DISSERTATION AND ABSTRACT APPROVED:

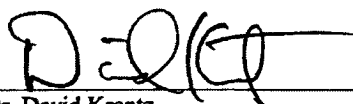
DATE:

  
Dr. Tracy Strocchio  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Chairperson


3-18-19

  
Dr. Marian Tanofsky-Kraff  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Dissertation Advisor

4/11/19

  
Dr. David Krantz  
DEPARTMENT OF MEDICAL & CLINICAL PSYCHOLOGY  
Committee Member

3-18-19

  
Dr. Jack Yanovski  
NATIONAL INSTITUTE OF CHILD HEALTH & HUMAN DEVELOPMENT, NIH  
Committee Member

3/18/19

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

“The Relationships Among Stress, Loss of Control Eating, and Physical Health in Youth”

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

A handwritten signature in black ink, reading "Lisa M. Shank". The signature is fluid and cursive, with the first name "Lisa" and last name "Shank" clearly distinguishable.

Lisa M. Shank, M.S., M.P.H.  
Medical and Clinical Psychology Department  
Uniformed Services University  
Date: 03/18/2019

**The Relationships Among Stress, Loss of Control Eating, and Physical Health in Youth**

by

**Lisa M. Shank**

**Dissertation submitted to the Faculty of the  
Medical Psychology Graduate Program  
Uniformed Services University of the Health Sciences  
In partial fulfillment of the requirements for the degree of  
Doctor of Philosophy 2019**

## **ABSTRACT**

**Title of Dissertation: The Relationships Among Stress, Loss of Control Eating, and Physical Health in Youth**

**Lisa M. Shank, M.S., M.P.H., 2019**

**Thesis directed by: Marian Tanofsky-Kraff, Ph.D., Professor, Department of Medical and Clinical Psychology**

The subjective experience of loss of control (LOC) over eating, regardless of the amount of food consumed, is commonly reported by youth, particularly among those prone to excess weight. Youth with LOC eating are at increased risk for weight and fat gain. Preliminary research suggests that youth with LOC eating are at increased risk of adverse metabolic outcomes, even after adjusting for adiposity. Affect regulation theories, such as interpersonal theory, propose that LOC eating occurs in response to psychological stressors; however, no study has examined the relationship between temporally sensitive reports of stress, negative affect, and food intake in youth with LOC eating. Three studies were conducted to further our understanding of the relationships between stress, LOC eating, and physical health. The first study examined whether youth with LOC eating have elevated high-sensitivity C-reactive protein (hsCRP), a marker of chronic inflammation, compared to youth without LOC eating. Chronic inflammation has been implicated in the development of deleterious health outcomes, including metabolic syndrome and cardiovascular disease. In a sample of 194 youth, youth with LOC eating had significantly

greater hsCRP than youth without LOC eating ( $p = .02$ ). This finding suggests that youth with LOC eating may be an important subgroup at risk for adverse inflammation-related outcomes. The second study was a secondary analysis of a trial that enrolled adolescent girls with excess weight and LOC eating, and examined whether LOC remission (vs. persistence) at end-of-treatment was associated with changes in metabolic syndrome components at 6-month follow-up. In a sample of 103 adolescent girls, youth with LOC eating remission at end-of-treatment had lower glucose ( $p = .02$ ), higher high-density lipoprotein cholesterol ( $p = .01$ ), and lower triglycerides ( $p = .02$ ) at follow-up compared to youth with persistent LOC eating. No other component differed by LOC eating status ( $ps > .05$ ). These findings lend support to a causal relationship between LOC eating and cardiometabolic health, and suggest that reducing or eliminating LOC eating in adolescent girls may have a beneficial impact on some components of the metabolic syndrome. The third study examined the role of interpersonal stress in the relationships between LOC eating, mood, and eating behavior by examining the interpersonal model of loss of control eating in the laboratory. In a sample of 117 adolescent girls with excess weight and LOC eating, only pre-meal state anxiety was a significant mediator for recent social stress and palatable food intake ( $p < .05$ ). These findings suggest that interventions that focus on improving both social functioning and anxiety may prove most effective at preventing and/or ameliorating disordered eating in these adolescents. Taken together, the findings from these three studies provided a foundation for the development of a novel conceptual model that proposes integrative relationships among acute stress, LOC eating, dietary intake, mood symptoms, fat mass, chronic inflammation, and adverse physical health outcomes such as metabolic syndrome. Future research should focus on elucidating the prospective relationships among these variables, with a particular focus on the potential role of stress reactivity in these relationships. The

integration of psychological stress, disordered eating, and physical health may elucidate the mechanisms through which adverse health outcomes occur, potentially providing a pathway for novel pediatric prevention and intervention programs.



## **Lisa M. Shank, MS, MPH**

Telephone: 610-350-6338; Email: lisa.shank.ctr@usuhs.edu

### **EDUCATION**

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

Doctor of Philosophy in Medical Psychology, expected 2019

Master of Public Health, 2017

Master of Science in Medical and Clinical Psychology, 2015

#### **Drexel University, Philadelphia, PA**

Master of Science in Psychology, 2013

#### **Massachusetts Institute of Technology, Cambridge, MA**

Bachelor of Science in Management Science, 2008

### **SELECTED HONORS AND AWARDS**

- |           |   |
|-----------|---|
| 2018      | Early Career Special Interest Group Best Abstract Award, International Conference on Eating Disorders |
| 2018      | Summer Research Mentor Award, The National Institutes of Health                                       |
| 2016-2017 | The Henry M. Jackson Foundation for the Advancement of Military Medicine Fellowship                   |
| 2016      | The George A. Bray Master's Thesis Award, The Obesity Society   |
| 2015      | Academy for Eating Disorders (AED) Student Early Career Investigator Travel Scholarship; Boston, MA   |

### **GRANT FUNDING**

National Institute of Diabetes and Digestive and Kidney Diseases, NIH, 1 F31 DK112641-01  
Ruth L. Kirschstein Predoctoral Individual National Research Service Award (NRSA),  
Inflammatory Stress Response and Loss of Control Eating in Youth, 08/01/2017-07/31/2019.  
*Principal Investigator: L. M. Shank*

### **SELECTED PEER-REVIEWED PUBLICATIONS (OF 22)**

*\* Represents co-first authors*

1. **Shank, L. M.**, Schvey, N. A., Ekundayo, K., Schreiber-Gregory, D., Bates, D., Maurer, D., Spieker, E., Stephens, M., Tanofsky-Kraff, M., & Sbrocco, T. (2019). The relationship between weight stigma, weight bias internalization, and physical health in military personnel with or at high-risk of overweight/obesity. *Body Image*, 28, 25-33.
2. **Shank, L. M.**, Tanofsky-Kraff, M., Radin, R. M., Shomaker, L. B., Wilfley, D. E., Young, J. F., Brady, S., Olsen, C., Reynolds, J. C., & Yanovski, J. A. (2018). Remission of loss of control eating and changes in components of the metabolic syndrome. *International Journal of Eating Disorders*, 51(6), 565-573.

3. **Shank, L. M.,\*** Stojek, M.,\* Bongiorno, D. M., Vannucci, A., Nelson, E. E., Engel, S. G., Boutelle, K. N., Pine, D. S., Yanovski, J. A., & Tanofsky-Kraff, M. (2018). A systematic review of attentional biases in disorders involving binge eating. *Appetite*, 123, 367-389.
4. **Shank, L. M.,** Crosby, R. D., Grammer, A. C., Vannucci, A., Burke, N. L., Stojek, M., Brady, S. M., Kozlosky, M., Reynolds, J. C., Yanovski, J.A., & Tanofsky-Kraff, M. (2017). Examination of the interpersonal model of loss of control eating in the laboratory. *Comprehensive Psychiatry*, 76, 36-44.
5. **Shank, L. M.,** Tanofsky-Kraff, M., Kelly, N. R., Schvey, N. A., Brady, S. M., Demidowich, A. P., Galescu, O. A., Pickworth, C. K., Yanovski, S. Z., & Yanovski, J. A. (2017). Pediatric loss of control eating and high-sensitivity C-reactive protein concentrations. *Childhood Obesity*, 13(1), 1-8.
6. **Shank, L. M.,** Tanofsky-Kraff, M., Nelson, E. E., Shomaker, L. B., Ranzenhofer, L. M., Hannallah, L. M., Field, S. E., Vannucci, A., Bongiorno, D., Brady, S. M., Condarco, T., Demidowich, A., Kelly, N. R., Cassidy, O., Simmons, W. K., Engel, S. G., Pine, D. S., & Yanovski, J. A. (2015). Attentional bias to food cues in youth with loss of control eating. *Appetite*, 87, 68-75.

#### **SELECTED POSTER & PAPER PRESENTATIONS (OF 29)**

1. **Shank, L. M.,** Tanofsky-Kraff, M., Kelly, N. R., Jaramillo, M., Rubin, S. G., Byrne, M., LeMay-Russell, S., Burke, N. L., Schvey, N. A., Broadney, M. M., Brady, S., Yanovski, S. Z., & Yanovski, J. A. (2019, March). *The Association Between Alexithymia and Disordered Eating Behaviors in Children and Adolescents*. Poster to be presented at the International Conference on Eating Disorders (ICED), New York City, NY.
2. **Shank, L. M.,** Tanofsky-Kraff, M., Kelly, N. R., Mi, S. J., Grammer, A. C., Jaramillo, M., Oreizi-Esfahani, S., Gomez, M. J., Davis, E. K., Byrne, M., Broadney, M. M., Brady, S., Yanovski, S. Z., & Yanovski, J. A. (2018, November). *The Relationship Between Attentional Bias to Food Cues and BMI-z Change in Youth*. Poster presented at The Annual Scientific Meeting of The Obesity Society (TOS), Nashville, TN.
3. **Shank, L. M.,** Tanofsky-Kraff, M., Radin, R. M., Olsen, C., Shomaker, L. B., Brady, S. M., Sbrocco, T., Wilfley, D. E., Reynolds, J. C., & Yanovski, J. A. (2018, April). *The Impact of Loss of Control (LOC) Eating Remission on Metabolic Syndrome (MetS) Components in Adolescent Girls*. Paper presented at the International Conference on Eating Disorders (ICED), Chicago, IL.
4. **Shank, L. M.,** Schvey, N. A., Oldham, K., Barmine, M., Bates, D., Maurer, D., Stephens, M., Tanofsky-Kraff, M., & Sbrocco, T. (2017, March). *The Relationship Between Weight Stigma and Physical Health in Military Personnel with or at High-Risk of Overweight/Obesity*. Paper presented at the Society of Behavioral Medicine (SBM), San Diego, CA.
5. **Shank, L. M.,** Tanofsky-Kraff, M., Kelly, N. R., Schvey, N. A., Brady, S. M., Demidowich, A. P., Galescu, O. A., Yanovski, S. Z., & Yanovski, J. A. (2016, May). *Pediatric Loss of Control Eating and High-Sensitivity C-Reactive Protein Concentrations*. Paper presented at the International Conference on Eating Disorders (ICED), San Francisco, CA.



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April 12, 2019

**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 Doctor of Philosophy degree effective upon your approval:

**Ryan David Shepard**

DOCTOR OF PHILOSOPHY

Neuroscience Graduate 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 Title Page, Dissertation Abstract, and Curriculum Vitae.

Arthur L. Kellermann, MD, MPH  
Dean, USUHS, School of Medicine

Attachments:  
As stated



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



FINAL EXAMINATION/PRIVATE DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY  
IN THE NEUROSCIENCE GRADUATE PROGRAM

Name of Student: Ryan D. Shepard

Date of Examination: March 26, 2019

Time: 12:00 PM

Place: Room C2015

DECISION OF EXAMINATION COMMITTEE MEMBERS:

PASS

FAIL



✓

Dr. Brian Cox

DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS

Committee Chairperson



✓

Dr. Fereshteh Nugent

DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS

Dissertation Advisor

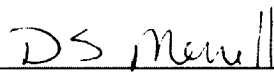


✓

Dr. Irwin Lucki

DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS

Committee Member



✓

Dr. D. Scott Merrell

DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY

Committee Member



✓

Dr. Veronica Alvarez

NATIONAL INSTITUTES OF HEALTH/ NIAAA

Committee Member



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



APPROVAL OF THE DOCTORAL DISSERTATION IN THE NEUROSCIENCE  
GRADUATE PROGRAM

Title of Dissertation: "Targeting LHB-VTA Brain Reward Circuitry Using Novel Antidepressants to Ameliorate the Effects of Early Life Stress"

Name of Candidate: Ryan D. Shepard  
Doctor of Philosophy  
March 26, 2019

DISSERTATION AND ABSTRACT APPROVED:

DATE:

Dr. Brian Cox  
DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS  
Committee Chairperson

4/1/2019

Dr. Fereshteh Nugent  
DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS  
Dissertation Advisor

3/26/2019

Dr. Irwin Lucki  
DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS  
Committee Member

3/26/2019

Dr. D. Scott Merrell  
DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY  
Committee Member

3/26/19

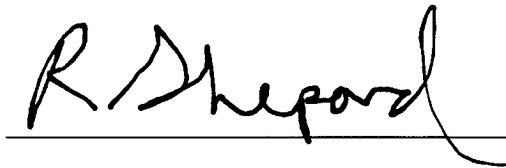
Dr. Veronica Alvarez  
NATIONAL INSTITUTES OF HEALTH/ NIAAA  
Committee Member

3-26-2019

## **COPYRIGHT STATEMENT**

The author hereby certifies that the use of any copyrighted material in the dissertation manuscript entitled: “Targeting LHB-VTA Brain Reward Circuitry Using Novel Anti-Depressants to Ameliorate the Effects of Early Life Stress” is appropriately acknowledged and, beyond brief excerpts, is with the permission of the copyright owner.

[Signature]

A handwritten signature in black ink, appearing to read "R. Shepard", written over a horizontal line.

Ryan D. Shepard  
Neuroscience Graduate Program  
Department of Pharmacology and Molecular  
Therapeutics  
Uniformed Services University  
May 17, 2019

**Targeting LHb-VTA Brain Reward Circuitry Using Novel Anti-Depressants to Ameliorate the  
Effects of Early Life Stress**

by

**Ryan D. Shepard**

**Dissertation submitted to the Faculty of the Neuroscience Graduate Program Uniformed Services  
University of the Health Sciences in partial fulfillment of the requirements for the degree of  
Doctor of Philosophy 2019**

## **Abstract**

**Targeting LHb-VTA Brain Reward Circuitry Using Novel Anti-Depressants to Ameliorate the Effects of Early Life Stress**

Ryan D. Shepard, Doctor of Philosophy, 2019

Thesis directed by: Dr. Fereshteh S. Nugent

Associate Professor

Department of Pharmacology and Molecular Therapeutics

According to the World Health Organization, more than 300 million people have been diagnosed with depression making this a serious global healthcare concern. Dysregulation of dopamine (DA) from the ventral tegmental area (VTA) is implicated in neuropsychiatric disorders including depression and addiction. However, research has now identified that the lateral habenula (LHb), a negative regulator of DA signaling, is also involved. Hyperexcitability of LHb neurons have been observed in depression. Although the complete pathophysiology of depression is unknown, early life stress (ELS) predisposes individuals to depression by impacting processes such as histone acetylation. How ELS dysregulates the VTA and LHb in depression is under investigation.

Our previous work showed that maternal deprivation (MD), a single 24hr isolation of male rats from the dam (analogous to child neglect), could disrupt VTA GABAergic plasticity involving alpha-kinase anchoring protein signaling (AKAP150) and histone deacetylase (HDAC) activity. We now show MD decreases histone acetylation at histone-3-lysine-9 (H3K9) and is attenuated by CI-994, a class I HDAC inhibitor (HDACi). MD impacted mBDNF and AKAP150 abundance, which was ameliorated by HDACi. Lastly, we discovered decreased abundance of



synaptosomal protein kinase A (PKA) with no change in calcineurin (CaN) indicating changes in AKAP150 signaling following MD.

Hyperexcitability and increased “burst” firing of LHb neurons is associated with depression. Recently, ketamine has been shown to exert anti-depressant effects. We previously showed that MD-induced LHb hyperexcitability in early adolescent male rats. We sought to see if MD-induced LHb hyperexcitability persisted into late adolescence and whether it would be associated with pro-depressive behavior in the Forced Swim Test (FST). We show that intrinsic LHb hyperexcitability persists into late adolescence with an increased proportion of “bursting” LHb neurons. Following i.p administration of ketamine, MD-induced LHb hyperexcitability and increased “bursting” was normalized. We identified behavioral differences between early and late adolescence. In early adolescence, MD rats exhibited increased climbing behavior while in late adolescence, MD rats exhibited increased immobility; both sets of behavior were attenuated 24hrs later by ketamine. Both sets of results suggest either ketamine or HDACi could be suitable as novel anti-depressants.

## **Ryan D. Shepard**

### *Curriculum Vitae*

Email: ryan.shepard.ctr@usuhs.edu

### **Education**

Uniformed Services University of the Health Sciences (USU) Bethesda, MD	PhD	2019	Neuroscience
Young Harris College Young Harris, GA	BS	2013	Biology
North Georgia College & State University Dahlonega, GA	BS	2011	Psychology Leadership minor

### **Publications**

**Shepard, R. D.**, Langlois, L. D., Browne, C. A., Berenji, A., Lucki, I., & Nugent, F. S. (2018). Ketamine reverses lateral habenula neuronal dysfunction and behavioral immobility in the forced swim test following maternal deprivation in late adolescent rats. *Frontiers in synaptic neuroscience*, 10.

**Shepard, R. D.**, Gouty, S., Kassis, H., Berenji, A., Zhu, W., Cox, B. M., & Nugent, F. S. (2018). Targeting histone deacetylation for recovery of maternal deprivation-induced changes in BDNF and AKAP150 expression in the VTA. *Experimental neurology*, 309, 160-168.

Authement, M. E.\*, Langlois, L. D.\*, **Shepard, R. D.\***, Browne, C. A., Lucki, I., Kassis, H., & Nugent, F. S. (2018). A role for corticotropin-releasing factor signaling in the lateral habenula and its modulation by early-life stress. *Sci. Signal.*, 11(520), eaan6480.

Authement, M. E., Langlois, L. D., Kassis, H., Gouty, S., Dacher, M., **Shepard, R. D.**, ... & Nugent, F. S. (2016). Morphine-induced synaptic plasticity in the VTA is reversed by HDAC inhibition. *Journal of neurophysiology*, 116(3), 1093.

### **Conference Presentations**

**Shepard, R. D.**, Langlois, L. D., Browne, C. A., Authement, M. E., Berenji, A., Lucki, L., & Nugent, F.S. (November 2018). Ketamine normalizes lateral habenula excitability and reduces

depressive-like behavior following maternal deprivation. Society of Neuroscience Conference. San Diego, CA.

**Shepard, R. D.**, Gouty, S., Cox, B.M., Kassis, H., Zhu, W., Hammack, R., & Nugent, F.S. (November 2018). Targeting histone deacetylation for recovery of maternal deprivation-induced changes in BDNF and AKAP150 expression in the VTA. Society of Neuroscience Conference. San Diego, CA.

Langlois, L. D., **Shepard, R. D.**, Authement, M. E., & Nugent, F. S. (November 2018). Endocannabinoid-mediated spike-timing dependent plasticity in the lateral habenula glutamatergic synapses is modulated by early life stress. Society of Neuroscience Conference. San Diego, CA.

Authement, M., **Shepard, R.**, Langolis, L., & Nugent, F. (November 2017). A Novel Role for Corticotropin Releasing Factor Signaling in the Lateral Habenula and its Modulation by Early Life Stress. Society of Neuroscience Conference. Washington, D.C.

**Shepard, R.**, Kassis, H., Gouty, S., Authement, M., Langolis, L., Browne, C., Lucki, L., Cox, B., & Nugent, F. (November 2017). Epigenetic and synaptic modifications associated with severe early life stress in the ventral tegmental area. Society of Neuroscience Conference. Washington, D.C.

**Shepard, R.**, Authement, M., Langolis, L., & Nugent, F. (December 2016). Changes in neuronal excitability and histone modifications within the LHb may underlie anxiety and depression following early life stress. National Institute on Drug Abuse Genetics Consortium. Rockville, MD.

Authement, M., Kassis, H., Langolis, L., **Shepard, R.**, & Nugent, F. (October, 2016). Maternal Deprivation Induces Hyperexcitability and Synaptic Abnormalities of Lateral Habenula Glutamatergic Neurons. Society of Neuroscience Conference. Chicago, IL.

### **Invited Talks**

“Ketamine Attenuates Lateral Habenula Hyperexcitability Induced by Early Life Stress.” (April, 2019). National Institute for Mental Health (NIMH). Bethesda, MD. Invited by: Dr. Bashkim Kadriu, MD.

“Changes in neuronal excitability and histone modifications within the LHb may underlie anxiety and depression following early life stress.” (May, 2017). USU Graduate Student Colloquium Selected Oral Presentation. USU Research Days 2017. Bethesda, MD.

“Optogenetics: Where Light Meets Genetics”. (August, 2015). Young Harris College. Department of Mathematics and Science. Invited by: Dr. Jennifer Schroeder, PhD.

### **Organization Affiliations**

Student Member, Society for Neuroscience

Student Member, Southeastern Psychological Association



**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**  
4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4712  
usuhs.edu



April 12, 2019

**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 Doctor of Philosophy degree effective upon your approval:

**Kelsey L. Voss**

DOCTOR OF PHILOSOPHY

Emerging Infectious Diseases Graduate 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 Title Page, Dissertation Abstract, and Curriculum Vitae.

Arthur L. Kellermann, MD, MPH  
Dean, USUHS, 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



FINAL EXAMINATION/PRIVATE DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY  
IN THE EMERGING INFECTIOUS DISEASES GRADUATE PROGRAM

Name of Student: Kelsey Voss

Date of Examination: Wednesday, March 20, 2019

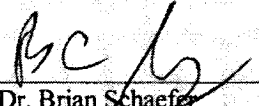
Time: 2:30 PM

Place: Room C2015

DECISION OF EXAMINATION COMMITTEE MEMBERS:


PASS

FAIL

  
\_\_\_\_\_  
Dr. Brian Schaefer  
DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY  
Committee Chairperson


X

\_\_\_\_\_

  
\_\_\_\_\_  
Dr. Andrew Snow  
DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS  
Dissertation Advisor

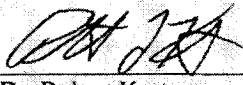
X

\_\_\_\_\_

  
\_\_\_\_\_  
Dr. Chou-Zen Giam  
DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY  
Committee Member

X

\_\_\_\_\_

  
\_\_\_\_\_  
Dr. Robert Kortum  
DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS  
Committee Member

X

\_\_\_\_\_



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



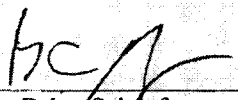
APPROVAL OF THE DOCTORAL DISSERTATION IN THE EMERGING INFECTIOUS DISEASES  
GRADUATE PROGRAM

Title of Dissertation: "Mechanisms of FOXP3-mediated Resistance to Restimulation-induced Cell Death in  
Regulatory and Conventional T Cells"

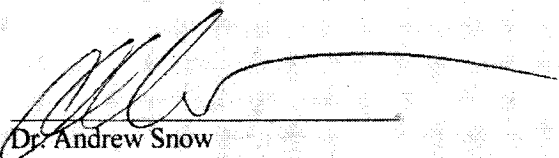
Name of Candidate: Kelsey Voss  
Doctor of Philosophy  
March 20, 2019

DISSERTATION AND ABSTRACT APPROVED:


DATE:

  
Dr. Brian Schaefer  
DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY  
Committee Chairperson

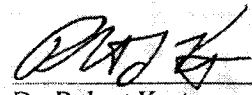
4/4/19

  
Dr. Andrew Snow  
DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS  
Dissertation Advisor

3/20/19

  
Dr. Chou-Zen Giam  
DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY  
Committee Member

3/20/19

  
Dr. Robert Kortum  
DEPARTMENT OF PHARMACOLOGY & MOLECULAR THERAPEUTICS  
Committee Member

3/20/19

## **COPYRIGHT STATEMENT**

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Kelsey Voss

May 17, 2019

## **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.

Mechanisms of FOXP3-mediated resistance to restimulation-induced cell death in  
regulatory and conventional T cells

by

Kelsey Voss

Dissertation submitted to the Faculty of the  
Emerging Infectious Diseases Graduate Program  
Uniformed Services University of the Health Sciences  
In partial fulfillment of the requirements for the degree of  
Doctor of Philosophy 2019



## **ABSTRACT**

Mechanisms of FOXP3-mediated resistance to restimulation-induced cell death in regulatory and conventional T cells:

Kelsey Voss, Doctor of Philosophy, Emerging Infectious Diseases 2019

Thesis directed by: Andrew L. Snow, Associate Professor, Department of Pharmacology & Molecular Therapeutics

The adaptive immune response relies on a multitude of factors to maintain homeostasis. T cell homeostasis is interconnected with the number of T cells responding to an antigen and is guided by pre-programmed death pathways critical for self-regulation. Upon antigen stimulation, conventional effector T cell (Tcon) proliferation is constrained by both forkhead box P3 (FOXP3)+ regulatory T cells (Tregs) and restimulation-induced cell death (RICD). Restimulation-induced cell death (RICD) is an apoptotic program triggered by repeated stimulation through the T cell receptor (TCR) in the presence of interleukin-2 (IL-2). Tregs are considered key mediators of immune homeostasis, mainly by their ability to suppress the activation and function of other T cells. Although regulatory T cells (Tregs) consume IL-2 and experience frequent TCR stimulation, they are highly resistant to RICD. Resistance in Tregs is dependent on the forkhead box P3 (FOXP3) transcription factor, although the mechanism remains unclear. T cells from patients with X-linked lymphoproliferative disease (XLP-1) lack the adaptor

molecule SLAM-associated protein (SAP), and are resistant to RICD due to reduced TCR signal strength upon restimulation. Here we demonstrate that FOXP3 reduces SAP expression by directly binding to and repressing the *SH2D1A* (SAP) promoter, which ensures low SAP levels in order to reduce TCR signal strength upon restimulation. Our findings illuminate the SAP-dependent mechanism behind FOXP3-mediated RICD resistance in Tregs, providing new insight into their long-term persistence.

Furthermore, Tcons are resistant to RICD during activation-induced expansion when FOXP3 is expressed, but the function of transient FOXP3 induction in human Tcons remains unresolved. Here we describe a novel role for FOXP3 in protecting both CD4 and CD8 human Tcons from premature RICD during expansion. Unlike late-stage effector T cells which require SAP expression for optimal RICD, low levels of RICD in expanding Tcons was not affected by SAP. Subsequent transcriptome profiling and functional analyses revealed that FOXP3 enhances expression of the SLAM family receptor CD48, which in turn sustains basal autophagy. Higher basal autophagy levels corresponded to increased RICD resistance in expanding Tcons. Therefore, FOXP3 governs a distinct transcriptional program that maintains RICD resistance in early-stage effector Tcons via CD48-dependent protective autophagy.

# KELSEY VOSS

Top-performing Ph.D. student in Emerging Infectious Diseases with extensive training in T cell biology.

Department of Pharmacology &  
Molecular Therapeutics

Uniformed Services University  
4301 Jones Bridge Road  
Bethesda, MD 20814

Kelsey.voss.ctr@usuhs.edu  
Cell: (703)459-8644

## EDUCATION

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2014 – present	Ph.D. Emerging Infectious Diseases, USU, Bethesda MD Graduation date: May 18 <sup>th</sup> , 2019
2012 – 2014	M.S. Biology, George Mason University, Fairfax VA
2008 – 2012	B.S. Biology, University of Mary Washington, Fredericksburg VA

## RESEARCH EXPERIENCE

---

**Graduate Student**, Department of Pharmacology & Molecular Therapeutics, Uniformed Services University, 2014 – present

- Purified and cultured primary T cells from over 150 healthy blood donors.
- Conducted metabolic assays and subsequent analyses of human T cells using the Agilent Seahorse XFe96.
- Optimized and implemented protocols for autophagy detection in primary T cells and monitoring mitochondrial health.
- Optimized flow cytometry-based calcium flux assays in primary T cells.
- Experienced with FACS and cell culture of human regulatory T cells (Tregs).
- Prepared samples for single-cell RNA Seq (10X Genomics) and bulk RNA-Seq.
- Produced and optimized lentiviral vector transductions for primary T cells.
- Trained incoming lab members, rotation students, technicians and post-doctoral fellows.
- Responsible for maintenance and care of the BD Accuri C6 flow cytometer and the Stem Cell Technologies RoboSep-S.
- Initiated and sustained productive research collaborations.

**Graduate Student**, National Center for Biodefense and Infectious Diseases, George Mason University, 2012 – 2014

- Responsible for experimental design and optimization of viral plaque assays, Western blot, and qPCR analyses.
- Maintained 5+ cell lines in tissue culture at all times, including freezing down stocks and thawing fresh vials as necessary.
- Investigated the effects of various inhibitors of Venezuelan Equine Encephalitis Virus, Dengue Virus, and Rift Valley Fever Virus.

**Intern**, Department of Infectious Disease, J Craig Venter Institute, Summer 2013

- Responsible for PCR troubleshooting a microbiome project worth \$3M.
- Wrote SOPs adopted for use in over 5,000 clinical samples.
- Successfully assessed the virulence of *Burkholderia pseudomallei* mutants in a non-vertebrate model.
- Prepared libraries for Illumina sequencing.
- Learned basic R programming and statistical analyses.

**Research Assistant**, Clinical Research Department, Mary Washington Hospital, Summer 2012

- Assisted in the formulation for a new patient registration system for the Central Office of Research Excellence.
- Investigated and responded to queries in a Hokusai clinical trial.
- Successfully organized patient files and medical records for 8 clinical studies.
- Transcribed meeting notes for all research department members.
- Maintained patient confidentiality and HIPAA regulations at all times.

**Undergraduate research student**, Department of Biological Sciences, University of Mary Washington, 2010 – 2012

- Identified target genes in the ERRy pathway resulting from Bisphenol A exposure in breast cancer.
- Authored 2 approved research proposals for intramural funding.
- Conducted 30+ real-time PCR arrays and subsequent genetic analysis.

## HONORS AND AWARDS

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- Henry M. Jackson Foundation Fellowship (\$36,000+benefits): Competitively awarded to one graduate student for stipend support. Considerations based on academic performance, research productivity, publications, institutional citizenship, and faculty recommendations. USU, 2018 – 2019
- Travel award (\$750): American Association of Immunologists, 2019
- Emma L. Bockman Award (\$750): For outstanding scholastic achievement while a graduate student. USU, 2018
- Travel award (\$300): American Association of Immunologists, 2018
- Intramural research grant (\$5,000): Mechanisms of FOXP3 in restimulation-induced cell death in regulatory and conventional T cells. USU, 2018
- ThermoFisher Trainee Achievement Award (\$1,000): Awarded to 6 promising trainees (graduate students and/or post-doctoral fellows) in the field of immunology. American Association of Immunologists, 2017
- Travel award (\$1,000): American Association of Immunologists, 2017

- College of Science Master's Student Impact Award: Presented to one Masters student for publishing impactful research. George Mason University, 2014

## PUBLICATIONS

---

1. **Voss K**, Lake C, Luthers CR, Lott NM, Dorjbal B, Arjunaraja S, Bauman BM, Soltis AR, Sukumar G, Dalgard CL, Snow AL. (2019) FOXP3 protects conventional human T cells from premature restimulation-induced cell death. *Manuscript submitted to EMBO Reports*.
2. Katz G\*, **Voss K\***, Yan TF, Kim YC, Kortum RL, Scott DW, Snow AL. (2018) FOXP3 renders activated human regulatory T cells resistant to restimulation-induced cell death by suppressing SAP expression. *Cellular Immunology* 327: 54-61  
\*co-first author
3. **Voss K**, Larsen SE, Snow AL. (2017) Metabolic reprogramming and apoptosis sensitivity: Defining the contours of a T cell response. *Cancer Letters* 408: 190-196
4. Larsen SE, **Voss K**, Laing ED, Snow AL. (2017) Differential cytokine withdrawal-induced death sensitivity of effector T cells derived from distinct human CD8+ memory subsets. *Cell Death Discovery* (3) 17031
5. Ma CA, Stinson JR, Zhang Y, Abbott JK, Weinreich MA, Hauk PJ, Reynolds PR, Lyons JJ, Nelson CG, Ruffo E, Dorjbal B, Glauzy S, Yamakawa N, Arjunaraja S, **Voss K**, Stoddard J, Niemela J, Zhang Y, Rosenzweig SD, McElwee JJ, DiMaggio T, Matthews HF, Jones N, Stone KD, Palma A, Oleastro M, Prieto E, Bernasconi A, Dubra G, Danielian S, Zaiat J, Marti MA, Kim B, Cooper MA, Romberg N, Meffre E, Gelfand EW, Snow AL, Milner JD. (2017). Germline hypomorphic CARD11 mutations in severe atopic disease. *Nature Genetics* 49 (11)
6. Amaya M, Keck F, Lindquist M, **Voss K**, Scavone L, Kehn-Hall K, Roberts B, Bailey C, Schmaljohn C, Narayanan A. (2015) The ubiquitin proteasome system plays a role in Venezuelan equine encephalitis infection. *PLoS One* 10(4).
7. **Voss K**, Amaya M, Mueller C, Roberts B, Kehn-Hall K, Bailey C, Petricoin E 3<sup>rd</sup>, Narayanan A. (2014). Inhibition of host extracellular signal-regulated kinase (ERK) activation decreases new world alphavirus multiplication in infected cells. *Virology* 468-470
8. Amaya M, **Voss K**, Sampey G, Senina S, de la Fuente C, Mueller C, Calvert V, Kehn-Hall K, Carpenter C, Kaschanchi F, Bailey C, Mogelsvang S, Petricoin E, Narayanan A. (2014) The role of IKK $\beta$  in Venezuelan equine encephalitis infection. *PLoS One* 9(2).
9. Narayanan A, Amaya M, **Voss K**, Chung M, Benedict A, Sampey G, Kehn-Hall K, Luchini A, Liotta L, Bailey C, Kumar A, Bavari S, Hakami RM, Kaschanchi F. (2014) Reactive oxygen species activate NF $\kappa$ B (p65) and p53 and induce apoptosis in RVFV infected liver cells. *Virology* 449.
10. Amaya M, Baer A, **Voss K**, Campbell C, Mueller C, Bailey C, Kehn-Hall K, Petricoin E 3<sup>rd</sup>, Narayanan A. (2014) Proteomic strategies for the discovery of novel diagnostic and therapeutic targets for infectious diseases. *Pathogens and Disease* 71(2).

## SELECTED CONFERENCE PRESENTATIONS AND SYMPOSIUMS

---

2019	Oral & poster presentation, American Association of Immunologists Annual Meeting
2018	Oral & poster presentation, Uniformed Services University Research Days
2018	Poster presentation, American Association of Immunologists Annual Meeting
2017	Oral & poster presentation, American Association of Immunologists Annual Meeting
2017	Oral & poster presentation, Uniformed Services University Research Days
2016	Poster presentation, American Association of Immunologists Annual Meeting
2016	Poster presentation, Uniformed Services University Research Days
2015	Student participant, Interagency Health Leadership Roundtable, National Defense University
2014	Poster presentation, American Society for Microbiology, Biodefense and Emerging Infectious Diseases Conference

## TEACHING EXPERIENCE

---

**Graduate student teaching assistant:** Models of emerging infectious diseases, USU (Winter 2018 – present)

- Lead graduate students in group discussions.
- Graded oral presentations and midterm evaluations.
- Communicated verbal and written critiques to graduate students.
- Assigned primary research articles for class discussions.

**Graduate student teaching assistant:** George Mason University (Fall 2013 – Spring 2014)

- Independently conducted the laboratory sessions for the Honors College course “Science in Human History”.
- Taught human evolution, botany, and infectious diseases to non-science majors.

## LEADERSHIP & MENTORSHIP

---

**3 Minute Thesis (3MT) Leadership team:** USU (Winter 2018 – present)

- Coordinated a scientific communications workshop for students and post-doctoral fellows.
- Assisted in organizing the annual 3MT competition for USU graduate students.

**Graduate Student Representative:** Student Wellness Advisory Board, USU (Spring 2017 – present)

- Represented graduate student wellness for all graduate programs within the medical school and nursing school.
- Assisted in composing a monthly wellness newsletter for medical students, nursing students and graduate students.
- Participated on a committee to plan and organize the first Graduate Student Appreciation Week at USU.

Ph.D. rotation students: Lam Thuy Vi Tran-Ho (Winter 2017 rotation), Camille Lake (Spring 2017 rotation), and Scott Schaffer (Fall 2016 rotation)

High school students: Lunhao Huo (Summer 2016)

Synchronized Swimming coach: ~30 swimmers ranging from ages 8 to 18; NoVa Synchro, Arlington VA (Fall 2016 – present)

- Choreographed and organized routines for competition for multiple age groups.
- Coached and trained swimmers that successfully qualified for Junior Nationals.

## REFERENCES

---

### Andrew Snow, Ph.D.

Associate Professor, Department of Pharmacology & Molecular Therapeutics, USU

- Principal investigator, Ph.D. mentor

Office phone: 301-295-3267

E-mail: [Andrew.snow@usuhs.edu](mailto:Andrew.snow@usuhs.edu)

### Brian Schaefer, Ph.D.

Professor, Department of Microbiology and Immunology, USU

- Chair of thesis committee

Office phone: 301-295-3402

E-mail: [Brian.schaefer@usuhs.edu](mailto:Brian.schaefer@usuhs.edu)

### Robert Kortum, M.D., Ph.D.

Assistant Professor, Department of Pharmacology & Molecular Therapeutics, USU

- Thesis committee member

Office phone: 301-295-3249

E-mail: [Robert.kortum@usuhs.edu](mailto:Robert.kortum@usuhs.edu)

### Edward Mitre, M.D.

Professor, Department of Microbiology and Immunology, USU

- Supervised graduate teaching assistantship for Models of Emerging Infectious Diseases Office phone: 301-295-1958

E-mail: [Edward.mitre@usuhs.edu](mailto:Edward.mitre@usuhs.edu)

## **TAB 12**

*Degree Granting*

*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/gsn](http://www.usuhs.edu/gsn)



April 12, 2019

**MEMORANDUM FOR:** PRESIDENT, USUHS

**THROUGH:** BOARD OF REGENTS

**SUBJECT:** GSN Graduates 18 May 2019

The following Daniel K Inouye Graduate School of Nursing students are scheduled to complete their respective programs on 17 May 2019 and have met all of the academic, clinical and scholarly requirements for graduation. The Dean requests that the President, USUHS award the following students the Doctor of Nursing Practice or the Master of Science degrees.

*Master of Science in Nursing* candidates

Last Name	First Name	Rank	Service Branch	Program
Quirao	Lauren	Maj	USAF	AG-CNS
Wagner	Doris	Maj	USAF	AG-CNS

*Doctor of Nursing Practice* candidates

Last Name	First Name	Rank	Service Branch	Program
Fedderson	Daniel	MAJ	USA	AG-CNS
Romito	Kenneth	MAJ	USA	AG-CNS
Aandahl	Crystal	LCDR	USN	FNP
Antone	Rachael	Capt	USAF	FNP
Bailey	Derrick	Capt	USAF	FNP
Bowers	Lisa	MAJ	USA	FNP
Del Rio	Nathan	Capt	USAF	FNP
Horton	Kayla	LCDR	USN	FNP
McDowell	Kara	LCDR	USN	FNP
Michna	Joseph	MAJ	USA	FNP
Riffle	Jimmie	LT	USN	FNP
Rodriguez	Amanda	CPT	USA	FNP
Romero, Jr.	Jorge	Capt	USAF	FNP
Woodie	Michelle	Maj	USAF	FNP
Ziezulewicz	Amy	CDR	USN	FNP
Barajas	Andrea	Capt	USAF	PMH
Binder	Michelle	Capt	USAF	PMH

Bowser	Roderick	MAJ	USA	PMH
Hale	Catoya	Capt	USAF	PMH
McInerney	John	MAJ	USA	PMH
O'Quin	Colby	LCDR	USN	PMH
Alford	Brandi	LCDR	USN	RNA
Bledsoe	Rusty	LT	USN	RNA
DeBarros	Shayna	MAJ	USA	RNA
Gallegos	Elizabeth	LT	USN	RNA
Hennen	Bryan	LT	USN	RNA
Holmes, Jr.	Steven	Capt	USAF	RNA
Knott	Katherine	Maj	USAF	RNA
McGowen	Jonathan	LT	USN	RNA
Meaders	Rachael	Capt	USAF	RNA
Narayan	Kenneth	Capt	USAF	RNA
Pendry	Nicole	LT	USN	RNA
Reddin, Jr.	Anthony	Capt	USAF	RNA
Richling	Melissa	LT	USN	RNA
Rockwell	Alisen	LT	USN	RNA
Scott	Alicia	Capt	USAF	RNA
Sebald	Mark	LT	USN	RNA
Wittwer	Robert	Maj	USAF	RNA
Humphrey	Michael	Capt	USAF	WHNP
Thompson	Julie	Maj	USAF	WHNP

*Carol A. Romano*

---

Carol Romano, PhD, RN, FAAN  
Dean & Professor

---

Richard W. Thomas, MD, DDS, FACS  
President

Date: \_\_\_\_\_

## **TAB 13**

*Degree Granting*

*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>



19 March 2019

**MEMORANDUM FOR:** PRESIDENT, USUHS

**THROUGH:** BOARD OF REGENTS

**SUBJECT:** Certification of Postgraduate Dental Students

The Postgraduate Dental College students listed below are scheduled to complete their programs of instruction by June 30, 2019. It is requested that the Executive Dean be authorize to award or withhold the Master of Science in Oral Biology degree based upon their successful completion of program requirements. The 2019 Postgraduate Dental College students and their research projects are listed below:

### **Army Postgraduate Dental School**

#### ***COMPREHENSIVE DENTISTRY – FORT BRAGG, NC***

**CPT Yu-Sheng Chen, DC, USA** – Evaluating the knowledge and opinions of Army dentists regarding Silver Diamine Fluoride

**CPT Yunsung Hong, DC, USA** – A Comparison of Curing Distances and Their Effects on the Photocurability of 3M Filtek One Bulk Fill Restorative

**CPT(P) Sara Elizabeth Mandell, DC, USA** – Oral Health Knowledgeability, Attitudes, and Practice Behaviors of Medical Providers at Womack Army Medical Center: An Opportunity for Inter-professional Collaboration

**CPT Caroline L. Mikaloff, DC, USA** - A Comparison of Physical Properties of a Glass Ionomer, Resin-Modified Glass Ionomer, Conventional Nanocomposite, and Bioactive Restorative Material

**CPT David Kirk Scoville, DC, USA** – Curing Composite Resin Through a Clear Polyvinyl Siloxane Matrix and its Effect on Microhardness

#### ***COMPREHENSIVE DENTISTRY – FORT HOOD, TX***

**CPT Angelicas Bedoya Astrauskas, DC, USA** - Comparison of Opioid Prescription Pattern Trends from 2010 to 2017 amongst DENTAC and selected Departments of the Carl R. Darnall Army Medical Center at Fort Hood, TX

**CPT Gary C. Chen, DC, USA** - Psychosocial risk factors and bruxism in the United States military population



**CPT Shauna D. Jones, DC, USA** - Statistical nanoindentation analysis of modern dental composites

**Maj Glen Fernandes, RCDC, Canadian Forces** - Oral Health knowledge, practices and attitude amongst United States Army Enlisted Soldiers at Fort Hood, Texas

**MAJ Jesse A. Thietten, DC, USA** - Absolute Sterility of Omnicam Sleeves after Intermediate Level Disinfection vs Dry Heat Sterilization

**CPT Carolina V. Wentworth, DC, USA** - Effect of filler distribution on fracture resistance of modern dental composites

### ***COMPREHENSIVE DENTISTRY – SCHOFIELD BARRACKS, HI***

**MAJ Pamela S. Cotton, DC, USA** – CEREC SpeedFire Oven Versus InFire HTC Speed oven: Comparison of Flexural Strength and Fatigue of Katana STML Zirconia with Different Sintering Programs

**MAJ Michael A. Hoffman, DC, USA** – Fracture Resistance of Three Monolithic CAD/CAM-manufactured Implant-supported Crowns Cemented to a Ti-base Connector

**CPT Christian Donovan Petersen, DC, USA** – A Determination of Sterilization Efficacy and Bacterial Pathogenicity Regarding Dental Implant Osteotomy Burs

### ***ENDODONTICS – FORT BRAGG, NC***

**MAJ Bonnie Fletcher Boudreaux, DC, USA** – Endodontic Treatment Planning the First Molar: A Comparison Survey of General Dentists and Endodontists

**MAJ Tyler Reed Burningham, DC, USA** – Survey of Endodontists' Restorative Preference Following Endodontic Therapy

**MAJ James Lloyd Phillips, DC, USA** – Survey of Endodontists' Preference for the Treatment of External Cervical Resorption Based on PA and CBCT Images

**MAJ Carleen Sells, DC, USA** – Endodontics on YouTube: Evaluation of Content Compared to Evidence Based Standards

### ***ENDODONTICS – FORT GORDON, GA***

**MAJ Mauro Correa, Jr., DC, USA** – Heat Generation Changes with Electrically-heated Pluggers After Multiple Autoclave Cycles at Different Operating Temperatures

**MAJ Joseph R. Ferguson, DC, USA** – The Association Between History of Traumatic Brain Injury and Rates of Dental Treatment, Endodontic Treatment Specifically and Caries Risk: A Records-based Study

**CPT Scott W. Otterson, DC, USA** – Surface Integrity of Root Ends Following Apical Resection with Guided Trepine Burs

### ***PERIODONTICS – FORT GORDON, GA***

**CPT Richard B. Hill, DDS, DC, USA** – Observations and Identification of a Novel Population of Parietal Ridge Osteoprogenitor Stem Cells in a Rat Critical-sized Calvarial Defect Bone Regeneration Model



**CPT Daniel J. Phillips, DC, USA** – Buccal Bone Thickness Adjacent to Virtual Dental Implants Following Guided Bone Regeneration

**CPT Ryan T. McGary, DC, USA** – Descriptive Analysis of Possible Dural Stem/Progenitor Cells Activated in a Rat Critical-Sized Calvarial Defect Bone Regeneration Model

**CPT Dane T. Swenson, DC, USA** – Overlay Analysis of Cone-beam Computed Tomography Images Acquired Before and After Guided Bone Regeneration Surgery

### ***PROSTHODONTICS – FORT GORDON, GA***

**CPT Kellie S. O’Keefe, DC, USA** - Effect of metal framework incorporation and Locator processing technique on initial and long term overdenture retention

**CPT Patricia Michelle Walworth, DC, USA** - Comparison of accuracy for three types of implant surgical guides

**CPT Jin Jie Xue, DC, USA** - Effect of Manufacturer and Laboratory Processing Variability on Pre-shaded Ceramic Crown Color

## **Naval Postgraduate Dental School Navy Medicine Professional Development Center Bethesda, MD**

### ***COMPREHENSIVE DENTISTRY***

**CDR Mitchell R. Checchi, DC, USN** – Associations Among Oral Health Knowledge, Locus of Control, and Periodontal Risk Status

**CDR Patrick J. Fox Jr., DC, USN** – The Effects of a Therapy Dog Intervention on Distress in Adult Patients Undergoing Dental Procedures: A Pilot Study

**LCDR Erik D. Anderson, DC, USN** – Correlations Between Oral Health Knowledge, Locus of Control, and Caries Risk Status

**LCDR Erin S. Bailey, DC, USN** – Coconut Oil and Sesame Oil as Antimicrobial and Anti-plaque Agents in Comparison with Chlorhexidine and Listerine

**LCDR Richard D. Bartol III, DC, USN** – The Effect of Resin Cement Type on the Retention/Tensile Strength of PICN Restorations to Titanium Base Abutments

**LCDR Alan H. Chen, DC, USN** – Evaluation of Toxic Contaminants Released from Five Dental Composites at Different Light Curing Distances

**LCDR Hoan B. Nghiem, DC, USN** – Prevalence of Dental Anxiety in Active Duty Service Members

**LCDR James A. Shaul, DC, USN** - Military Dental Patient and Provider Characteristics Associated with Opioid Analgesic Prescriptions

### ***ENDODONTICS***

**LCDR Kathy A. Ligon, DC, USN** – Outcome of Endodontically Treated Teeth Diagnosed with “Cracked Tooth”

**LCDR Molly E. Kopacz, DC, USN** – A Clinical Evaluation of Cone Beam Computed Tomography



**LCDR Grant R. Layton, DC, USN** – The Effect of Smear Layer Removal on Endodontic Outcomes  
**LT Blake A. Donaldson, DC, USN** – Evaluation of Ca(OH)<sub>2</sub> Placement in Simulated Curved Canals Using CBCT

### ***ORAL AND MAXILLOFACIAL PATHOLOGY***

**MAJ Parth Mewar, DC, USA** – Fibrohistiocytic Lesions of the Gnathic Bones  
**Maj Kimberly N. Tong, USAF, DC** – A Survey of Military Dental Practitioners' Performance of Soft Tissue Biopsies

### ***PERIODONTICS***

**LCDR Elizabeth A. Polak, DC, USN** – Extraction Site Preservation Using FDBA with BioXclude vs FDBA with Bio-Gide: A Randomized Clinical Trial  
**LCDR Brent A. Tibbet, DC, USN** – Porcine Collagen Matrix with and without Enamel Matrix Derivative for the Treatment of Gingival Recession Defects  
**LT Ryan A. Kaye, DC, USN** – Porcine Collagen Matrix with and without Enamel Matrix Derivative for the Treatment of Gingival Recession Defects  
**LT Claus J. Ullstad, DC, USN** – Comparison of a Nd:YAG Laser to Air-Abrasion in Decontaminating Titanium Implants Utilizing a Peri-Implantitis Defect Model

### ***PROSTHODONTICS***

**LT Frank I. Gentz, DC, USN** – Comparison of Retentive Forces of Cobalt-Chromium and Thermoplastic Resin Clasp Assemblies  
**CPT Eric C. Hu, DC, USA** – Benchtop Analysis of the Effect of Screw Channel Angulation on Reverse Torque Values of Dental Implant Abutment Screws

## **Air Force Postgraduate Dental School**

### ***COMPREHENSIVE DENTISTRY – JBSA LACKLAND, TX***

**Maj Coleman Kord Christensen, USAF, DC** – Efficacy of Pulpal Anesthesia Using a Needle-less Syringe  
**Maj Kevin Eugene Kemarly, USAF, DC** – Effect of Various Surface Treatments on the Pull-Off Bond Strength Between Lithium Disilicate and a Titanium Implant Abutment Base  
**Lt Col Collin D. Holman, USAF, DC** – Flexural Strength Degradation of New Cubic-Containing Zirconia Materials  
**Maj Scott A. Walker, USAF, DC** – A Survey of Air Force General Dentists Regarding CAD/CAM Usage  
**Maj Andrew W. Ellis, USAF, DC** – Efficacy of Screening for GERD In The Dental Setting  
**Lt Col Clay John Jensen Jr., USAF, DC** – Efficacy of Auricular Acupuncture in Reducing Pain After Third-Molar Extractions



### ***COMPREHENSIVE DENTISTRY – KEESLER AFB, MS***

**Capt C. Austin Fluke, USAF, DC** – CAD Marginal Fit Comparison of Lithium Silicate and Lithium Disilicate

**Capt Joshua S. Grenier, USAF, DC** – Long-Term Volumetric Analysis of Resin Composites Stored in PBS

**Capt Cory A. Hoch, USAF, DC** – Dentin Bonding Agent Volatility in Relation to Shear Bond Testing

**Capt Greg A. Spilsbury, USAF, DC** – Endodontic Access Effect on Lithium Silicate Fracture Resistance

### ***ENDODONTICS – JBSA LACKLAND, TX***

**Maj Julie Ann Anderson, USAF, DC** – Targeted Endodontic Microsurgery: A Clinically Oriented Assessment of Three 3D Printers

**Maj Tyler Kent Hawkins, USAF, DC** – Targeted Endodontic Microsurgery and EMS: A Surgical Simulation Comparison

### ***ENDODONTICS – KEESLER AFB, MS***

**Maj Timothy A. Carlson, USAF, DC** – Micro-CT Evaluation of EndoSequence BC Sealer HiFlow Performance by Technique

### ***PROSTHODONTICS – JBSA LACKLAND, TX***

**Capt Hee Sun Kim, USAF, DC** – An Investigation of the Effect of Cleaning Solutions on Plaque Removal, Surface Roughness and Hardness of Occlusal Devices

**Capt Harrison D. Gordner, USAF, DC** – Longevity of Denture Tooth Characterization

**MAJ Farzan Pournfar, DC, USA** – Effect of Tooth-brushing on Surface Color of Ceramicpolymer Materials: An In Vitro Study

### ***TRI-SERVICE ORTHODONTIC RESIDENCY PROGRAM – JBSA LACKLAND, TX***

**Maj Daniel Patrick Chartrand, USAF, DC** – Change in Mandibular Incisor Facial Bone Height and Thickness Following Class II Correction with a Compressed Coil Spring Appliance

**CPT Brett DuWayne Cox, DC, USA** – Cone Beam Computed Tomography Interpretation in Orthodontic Practices.

**Maj Phuong Minh Vien Nguyen, USAF, DC** – Comparison of Orthodontic Adhesives for Bonding Ceramic Brackets to CAD/CAM Provisional Crowns

**LCDR Ebony Deanna Reed, DC, USN** – A Survey of the Utilization of Ligation Bracket Systems by Orthodontists in the United States

**MAJ Jonathan Yrisarri Stateson, DC, USN** – The Use of CBCTs to Determine Relative Anchorage Values by Measuring Maxillary Root Surface Areas within Bone



**LCDR Robert Douglas Stoner, DC, USN** – Shear Bond Strength with Indirect Bonding Variables:  
Tray Thickness and Material

If requested by the Board, copies of the research projects will be available upon completion of the program.

Respectfully,

SCHNEID.THOMAS  
S.R.1028588689

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Date: 2019.04.12 08:13:26 -05'00'

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

# **TAB 14**

*Degree Granting*

*College of Allied Health Sciences*



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

COLLEGE OF ALLIED HEALTH SCIENCES  
2787 WINFIELD SCOTT ROAD, BLDG 2398  
JBSA FT. SAM HOUSTON, TEXAS 78234




30 April 2019

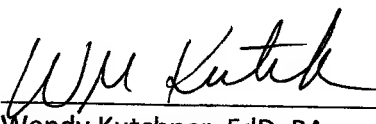
MEMORANDUM FOR PRESIDENT USU

THROUGH: BOARD OF REGENTS

SUBJECT: CAHS Graduates

The College of Allied Health Sciences' students identified on page two of the document are projected to complete the indicated program, meeting all academic, clinical and scholarly requirements to graduate in May 2019, for the degree indicated. The Dean, CAHS, requests the President, USU, award the following students the Associate or Bachelors of Science in Health Sciences degree, as listed, pending completion of degree requirements.

  
M. \_\_\_\_\_, BSN, AS, RN  
Chief Academic Officer and Dean, CAHS

  
Wendy Kutchner, EdD, BA  
Registrar, USU

Approved / Not Approved

\_\_\_\_\_  
Richard W. Thomas, MD, DDS, FACS  
President

\_\_\_\_\_  
Date

**College of Allied Health Sciences Projected Graduates – May 2019**

Last Name	First Name	Middle Initial	Branch	Rank	Degree	Program/Major
Cook	Jared	R	Navy	E-3	ASHS	Public Health
Cuello	Danielle	P	Navy	E-5	ASHS	Public Health
Dossantos	Christian		Army	E-3	ASHS	Public Health
Dyrhaug	Jason		Navy	E-5	ASHS	Public Health
Fahey	Shawn	M	Navy	E-4	ASHS	Public Health
Forrey	Mark	H	Navy	E-5	ASHS	Public Health
Funder	Justin		Navy	E-1	ASHS	Public Health
Horning	Nathan	L	Navy	E-5	ASHS	Public Health
Jenkins	Owen		Army	E-1	ASHS	Public Health
Kennedy	Lauren	E	Navy	E-4	ASHS	Public Health
Koudou	Sabrina		Navy	E-2	ASHS	Public Health
Martin	Darje		Army	E-3	ASHS	Public Health
Martinez	Diego	M	Navy	E-3	BSHS	Public Health
Pettis	Robert	L	Army	E-3	ASHS	Public Health
Sehen	Derrick		Navy	E-3	ASHS	Public Health
Thompson	Carly		Navy	E-3	ASHS	Medical Lab Technician
Tsuji	Kimberly		Army	E-4	ASHS	Public Health
Valenzuela	Eddy	A	Navy	E-1	ASHS	Public Health
Velarmino	Angelo-Noel	C	Navy	E-3	ASHS	Medical Lab Technician
White	Joshua		Army	E-4	BSHS	Medical Lab Technician

## **TAB 15**

*Faculty Appointments and Promotions*  
*Hébert 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](http://www.usuhs.edu)



April 24, 2019

## MEMORANDUM FOR BOARD OF REGENTS

SUBJECT: Faculty Appointments

The attached is a recommendation for a faculty appointment made by the Committee of Appointments, Promotion and Tenure equivalent, dated 25 March 2019, for James C. West, MD, as required in the USU Instructions 1107A. I respectfully recommend the endorsement of this recommendation and forward it to the President of the University for further action.

Sincerely,

Arthur L. Kollermann, MD, MPH  
Professor and Dean, School of Medicine

Attachments

PROPOSED FACULTY RECOMMENDATIONS

May 17, 2019

SOM BOR LIST AMENDMENT

DEPARTMENT/ NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
<b><u>Primary Appointments</u></b> <b><u>(Billeted)</u></b>		
<i><u>PSYCHIATRY</u></i>		
WEST, James C. MD	Associate Professor Tenure- Track	Appointment/ USUHS



# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

OFFICE OF THE DEAN  
4301 JONES BRIDGE ROAD  
BETHESDA, MARYLAND 20814-4799  
[www.usuhs.edu](http://www.usuhs.edu)



March 28, 2019

## MEMORANDUM FOR BOARD OF REGENTS

SUBJECT: Faculty Appointments

The attached are recommendations made by the Committee of Appointments, Promotion and Tenure at a meeting on March 11, 2019. I recommend that you approve these recommendations and forward them to the President of the University for further action.

Sincerely,

Arthur L. Kellermann, MD, MPH  
Professor and Dean, School of Medicine

Attachments



# PROPOSED FACULTY RECOMMENDATIONS

May 17, 2019

## BOR LIST

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
<b><u>Primary Appointments</u></b> <b><u>(Billeted)</u></b>		
<u>ANATOMY, PHYSIOLOGY</u> <u>AND GENETICS</u>		
BYRNES, Kimberly PhD	Professor With Tenure	Promotion/ USUHS
<u>MEDICINE</u>		
MAGGIO, Lauren PhD	Associate Professor With Tenure	Tenure/ USUHS
MCBEE, Elexis DO, MPH	Associate Professor Non-Tenured	Promotion/ USUHS
TORRE, Dario MD, MPH, PhD	Professor Non-Tenured	Promotion/ USUHS
<u>PREVENTIVE MEDICINE</u> <u>AND BIOSTATISTICS</u>		
MANCUSO, James COL, MC, USA	Professor Non-Tenured	Promotion/ USUHS
<b><u>Primary Appointments</u></b> <b><u>(Non-Billeted)</u></b>		
<u>ANESTHESIOLOGY</u>		
JAMISON, David MD	Associate Professor Non-Tenured	Promotion/ Bethesda, MD
<u>MEDICINE</u>		
BATCHINSKY, Andriy MD	Adjunct Professor Non-Tenured	Appointment/ Ft. Sam Houston, TX

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
CASARES, Sofia PhD	Research Professor Non-Tenured	Promotion/ Silver Spring, MD
GERASIMON, Gregg COL, MC, USA	Associate Professor Non-Tenured	Promotion/ San Antonio, TX
GORAYA, Navjit MD	Adjunct Associate Professor Non-Tenured	Promotion/ Washington, DC
LAU, Chuen-Yen MD, MPH	Adjunct Associate Professor Non-Tenured	Promotion/ Rockville, MD
PALMORE, Tara MD	Adjunct Professor Non-Tenured	Appointment/ Bethesda, MD
TROY, Stephanie MD	Adjunct Associate Professor Non-Tenured	Appointment/ Silver Spring, MD
YAMAMOTO, Joshua MD	Clinical Associate Professor Non-Tenured	Promotion/ Washington, DC
<u><i>MILITARY AND EMERGENCY MEDICINE</i></u>		
AUTEN, Jonathan CDR, MC, USN	Associate Professor Non-Tenured	Promotion/ Portsmouth, VA
PORTER, Paul MD, MBA	Adjunct Associate Professor Non-Tenured	Appointment/ Sewickley, PA
POWELL-DUNFORD, Nicole LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ Ft. Sam Houston, TX
<u><i>NEUROLOGY</i></u>		
HSIA, Amie MD	Adjunct Associate Professor Non-Tenured	Appointment/ Bethesda, MD
<u><i>OBSTETRICS AND GYNECOLOGY</i></u>		
HILL, Micah LTC, MC, USA	Professor Non-Tenured	Promotion/ Bethesda, MD
<u><i>PEDIATRICS</i></u>		
ELROD, Marilisa CDR, MC, USN	Associate Professor Non-Tenured	Promotion/ Portsmouth, VA

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
FALLOT, Andre MD, MPH	Clinical Professor Non-Tenured	Promotion/ Tacoma, WA
MAY, Joseph LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ Bethesda, MD
<b><u>PREVENTIVE MEDICINE AND BIOSTATISTICS</u></b>		
COLOMBO, Rhonda MD, MHS	Associate Professor Non-Tenured	Appointment/ Tacoma, WA
WEBBER, Bryant MAJ, USAF, MC	Adjunct Associate Professor Non-Tenured	Promotion/ Wright Patterson AFB, OH
<b><u>SURGERY</u></b>		
ARCILLA, Crisostomo MD	Adjunct Professor Non-Tenured	Appointment/ Manila, Philippines
EASTMAN, Alexander MD, MPH	Associate Professor Non-Tenured	Appointment/ Irving, TX
GRANT, Kenneth PhD	Professor Non-Tenured	Appointment/ Bethesda, MD
IGNACIO, Romeo MD	Adjunct Associate Professor Non-Tenured	Promotion/ San Diego, CA
JENKINS, Donald MD	Adjunct Professor Non-Tenured	Promotion/ San Antonio, TX
MORRISON, Jonathan PhD	Adjunct Associate Professor Non-Tenured	Appointment/ Baltimore, MD
ROGERS, Derek LTC, MC, USA	Associate Professor Non-Tenured	Promotion/ Tacoma, WA

**Secondary Appointments  
(Billeted)**

**NEUROSCIENCE**

BYRNES, Kimberly PhD	Professor Non- Tenure	Promotion/ USUHS
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DEPARTMENT/NAME

PROPOSED RANK

ACTION/CURRENT  
DUTY STATION

**Secondary Appointments**  
**(Non- Billeted)**

**PEDIATRICS**

ROGERS, Derek  
LTC, MC, USA

Associate Professor  
Non-Tenured

Promotion/  
Tacoma, WA

**SURGERY**

BATCHINSKY, Andriy  
MD

Adjunct Professor  
Non-Tenured

Appointment/  
Ft. Sam Houston, TX

## **TAB 16**

*Faculty Appointments and Promotions  
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/gsn](http://www.usuhs.edu/gsn)



April 9, 2019

MEMORANDUM FOR BOARD OF REGENTS

SUBJECT: Faculty Appointments and Promotions

1. The attachment is a list of recommendations for appointments and promotions in the Daniel K. Inouye Graduate School of Nursing.
2. I recommend that you approve these recommendations and forward them to the President of the University for further action.

*Carol A. Romano*

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

PROPOSED FACULTY RECOMMENDATIONS

May 17, 2019

BOR LIST

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
<b>Primary Appointment (Billeted)</b>		
<u>GRADUATE SCHOOL OF NURSING</u>		
HAMLIN, Lynette PhD	Professor With Tenure	Request for Tenure USUHS

## **TAB 17**

### *Faculty Appointments and Promotions 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>



28 March 2019

## MEMORANDUM FOR BOARD OF REGENTS

SUBJECT: Faculty Appointments and Promotions, Postgraduate Dental College

Attached is the recommendation made by the Postgraduate Dental College's Committee on Appointments and Promotions (PDC CAP) at a meeting on 25 March 2019. I request that you approve this recommendation and forward it to the President of the University for further action.

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

Attachments

PROPOSED FACULTY RECOMMENDATIONS

May 17, 2019

BOR LIST

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
<b>Primary Appointments (Non-Billeted)</b>		
<u>POSTGRADUATE DENTAL COLLEGE</u>		
<u>AIR FORCE POSTGRADUATE DENTAL SCHOOL</u>		
SCHWARTZ, Scott D.D.S	Adjunct Associate Professor Non-Tenure	Appointment/ JBSA Lackland, TX

## **TAB 18**

*Faculty Appointments and Promotions*  
*College of Allied Health Sciences*



**UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES**

COLLEGE OF ALLIED HEALTH SCIENCES  
2787 WINFIELD SCOTT ROAD, BLDG 2398  
JBSA FT. SAM HOUSTON, TEXAS 78234



29 March 2019

**MEMORANDUM FOR BOARD OF REGENTS**

**FROM:** Dean, College of Allied Health Sciences

**SUBJECT:** Faculty Appointment

Attached is the recommendation made by the College of Allied Health Sciences Committee on Appointment and Promotions of Faculty during a meeting convened on 7 March 2019. I request you approve this recommendation and forward to the President of the University for further action.

Mitchell J. Seal, EdD, MEd-IT, BSN, RN  
Dean, College of Allied Health Sciences

**Attachments**

PROPOSED FACULTY RECOMMENDATIONS

May 17, 2019

BOR LIST

DEPARTMENT/NAME	PROPOSED RANK	ACTION/CURRENT DUTY STATION
<b>Secondary Appointment (Billeted)</b>		
<u>COLLEGE OF ALLIED HEALTH SCIENCES</u>		
TINLING, Walter MPH, MA	Associate Professor Non-Tenure	Appointment/ USUHS

## **TAB 19**

### *University President Report*

# USU Board of Regents

## President's Report May 2019

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Richard W. Thomas, MD, DDS

*President*



*as of 7 October 2018*

# Issue Updates

- **President's Leadership Series**
- **NDAA 19**
  - Joint Education and Training Feasibility Study
  - Research and Development Feasibility Study
  - Defense Health Command
  - USU Alignment
- **Reform Management - IDA Study update**
- **Legislative Proposals (AHS and Endowments)**
- **Construction update**
  - Breezeway
  - Building F
- **Strategic off-sites**
- **Congressional visits (canceled)**
- **Upcoming retirements**





# Assistance from Regents

## Senior Leader Engagements

- Acting Deputy Secretary Veterans Affairs
- Mini Joint Civilian Orientation Conference
- MG Woodson promotion/change of command





# Questions & Discussion



*Gunpowder Field Exercise*



# Backup Slides



## Status

- 65% Design near completion
- Environmental Assessment in final review
- Single Phase Construction
- Funding documents being prepared for FY 21 PRESBUD submission
- Stakeholder support
  - Discussions underway for VA collaboration
- Proposed for construction award in Spring 2021
- Fully operational target of 2026 Academic Year

## Capabilities

- Consolidates 20% of current dispersed mission back to main campus.
- Flexible classrooms to support evolving educational innovation.
- Open laboratories and scientific neighborhoods foster collaborative research and improved business practices. Includes Bio-Safety Level 3 lab for emerging infectious disease research.
- Creates physical opportunity and flexibility to meet future mission needs for medical professionals and specialties, and for strategic consolidation and integration of Military Medical education and training.

## Challenges

- Balancing mission requirements with capabilities
  - Flexible design, standardized labs
- Concurrent construction with WRNMMC expansion
  - Mitigate impact on Community/traffic
  - Ensure security and safety
  - Developing construction site access solution
- Synchronization of base utility work
- Logistical support to USU and AFRRRI during construction
- Remote possibility of "Border Wall" impact

# New Research and Education Building

# Significant Events

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- Jan 15 – President’s Leadership Series – Female Leaders in the DoD
- Mar 14 – Packard Lecture – Dr. Doudna, Innovative Genetics
- Mar 18-22 – Military Field Practicum 201 (Operation Gunpowder)
- Mar 22 – “Innovations in Technology to Extend the Golden Hour” Conference
- Mar 26 – USU/VA Collaboration, Honorable James Byrne, Deputy Secretary VA
- Apr 16 – Mini Joint Civilian Orientation Conference
- Apr 16 – Amygdala conference
- Apr 16-18 – Federal Services Dental Educators Workshop
- Apr 16-18 – Indo PACOM Research Alliance for Military Medicine symposium
- Apr 22-23 – Egyptian Ministry of Defense visit to USU
- Apr 23 – USU Town Hall
- Apr 25-26 – Disasters and Health: State of the Science, NCDMPH
- May 3 – White Coat Ceremony
- May 6-12 – National Nurses Week

# Significant Events

---

- May 13-16 – USU Research Week
- May 15 – Research Week Presidential Lecture – VADM Bono
- May 15 – EMDP2 Graduation – George Mason University May 17 – Board of Regents Meeting
- May 17 – SOM Class of 2019 Awards Ceremony
- May 18 – Commencement – DAR Constitution Hall
- May 20 – EMDP2 Commissioning – Bldg. A
- May 20 – Warrior Transition Brigade Hosts GEN (ret) John Nicholson – 10:30 a.m. – Sanford Auditorium
- June 7 – Naval Postgraduate Dental School Graduation - WRNMMC
- June 8 – USU Dining Out – Wardman Park Marriott.
- June 10 – USU Education Day
- June 11 – USU Anatomical Donor Memorial Service – Sanford Auditorium



## **TAB 20**

### *Southern Region Report*

# Uniformed Services University of the Health Sciences Board of Regents

## Board Brief

Submitted by: Thomas W. Travis, MD, MPH Date: 17 May 2019

Title & Department: Senior Vice President, Southern Region Phone: 210-299-8501

Purpose: Information X Action         

Subject: Southern Region Update

### Significant Issues:

1. USU-South hosted a delegation from the Japanese National Defense Medical College, led by their Vice President, Dr. Kawamura. The delegation visited USU-South, ISR, and BAMC while in San Antonio. Their requests for the trip were primarily research-focused, so the itinerary was arranged to capture the research by several entities here. ISR and the 59<sup>th</sup> Medical Wing Chief Scientist briefed the visitors on their research efforts. Significant collaborative opportunities were discovered and we expect a return visit later this year to further those talks.
2. We have initiated a request for a temporary building in the Beach Pavilion quadrangle with the 502<sup>nd</sup> Air Base Wing at Ft Sam in order to house up to 30 personnel in the next 1-3 years. This exceeds the current projected growth of the Southern Region missions, but provides flexibility to the University as the discussion of the DHA acquisition of a larger building such as South Beach Pavilion continues (see next item). The space request is under review by JBSA authorities.
3. SVP-South participated in an update provided by the Director, AF Civil Engineering Center (AFCEC), regarding leased space and real estate requirements for DHA, USU, and others on Joint Base Ft Sam Houston. DHA, 5<sup>th</sup> Army, 502<sup>nd</sup> Air Base Wing were also present. One thing emerged that is significant for USU and DHA – the AFCEC Director is determined to get the South Beach Pavilion back in operation as his top priority. We reiterated our intent to occupy the building, whether it is leased to or owned by the DOD.
4. The Deans' Quarterly Council (DQC), co-chaired by SVP-South and SVP-West, continues to meet regularly on an as-needed basis. This venue has proven to be very valuable for the discussion of common issues among the Deans and for new academic programs. For new programs, DQC discussion is a required first step in the academic approval process and it is working well.

**Current and Future Concerns:** None

**Staffing/Funding/Budget Estimate/Fiscal Impact:** TBD

**Board Action Requested:** None at this time; info only



## **TAB 21**

### *Western Region Report*

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

## **Board Brief**

**Submitted by: Dr. William Roberts**

**Date: 3 April 2019**

**Title & Department: Senior Vice President Western Region Phone: 619-532-9522**

**Purpose:**

**Information: X**

**Action \_\_\_\_\_**

**Subject: In-Progress Review (MAR19-MAY19)**

**Significant Issues: None**

- Dr. Roberts has represented USU at three GO/FO/SES IPRs re NDAA 19 Section 711 Feasibility Study (Education and Training), chaired by Dr. Dave Smith, joining Army, Navy, USAF, DHA, JSS leadership and IDA team lead. Additional DoD stakeholders included FO/GO/SES Medical leadership for the Army, Navy, Air Force, DHA, and JSS. IDA has completed its study, and government participants, including USU, have submitted their feedback. Government portion of study is in early draft stages. Two principal issues: (1) MHS E&T organization of the future and USU's role; and (2) USU reporting relationship (current to HA vice to DHA).
- SVP - W and CoS continue work with USU-DHA J-7 Education and Training Senior Strategy Group, co-chaired by Dr. Roberts and Brig Gen Bannister. Areas of study include Continuing Education, Medical Modeling and Simulation, Distributed Learning, Faculty Credentialing, and Accreditation. Decision briefs pending.
- The Indo-Pacific Research Alliance for Military Medicine (IPRAMM) continued monthly teleconferences and will hold its next Strategic Partnerships Session at USU on 16-18 April 2019. Confirmed attendees include Dr. Terry Rauch, Acting Deputy ASD HRPO; RDML Louis Tripoli, INDOPACOM Surgeon; RADM Mary Riggs, DHA J-9; and Dr. Rachel Ramoni, VA Chief of Research. Primary intent is to connect USU, other DoD, non-DoD, and Indo-Pacific region researchers for potential collaboration opportunities. Additionally this will be made open to USU ALL, to include rapid fire research presentations by the USU Centers and each IPRAMM organization, followed by a networking luncheon where USU and IPRAMM researchers can connect.
- USU - W SVP has been invited to, and accepted, the following key speaking engagements: Presiding Officer and Guest Speaker, retirement ceremony IHO Col Rechell Rodriguez, USAF, MC (1 MAY); Keynote/Plenary Speaker iso Triservice Nursing Research Program Dissemination Course (2 MAY); Keynote Speaker, Professional Education Graduation Ceremony (MC, NC, MSC), Naval Medical Center San Diego (7 JUN). Several active duty and retired FO/GO anticipated to be in attendance.
- USU – W Research Manger visited Madigan Army Medical Center and Pacific Northwest National Laboratory in coordination with personnel from USU's American Genomic Center (TAGC) and Murtha Cancer Center to discuss increased collaboration in the region between IPRAMM partners and TAGC.

## **Support to Faculty**

- USU –W worked with SOM (Dept. of Surgery) in support of Adjunct Faculty appointment for Dr. Salagar (Chair, Scientific Review Committee, Dept. of Clinical Investigation, Madigan Army Medical Center)

### **Current & Future Concerns:**

N/A

### **Funding/Budget Estimate/Fiscal Impact:**

N/A

### **Staffing Impact:**

N/A

### **Board Action Requested:**

None

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## **TAB 22**

*Armed Forces Radiobiology  
Research Institute Report*

# Uniformed Services University Board of Regents

## Board Brief

Submitted by: CAPT John Gilstad, MC, USN Date: 19 April 2019

Title & Department: Director, AFRRI Phone 301-295-9213

Purpose: Information X Action         

Subject: Director's Report for AFRRI

### Top-line issues

1. Science Director position description and payband are established; recruiting this spring
2. USD(P&R) Studies and Analysis funding for tactical nuclear casualty stream modeling
3. Reactor return to operations delayed 6 mo but path clarified; NRC license amendment

### Functional Area Updates

#### Science:

AFRRI is working with SOM's departments of Surgery and Medicine to integrate sublethal radiation injury into established trauma and burn models. The overall objective of this new effort is to apply recent advances in trauma and burn care to the problems of medical support in a radiological/nuclear operational environment. Effective strategies for survivable combined injuries will be critical for saving lives and also for preserving combat effectiveness in tactical nuclear scenarios. Along the same line, AFRRI contributed to the USU/NIH conference "*Innovations in Technologies to Extend the Golden Hour*" on 21-22 March 2019, and is helping to plan a "Trauma Management in a Nuclear/Radiological Hazard Environment" summit with SOM, Joint Trauma System, and the JPC6 Combat Casualty Care Research Program.

Via AFRRI-JPC-7 partnership, AFRRI will start animal studies during this calendar year to test the first compound (Indralin) from the prioritized list of radiation countermeasure candidates as recommended by a consultant panel contracted from the National Strategic Research Institute. NSRI is a University-Affiliated Research Center based at the University of Nebraska. This testing is part of JPC-7's roadmap for bringing prioritized candidates to the point of hand-off to procurement.

**Radiation Facilities/Sources:**

NRC's April 2019 audit of AFRRI's safety assurance for the recently upgraded digital reactor control console concluded that a license amendment is necessary. This is an unanticipated delay that shifts the projected date for resumption of reactor operations to Dec 2019. Recent NRC regulatory action at three other research reactors provides examples and a pathway for successful license amendment.

The Nuclear Regulatory Commission's (NRC) Safety Conscious Work Environment (SCWE) follow-up assessment in April acknowledged progress in policy, training, and staff knowledge of safety reporting procedures. The inspection team will return to review AFRRI's SCWE-tailored climate survey and additional external survey, as well as further training AFRRI will implement on fostering a healthy reporting climate, before closing out their assessment.

**Radiation Safety**

The Health Physics Department and USU Contracting are finalizing the procurement of a new calibration irradiator, allowing for in-house calibration of nearly all radiation detectors and meters on board. The upgrade will produce annual savings of \$60K and give AFRRI the ability to support reimbursable radiation instrumentation calibration needs of other agencies in the National Capital Region including WRNMMC, Ft Belvoir, and Aberdeen Proving Ground.

**Veterinary Services:**

The merger of AFRRI and USU vivarium operations into a new Department of Laboratory Animal Research (DLAR) continues, concurrent with renovation of the AFRRI. Renovations are being coordinated with the DLAR standup. Occupancy is projected for June 2020. Veterinary support to active AFRRI research protocols continues in swing spaces at USU. An increase in research animal per diem charges across the entire University is anticipated as part of concurrent realignment of financing for husbandry and technical staff.

**Military Medical Operations:**

\$250K secured via the Studies and Analysis program in the Office of the Undersecretary of Defense for Personnel and Readiness will enable MMO to develop a time-phased casualty stream model representing the medical care requirement in the ten days following a tactical nuclear detonation, and feed these modeling data into various health service support configurations in the Joint Medical Planning Tool to explore choke points and mitigations for the mass casualty problem that a tactical nuclear detonation would produce. The model is built on geospatial data on Guam. An unclassified version is planned for training and tabletop use.

**Research Support Group:**

AFRRI's Institutional Animal Care and Use Committee (IACUC) successfully merged with USU's IACUC effective 1 April. RSG is working with DLAR to sustain AFRRI's Good Laboratory Practice program, designed to produce data that meet standards for FDA licensure.

## **TAB 23**

### *Faculty Senate Report*

# Uniformed Services University of the Health Sciences Board of Regents

## Board Brief

Submitted by: Sara Contente, Ph.D

Date: 19 Apr 2019

Title & Department: President, Faculty Assembly

Phone 301-295-3482

Purpose: Information X

Action         

Subject: Faculty Senate Report

### Significant Issues:

#### 1) Faculty Assemblies.

- a. The Winter Faculty Assembly was held on 13 February with the theme “Beyond Political Correctness: Communicating for Connection”. The presentation was made by Dr. Ellen Chung. This is a continuation of the Senate’s efforts to improve the University climate with respect to equity and diversity. Previous assemblies addressed raising awareness and empowering faculty. This assembly continued the dialogue and focused on connecting through communication, building on the civility discussion of the Fall assembly.
- b. A special April Faculty Assembly was held on 4 April in observance of Sexual Assault Awareness Month, whose theme this year was “I Ask”. This assembly, titled “Walk a Mile in My Shoes (Pumps)”, addressed the topic of gender harassment at work. This has often been trivialized by characterization as “not as bad as assault”. A panel of women representing junior and senior faculty, military and civilian, shared their stories about gender harassment in the workplace and its effects on them. There was good audience engagement and discussion about how gender harassment is affecting children and how we as mothers and fathers can combat this.
- c. The Spring Faculty Assembly will be held on 20 June and will be a business meeting with reports from the Faculty Senate Committees including the Comparability and Welfare Salary Comparability Report. The results of the upcoming senate elections will be announced.

#### 2) Senate Events and Awards.

- a. **Packard Lecture.** Jennifer A. Doudna, Ph.D., Executive Director, Innovative Genomics Institute, UC Berkeley/UCSF and internationally renowned professor of Chemistry and Molecular and Cell Biology at U.C. Berkeley, presented the 2019 Packard Lecture entitled “Rewriting the Code of Life: The CRISPR Genome Editing Future” on March 14 at 3 pm in the Sanford Auditorium. Dr. Doudna and colleagues are the 2012 discoverers of the CRISPR-Cas9 technology, which can be used to edit the DNA of any organism using an RNA- guided bacterial protein. The lecture was well-attended and well-received; Dr. Doudna met with a number of USU faculty during the day and future collaborations between her Institute and USU are envisioned.
- b. **Education Day** is scheduled for Monday, June 10 in Lecture Hall E1. This year’s theme will be “Reach Out and Teach Someone: Long-Distance Learning”, and will highlight the



innovations of highly accomplished educators throughout the National Capital Region. Morning speakers will be CAHS Dean Mitchell Seal (“Evidence-based Education in the Digital Age”) and Dr. Ronald Cervero, Professor of Medicine and Associate Director, Remote Campus Education (“Engaging our learners: The key to high quality (Distance) learning”). The "Innovation in Education" and "Teaching with Technology" Award competitions will take place in the afternoon, with finalist presentations, voting, and naming of the winners.

- c. **Carol Johns Medal.** COL Lisa K. Moores was selected as the 2019 winner, and was presented with the medal at the Winter Faculty Assembly on February 13.
- d. **Outstanding Staff Award.** Ms. Fatima Bashir (Department of Family Medicine) and Ms. Debra Weed (Department of Medicine) were selected from a group of eleven highly worthy staff members. Certificates were presented to the winners at Dr. Thomas’s Town Hall on April 23.

### 3) Committees.

- a. **Research Policy.** The Research Policy Committee continues to work closely with the Office of the Vice President for Research through faculty participation on the Animal Research Committee, which is addressing issues regarding the USU vivaria and animal research priorities during the construction and renovation phases.
- b. **Comparability and Welfare** The Task Force for Inclusivity presented a follow-up “Men in the #MeTooEra: Taking it to the Next Level” brown bag meeting on March 4. This meeting provided examples about the range of bias and what constitutes this range, and addressed power imbalances particularly regarding students and faculty. Participants had discussions around their tables, and then each table shared with the entire group.

**Funding/Budget Estimate/Fiscal Impact:** N/A

**Staffing Impact:** N/A

**Board Action Requested:** None

**Current & Future Concerns:**

**Funding/Budget Estimate/Fiscal Impact:** N/A at this time.

**Staffing Impact:** N/A

**Board Action Requested:** None

## **TAB 24**

### *Finance and Administration Report*

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

**Board Brief**

**Submitted by:** Walter W. Tinling

**Date:** 05 APR 2019

**Title & Department:** Vice President, Finance & Administration

**Phone:** 295-3083

**Purpose:** Information √

**Action**           

**Subject:** Resource Management Report

**Significant Issues:**

As of March 31, 2019, USU had executed 98.9% of its 1<sup>st</sup> and 2<sup>nd</sup> Quarter O&M resources. As FY2019 progresses, our resource execution and operating budget plans are closely aligned. At this time, we do not anticipate any notable shortfalls or excesses in O&M resources. A mid-year review with DHA and OSD(Comptroller) is scheduled on April 10, 2019. While a substantial discussion of Information Technology resources is expected due to the budgetary reductions resulting from DoD zero-based review and IT Reform efficiencies begun last year, the primary focus will be on the Service Component's .mil network. The review of USU's .edu network was deferred until this year, with analysis is currently underway.

We received our FY19 core RDT&E (\$64.7M) in late November 2018. Since then, another \$79M in RDT&E funding has been received (March 2019). We are actively working with the Principal Investigators and the Office of Research to ensure timely awards.

**Current and Future Concerns:**

Budget: Two areas of the budget, civilian pay and information technology, have been growing at rates faster than programmed funding allows. The shortfalls are largely due to external "efficiency" decisions that reduced programmed funding in spite of increased requirements (e.g., cybersecurity regulations). Offsets have been identified, mostly from under-executing programs, which are anticipated to allow for a balanced FY19 program.

Audit: The Kearney & Co. audit continues with USU receiving and responding to multiple sample requests and working to ensure our documentation supports the transactions. We are also providing periodic updates to OSD(HA) on the Ernst & Young review of USU interactions with HJF. After the review concluded, the topics were expanded to include USU's hiring authority as related to an Academic Health Center (pending legislative proposal); policy on gift funds (OGC has action); disposition of investment income derived from royalty distributions (pending DoD

OGC Fiscal review); and the HJF Council of Directors Membership issue (potential legislative proposal).

Programming: In the POM21-25 cycle, USU will pursue Change Proposals for “out-of-court” internal DHP funding realignments for: 1) FTE Rebalancing; 2) Increased CAHS METC programs; 3) Mountain and Wilderness Medicine Courses; and 4) DFAS cost growth.

**Funding/Budget Estimate/Fiscal Impact:**

New programs beginning in FY2019 including: Supplement Safety; General Surgery Maintenance of Expeditionary Currency; and the MHS Strategic partnership with the American College of Surgeons. In FY2019 RDT&E, the Cardiac COE program funding transitioned to USU (note, we also received \$2.5M of FY2018/2019 Cardiac research funds MRMC was unable to execute).

**Staffing Impact:**

USU continues to make progress in filling its critical hiring actions for new faculty and staff positions.

**Board Action Requested:**

No Board action requested at this time.

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**"For Information Only"**  
**COMPARISON OF ANNUAL APPROPRIATIONS**  
**As of 31 March 2019**  
**'(\$000)**

	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>
<b>Object Class</b>						<b><u>Funded to</u></b>	<b><u>Plan</u></b>
<b>O &amp; M</b>							
Personnel Compensation	\$ 63,432	\$ 63,771	\$ 67,844	\$ 65,312	\$ 64,167	\$ 67,307	\$ 68,640
Personnel Benefits	\$ 18,421	\$ 18,447	\$ 19,950	\$ 18,914	\$ 19,082	\$ 20,087	\$ 20,408
Severance Pay	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Travel	\$ 8,005	\$ 7,362	\$ 7,010	\$ 8,447	\$ 8,515	\$ 8,756	\$ 8,958
Transportation	\$ 14	\$ -	\$ 32	\$ 255	\$ 261	\$ 266	\$ 271
Rent, Comm & Utilities	\$ 2,534	\$ 1,408	\$ 965	\$ 1,223	\$ 1,250	\$ 1,277	\$ 1,303
Printing	\$ 70	\$ 41	\$ 35	\$ 26	\$ 26	\$ 27	\$ 28
Other Services	\$ 31,914	\$ 35,641	\$ 38,196	\$ 34,875	\$ 34,879	\$ 40,350	\$ 41,072
Supplies	\$ 6,908	\$ 7,220	\$ 7,896	\$ 9,845	\$ 11,053	\$ 10,750	\$ 10,795
Equipment	\$ 5,933	\$ 4,253	\$ 6,459	\$ 5,874	\$ 6,734	\$ 6,463	\$ 6,639
<b>Land and structures</b>	\$ 19,884	\$ 8,257	\$ 8,208	\$ 18,403	\$ 16,957	\$ 12,013	\$ 12,147
Grants/Stipends	\$ 55,032	\$ 61,685	\$ 54,884	\$ 60,035	\$ 68,714	\$ 66,716	\$ 52,092
<b>Financial Transfer</b>	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<b>Claims</b>	\$ 3	\$ -	\$ 12	\$ -	\$ -	\$ -	\$ -
<b>Total O &amp; M</b>	\$ 212,150	\$ 208,085	\$ 210,051	\$ 223,209	\$ 231,638	\$ 234,012	\$ 222,353
<b>Procurement</b>	\$ 17,782	\$ 3,350	\$ 5,898	\$ 3,524	\$ 246	\$ -	\$ 435
<b>Carryover</b>	\$ -	\$ -	\$ 6,148	\$ 6,440	\$ -	\$ -	\$ -
<b>RDT&amp;E, DHP</b>	\$ 35,768	\$ 56,916	\$ 56,651	\$ 76,718	\$ 95,807	\$ 77,774	\$ 70,794
<b>RDT&amp;E, GDF</b>	\$ 116,580	\$ 31,818	\$ 65,161	\$ 50,181	\$ 74,803	\$ 65,605	\$ -
<b>JIF - NO YEAR FUNDS</b>	\$ 11,562	\$ 991	\$ -	\$ -	\$ -	\$ 1,988	\$ -
<b>GRAND TOTAL</b>	\$ 393,842	\$ 301,160	\$ 343,909	\$ 360,072	\$ 402,494	\$ 379,379	\$ 293,582

## **TAB 25**

### *Information and Education Technology Report*

# Uniformed Services University of the Health Sciences Board of Regents

## Board Brief

Submitted by: Timothy J. Rapp

Date: 12 Apr 2019

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. DoD IT Reform Efforts -

- a. BLUF - USU remains eager to take advantage of any DoD IT reform efforts that do NOT deprecate existing capabilities, increase costs, or negatively impact the accreditation requirements of degree granting academic organizations.
- b. BACKGROUND: USU is included as part of broad DoD IT Reform efforts which are focused on gaining efficiencies in order to provide additional resources to the warfighters. Example IT Reform initiatives include: consolidation of IT & Business Systems, Cyber responsibility consolidation, centralized IT commodity purchasing, standardize on one NIPR/SIPR network, rationalize business (HR, FM, Contract) systems to include Learning Management Systems (LMS) and related Training & Education support contracts, reduce to a single Authorizing Official (AO), move to a single 4th Estate (4E) Enterprise Collaboration and Productivity Suite, and centralize wireless device management and patch management at the 4E and/or DoD CIO level.
- c. POTENTIAL IMPACT: This could represent a significant risk to USU's ability to meet our 10 USC 104 and 34 CFR 602.16-20 obligations, maintain external accreditations from bodies representing each of our thirty-three (33) educational programs, and maintain access to academic pricing.
- d. UPDATES SINCE LAST BOARD MEETING:
  - i. A site visit was made to The Middle State Commission on Higher Education (MSCHE) in Philadelphia, PA confirming that any IT Reform implementation (not just policy) that negatively impacts the quality of education, academic rigor, or student support services (Standards III, IV, and V) would be cited during a re-accreditation visit.
  - ii. Previous draft policy statements like "...no further investments in the development or modernization of Learning Management will be supported during the timeframe this memorandum is in effect [thru 2024 and including renewal of licenses and sustainment costs]." would have significantly hindered the teaching faculty's ability to keep content current and consequently impact the quality and rigor of academic programs. Fortunately, this has not gone to final signed policy as a result of feedback from multiple DoD academic organizations.

April 2019

- iii. All IT purchases (e.g. hardware, software, consulting, etc) now require approval from the DoD CIO's office prior to the obligation of funds. The exceptions are: (a) break/fix procurements that must be resolved within 48 hours, (b) GPC purchases below the micro-purchase threshold, (c) IT funded thru grants or SBIR programs, and (d) consumables and peripherals. Turn-around has been quick with little impact.
- iv. All Training & Education related procurements must now go through OPM/USALearning for right of first refusal. This has been much longer than the 30 day advertised timeline.
- v. Migrating USU's .mil network and services to MilCloud as recommended would have resulted in a significant increase in costs compared to what we are currently paying. Consequently, USU has been excluded from the 4E .mil consolidation efforts until DISA is able to provide DNSaaS and DaaS. At this time, USU's .mil network will move under DISA control.
- vi. DOD CIO has decided to exclude the .edu networks (USU, NDU, and DoDEA) from the 4th Estate IT Optimization efforts; however, as of Feb 2019, there is now a DoD-wide .edu/academic IT consolidation effort underway which includes the Academies, TRADOC schools, etc. A copy of the most recent memo to DoD CIO in this regard can be found at [ENCLOSURE 1](#).
- vii. The next steps for the DoD .edu IT Reform is an extensive data call that we anticipate receiving in the early May 19 timeframe.

## **2. Two Bullet Updates:**

### **a. San Antonio Migration to USU's .edu Network**

- WHAT - Migration of San Antonio Bldg 2398 to USU's .edu network
- STATUS - The USU .edu circuit into San Antonio Bldg 2398 went live and all assets, end user devices, and personnel were migrated off of the NEC .mil to USU's .edu network the 1st QTR FY19 improving bandwidth and service availability. This is currently a single path back to USU and will not have additional redundancy until MAX/Internet2 is fully implemented and we can leverage TXLearn in San Antonio.

### **b. AFRRI Data Center Closure**

- WHAT - Closure and/or consolidation of USU data centers as part of the Data Center Optimization Initiative (DCOI) which is required under the Federal Information Technology Acquisition Reform Act (FITARA).
- STATUS - The AFRRI data center was closed in December 2018 and is the final data center programmed for closure as part of a USU multi-year consolidation effort. NOTE: DoD IT Reform is going to relook at all data centers for potential closure regardless of prior DCOI actions.

### **c. Service Desk Metrics (CY 2018)**

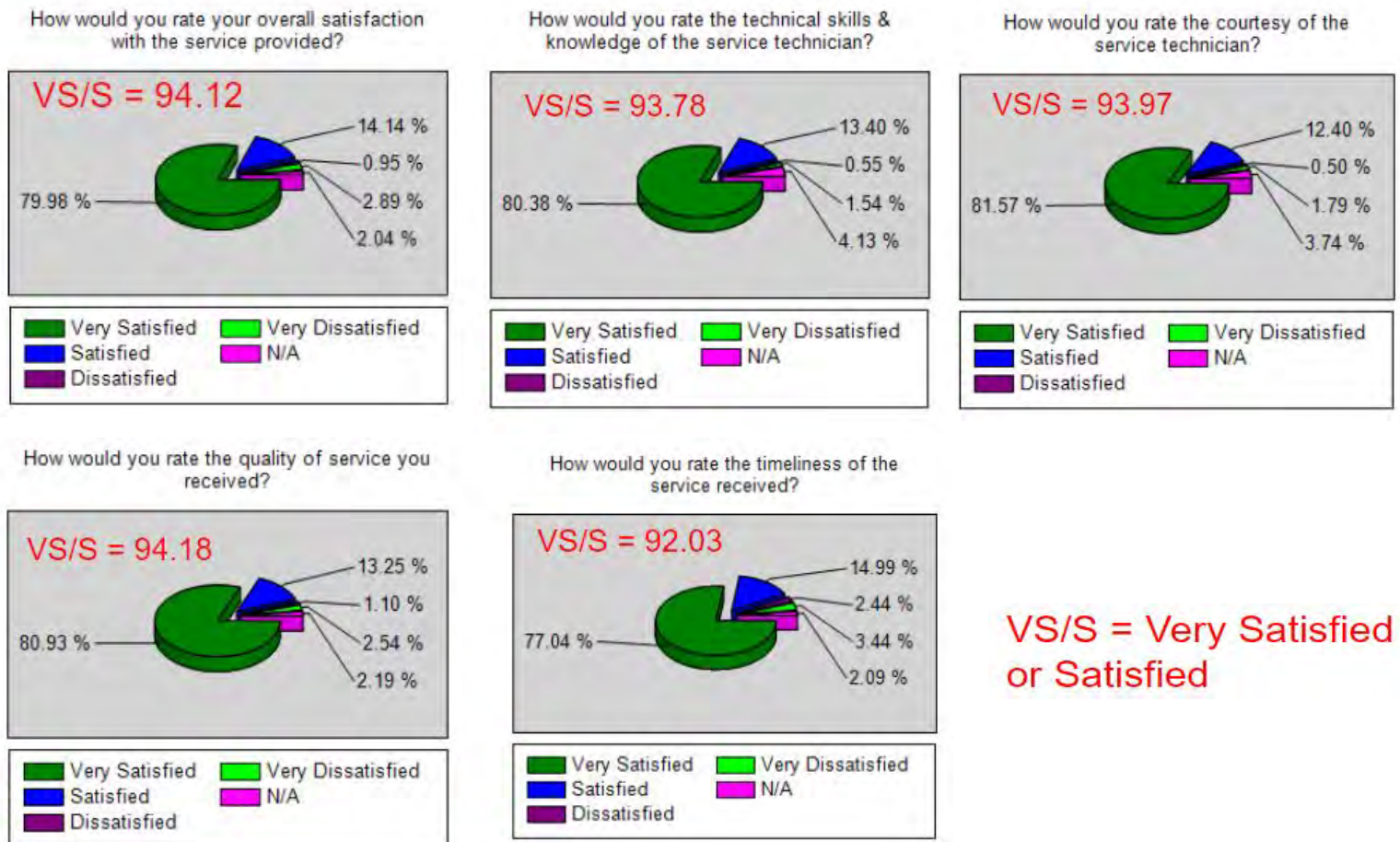
- WHAT - At the close of each calendar year the Service Desk evaluates support ticket metrics to identify opportunities for process improvement, individual

**April 2019**



training, self-help support needs, customer service training, etc.

- STATUS - In CY 2018 over 13,000 support tickets were processed. Customer satisfaction is measured via a survey for every ticket in the areas of: (1) Courtesy, (2) Technical Skill & Knowledge, (3) Quality of Service, (4) Timeliness, and (5) Overall Satisfaction. Customers were either “Satisfied” or “Very Satisfied” 92-94% of the time.



#### d. .edu Network Availability (Oct 2012 - Dec 2018)

- WHAT - Annual Assessment of .edu Network Availability
- STATUS - USU's .edu network has been available 99.94939% of the time since Oct 2012.

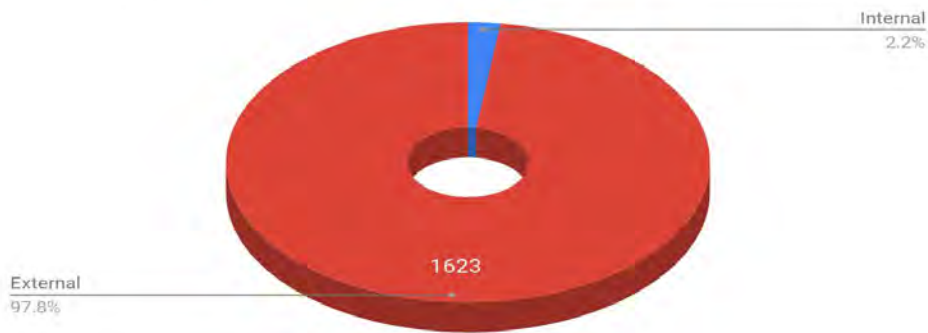
##### Services Depreciated

22 Instances where services were deprecated since Oct 2012  
 10478 Total deprecated minutes  
 4501 Minutes from internal USU sources (e.g maintenance, misconfiguration, user error, etc)  
 5977 Minutes from external sources (e.g. localized power failure, hardware failure, etc)

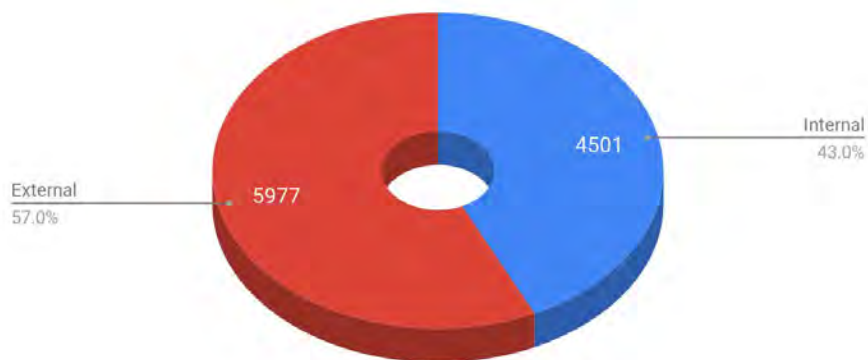
##### Service Outages

13 Instances where services were completely out since Oct 2012  
 1659 Total outage time in minutes  
 36 Outage minutes due to internal USU sources  
 1623 Outage minutes due to external sources (e.g. power failure, Verizon outage)

### Service Outages



### Service Deprecation



Availability %	Downtime per Year	Downtime per Month	Downtime per Week
99.9% (three nines)	8.76 hours	43.2 minutes	10.1 minutes
99.95%	4.38 hours	21.56 minutes	5.04 minutes
99.99% (four nines)	52.6 minutes	4.32 minutes	1.01 minutes
99.999% (five nines)	5.26 minutes	25.9 seconds	6.05 seconds
99.9999% (six nines)	31.5 seconds	2.59 seconds	.0605 seconds

Average polling interval for monitoring - 5 minutes  
 Even superhuman operations people can't be alerted and take action in under 5 minutes.  
 One outage per year could drop service level to three nines or worse.

**3. Board Action Requested:** None.

**April 2019**





# UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

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



MEMORANDUM FOR DEPARTMENT OF DEFENSE CHIEF INFORMATION OFFICER  
(ATTN: MR. DANA DEASY)

THROUGH: TOM MCCAFFERY, PRINCIPAL DEPUTY ASSISTANT SECRETARY OF  
DEFENSE FOR HEALTH AFFAIRS

SUBJECT: Department of Defense EDU Information Technology Reform Initiative

I have significant concerns regarding the Department of Defense (DoD) Information Technology (IT) rationalization initiative for the .edu domain and for efforts to standardize and consolidate IT across all DoD degree granting universities and activities.

DoD IT Reform discussions to date have included initiatives such as consolidation to a single .edu network, centralization of software and hardware procurements, consolidation of AOs and removing their current alignment to the mission owner, operational/administrative control of IT personnel to include Cyber and Research, Development, Test, and Evaluation support, and consolidation of learning technology services to a 'Whole-of-Gov' Learning Ecosystem. While there may be some value and small cost saving borne from the establishment of a DoD-wide .edu Consortium, I concur with my Navy counterparts (Enclosure 1) that the current DoD IT Reform "initiative is considered unnecessary, counterproductive and disruptive" and brings with it far more risk than benefit in the areas of academic accreditation, costs, and deprecated capabilities.

ACADEMIC ACCREDITATION IMPACTS: To meet our obligations under 10 USC 104 and 34 CFR 602.16-20, Uniformed Services University of the Health Sciences (USU) is required to maintain fifteen (15) external accreditations from bodies representing each of its thirty-three (33) educational programs. Accreditors require that the University have autonomy in managing its staffing, research, acquisition, and the use of technology. The Middle States Commission on Higher Education (MSCHE), the central accreditation for the University itself, specifically requires that, *"Even when supported by or affiliated with government, corporate, religious, educational system, or other unaccredited organizations, the institution has education as its primary purpose, and it operates as an academic institution with appropriate autonomy."*

The University has been cited in the past, due to conflicting DoD policy, for lacking the "means, authority and responsibility, assigned or delegated," to conduct operations as its leadership deems necessary. MSCHE, just one of our accrediting bodies, have recently confirmed that any reform efforts which negatively impact program quality, rigor or student support services would be cited in future site visits. The proposed consolidation approach directly abridges this autonomy and authority, and may represent an existential threat to USU programs.

COST IMPACTS: There are a significant number of MHS, DoD, and Congressionally directed reform efforts currently underway and there is a cost to doing each one. The focus should be on efforts with the biggest possible return on investment. The extensive data calls and coordination required by multiple reform efforts in a short time frame violates the tenant of "Do No Harm" for organizations that are already operating in a 98 percent Run to 2 percent

Grow/Transform environment. In addition, any DoD academic organizations have already worked to achieve significant IT efficiencies by leveraging state, regional, and national academic consortiums which have more buying power and offer significant discounts beyond those available through DoD or Federal contract vehicles.

Yet reform related directives such as DoD Directive 8470.01E, September 6, 2018, now require the use of Core Enterprise Technology (CETA) agreements (para 1.2 c) if a product used by the enterprise is covered by an existing CETA. This eliminates academic pricing which can be 19x cheaper and does NOT accomplish the intent of providing the best value to the government. At best it represents an unnecessary administrative acquisition delay. Figure 1 illustrates a small sample of the existing efficiencies which the University enjoys relative to existing DoD Blanket Purchase Agreements, Government-Wide Acquisition Contracts (GWACs), and CETAs. Similar academic discounts exist for items such as commodity or common use network access at 16 percent of existing GWAC costs and hardware replacement costs with up to 30 percent discounts.

Manufacturer	USU Price	ESI Price	USU Cost as % of ESI Cost
Microsoft Desktop	\$56.52	\$105.26	53.70%
Microsoft VDA	\$28.78	\$71.32	40.35%
Microsoft Project	\$5.44	\$103.97	5.23%
Adobe Creative Cloud	\$45.00	\$773.29	5.82%
Adobe Captivate	\$2.50	\$419.83	0.60%

**Figure 1 - USU vs. Enterprise Software Initiative Costs for COTS Software Products**

While the USU budget is inconsequential to the overall DoD IT budget, this effort also represents a critical threat to the University's ability to conduct research and operate and innovate as it has with the APOLLO/Moonshot Research and the American Genome Center, which is typically the #1 to #3 most efficient genome processing center in the world each quarter.

Participation in a DoD-level .edu consortium to guide future efficiencies as a community makes sense, but current reform initiatives underway risk bringing more harm than benefit to higher education degree granting organizations.



Richard W. Thomas, MD, DDS, FACS  
President

Attachment:  
As stated (Available Upon Request)

**TAB 26**

*Brigade Report*



# **Uniformed Services University Board of Regents**

## **Board Brief**

**Submitted by: CAPT Sean Hussey**

**Date: 17 May 2019**

**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:

### **Significant Issues:**

#### **1. BRIGADE OPERATIONS CELL GROWTH**

- Lines of Effort include establishing Common Operating Picture (COP), force management, training, and operational planning
- Assumed control of Emergency Management Program for University
- Integrating and collaborating with all Schools, Centers, and outside agencies to serve as central hub for Brigade

#### **2. KEY LEADER TURNOVER**

- COL Catherine Kimball-Eayrs selected as Commandant, School of Medicine; arrives early June
- LTC Craig Budinich selected as Commandant, Graduate School of Nursing; arrives early May
- LT Rob Murray selected as HQ Company Commander in January 2019
- JAG and Chaplain turning over this summer

#### **3. ORGANIZATIONAL STRUCTURE CHANGES**

- Professor of Military Science recognized as dedicated billet in Brigade; to be filled by LTC Jake Bustoz
- Established Company Commander and Senior Enlisted Leader positions for the Graduate Education Office (GEO) and EMDP2 program. LT Ilja Khavrutskii and TSgt Ashlyn Howard assumed role in January 2019
- Brigade Manpower specialist moved to USU Manpower Directorate; Brigade requesting civilian position for military assignments specialist

#### 4. BRIGADE COMMUNICATIONS INITIATIVES

- Communications working group established, led by Chaplain Mack with members from across Brigade; tasked with improving Brigade communications
- Initiatives include: Brigade app and standing interactive kiosks across university; University strategic communications team briefed
- Check-in kiosk established within Military Personnel Office following Lean Six Sigma survey of MILPO
- Monthly awards ceremony, weekly CO/CMC walk rounds

**Current & Future Concerns:** As Above

**Funding/Budget Estimate/Fiscal Impact:** Communications initiatives may require funding to support. Brigade app \$4k, kiosk project appx \$25K.

**Staffing Impact:** As above for Manpower assignments specialist

**Board Action Requested:** None

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## **TAB 27**

*Hébert School of Medicine Report*



# Uniformed Services University of the Health Sciences Board of Regents

## Board Brief

Submitted by: Arthur L. Kellermann, M.D., M.P.H. Date: May 2019

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

Purpose: Information X Action         

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

### Notable Achievements:

**USU School of Medicine faculty, in conjunction with the USU/HJF joint technology transfer team, received the Federal Laboratory Consortium's Award for Excellence in Technology Transfer.** The award recognizes the extraordinary work of **Christopher Broder, PhD**, Chair of Microbiology and Immunology for his work on developing a monoclonal antibody to treat infections caused by the highly lethal Nipah and Hendra virus. This is USU's sixth award in the past seven years – an extraordinary achievement!

**Professor Chris Broder (MIC) and a consortium of universities awarded \$24.5 million over 5 years to advance treatments for Nipah and Hendra viruses.** The award is a Center of Excellence for Translational Research (CETR) grant supported by the National Institute of Allergy and Infectious Diseases (NIAID), part of the NIH. The consortium includes USU, Profectus Biosciences, Inc., Vanderbilt, Mapp Biopharmaceutical, Inc., and UTMB.

**Professor Ann Jerse (Vice Chair, MIC) awarded up to \$10.9 million over 5 years to advance promising Gonorrhea vaccine candidates for preclinical development and clinical trials.** The Gonorrhea Vaccine Cooperative Research Center (GV CRC) she leads is multi-institution consortium that includes USU, Emory, UNC, Duke, University of New Mexico, Oregon State, UVA and the FDA. Her award is supported by the National Institute of Allergy and Infectious Diseases (NIAID), part of the NIH.

**USU the first site in the country to teach the American Red Cross' new "Advanced Life Support" (ALS) course.** In FEB 2019, 178 inter-professional students were trained in the initial resuscitation of patients presenting with acute coronary syndromes, rhythm disturbances, cardiac arrest, acute stroke, and post-resuscitation care. The course uses a blended learning approach with online modules and hands-on skills stations. Leadership skills such as critical thinking, closed-loop communication, and team dynamics were emphasized. Our students received cards for recertifying in Basic Life Support (BLS) and their new certification in ALS. Brig Gen Bannister (DHA/J7) and Dr Paul Cordts (DHA Medical Affairs) took the course with our students. Instructors came from USU, WRNMMC, Joint Base Andrews, Ft. Detrick, and BAMC;

all will bridge from AHA to the ARC's version of ALS. Going forward, the MHS plans to use the ARC to support all of its life-support training.

**“Operation Gunpowder” (Medical Field Practicum 201) offered for the second time this past March.** MFP 201 was completely redesigned last year to teach prolonged field care, forward surgical care en-route crucial care and leadership of small teams. After an initial day of hands-on workshops, small groups, and equipment familiarization, each cohort of students traveled to Camp Fretterd, MD, where they treated a simulated critically-wounded patients in the field and a safe house (see photo) for extended periods of time and then through various phases of evacuation. Experienced military surgeons taught Forward Resuscitative Care (FRC), and members of USAF Critical Care Air Transport Teams (CCATTs) taught them key principles of Joint En Route Care in “Flying ICUs.” For the first time, GSN CRNAs participated. Instructors came from USU (MEM, SUR and GSN), Ft. Hood, and Camp Lejeune. All field instructors were combat-experienced physicians, PAs, CRNAs, and Special Forces Medics drawn from all 3 services and multiple bases. The Special Operations Medical Association (SOMA) has invited the Course Director, **MAJ Grigory Charny (MEM)**, to share highlights of Gunpowder at SOMA's upcoming annual meeting in May 2019.



Operation Gunpowder: March 2019

**USU/Walter Reed Department of Surgery pioneering new approaches to evaluate and strengthen the skills of expeditionary surgeons.** The American College of Surgery's “Advanced Surgical Skills Exposures for Trauma” (ASSET) course, which was largely developed by and piloted at USU in 2008, has become the standard pre-deployment cadaver training for both the US military and several NATO partners. Recently, in partnership with the ACS Committee on Trauma and the MHSSP-ACS, the ASSET course was revised and expanded to include the majority of life-saving surgical skills required of expeditionary surgeons. On April 1-2, USU SUR faculty helped teach a revised two-day skills assessment and improvement course using selectively perfused fresh human cadavers and high-fidelity simulators at the University of MD. With improvements to USU's Anatomy Training Lab, we anticipate bringing this military relevant course back to campus in future years. (Appendix A).

**SoM publishes first comprehensive telehealth curriculum.** The inaugural offering of this 9 hour interdisciplinary course was held in February 2018 during B3, which opens the post-clerkship phase of the School of Medicine's “Molecules to Military Medicine” curriculum. Led by **Lt Col Chris Jonas (FAP)** the course was developed and provided by the the SoM and GSN as well as telehealth experts from Old Dominion University, Defense Health Agency, Fort

Belvoir, Walter Reed and TATRC. The course was offered in B3 again this past February. The *Academic Medicine* article can be found at:

[https://journals.lww.com/academicmedicine/Abstract/publishahead/An\\_Interdisciplinary\\_Multi\\_Institution\\_Telehealth.97654.aspx](https://journals.lww.com/academicmedicine/Abstract/publishahead/An_Interdisciplinary_Multi_Institution_Telehealth.97654.aspx).

**SoM's Global Health Distance Learning (DL) Program a resounding success.** Launched July 2016, the program has enrolled 283 students from all four services spread across six continents. Another 145 have been accepted for an August 2019 start. The Program, which is accredited by the Middle States Commission on Higher Education, answers DODI 2000.30's directive to "Enhance DOD's awareness of GHE"<sup>1</sup> by offering nine DL courses taught by 36 USU faculty. Forty-five students have completed the full certificate so far. Students are applying credits earned toward their applications for the Air Force IHS (International Health Specialist) SEI (special experience identifier); the Navy AQD (additional qualification designator); and the Army Veterinary Corps SI (skill identifier) for GHE. The students have given the Program high marks and demonstrate competence on objective metrics such as written exams, papers, online forums, and live interaction by video teleconference. (Appendix B)

**LCDR Wizard Seide selected as the U.S. Public Health Service's "Junior Physician of the Year."** LCDR Seide currently serves as the SoM's PHS Company Commander and Deputy Commandant. She was selected for this honor by the U.S. Surgeon General's Physicians Professional Action Committee, and will receive the award at the USPHS Conference in May.

**SoM Hosts University Health and Wellness Fair:** In March, the **Student Wellness Advisory Board**, in collaboration with the Consortium for Health and Military Performance (CHAMP), hosted a first ever campus-wide Health and Wellness Fair for all faculty, staff, and students. The goals of the Fair were to raise awareness of USU and NSAB health and wellness resources, provide health and wellness education, and positively impact morale and welfare. Each "vendor" promoted their programs and resources by hosting an educational, hands on activity. There were lectures, meditative walks, cooking demonstrations, fitness experiences, therapy dogs, and resources on a range of topics including sleep deprivation, connecting on campus, mental health, and study skill support. The event was a great success!

**HM2 Sully H. W. Bush appointed to the SoM Faculty.** At the Health and Wellness Fair, HM2 Sully H. W. Bush, the Service dog previously assigned to former president George H W Bush, was appointed a Clinical Instructor in the SoM's Department of PM&R and the Department's Wounded Warrior Service Dog Program. His return to WRNMMC has been recognized on the Defense News Site: <https://www.defense.gov/explore/story/Article/1712807/thatll-do-sully-thatll-do/>

### **Discussion Item:**

**Planned cuts to military health manpower will challenge military GME and UME – including the USU School of Medicine.** The DoD plans to sharply reduce the size of uniformed MHS workforce. Reports suggest that proposed reductions, which will affect all 3 services and all ranks, will cut the MHS by roughly 17,000 - 19,000-plus uniformed positions, including

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<sup>1</sup> DODI 2000.30. Section 1.2.b.

military physicians and nurses. <https://khn.org/news/military-doctors-in-crosshairs-of-a-budget-battle/> These cuts will fall most heavily on Ob-Gyn, Pediatrics, Pathology, Radiology and other medical and surgical subspecialties that have been deemed less “combat-relevant,” while certain specialties such as General Surgery, Trauma Surgery and Emergency Medicine may grow. In addition to reducing and reshaping the health force, the services have signaled their intent to more closely control their uniformed positions, rather than assigning them to MTFs as has been done up until now. This may require the DHA to backfill thousands of uniformed positions with GS civilian employees or contractors.

1. **Will the workforce reductions harm military medical education?** The faculty, students and leadership of the SoM are deeply concerned that large scale cuts, particularly those that will affect military health manpower at MTF’s that host GME programs, will substantially harm GME and UME in the MHS. Since these programs generate the future workforce on which the U.S. military depends, this could have far-reaching consequences. If the MHS has to meet an expanding set of missions with a substantially smaller workforce, it may be compelled to prioritize operational and day-to-day clinical demands over generating the future force. When the DHA loses thousands of uniformed positions, it will either have to backfill them with civilian hires (a costly and uncertain proposition at best – many MTFs prohibit clinical teaching by contract providers). If it can’t replace these positions, our MTFs will have to further curtail their delivery of services and leak more care to civilian providers, raising the DoD’s purchased care costs. Either way, the longstanding quality of military medical education will be compromised, and active duty providers will have fewer opportunities to sustain the knowledge, skills and abilities they need to provide expert care to Warfighters.
2. **The changing number and mix of GME positions is also worrisome.** Although numbers have not yet been released, it appears that residency positions in such specialties as pediatrics, Ob-gyn, pathology, radiology and even anesthesiology may be substantially reduced. Some subspecialty fellowships may be eliminated entirely. Once an accredited residency program is closed, the decision cannot be easily undone – it can take a decade or longer to reopen a closed program. Also, under ACGME rules, many residency programs require the presence of other residency programs to ensure an appropriate education. If the projected, large-scale reductions in military health manpower degrade the quality of military GME and UME and/or sharply limit the options available to aspiring military physicians, the pipeline that has sustained the MHS since the end of the Vietnam War could be disrupted. In that case, the MHS will quickly find itself unable to meet current operational demands, much less the expended mission sets it may be asked to undertake. We already see worrisome signs that attrition of the experienced MHS providers could increase due to the accelerated pace of deployments and fewer practice and teaching opportunities. Given the high salaries available in civilian healthcare, it is unlikely that the MHS will be able to replace them with direct accessions. Finally, several of the specialties proposed for steep cuts have considerable military relevance. For example, a recent Quadrennial Defense Review made humanitarian assistance and disaster response (HADR) equal in importance to combat operations. During OEF/OIF/OND, pediatricians performed capably in countless combat deployments and they are essential for DoD HADR missions. With growing numbers of young women volunteering for military service, experts in obstetrics and gynecology are needed to ensure their health and readiness and essential for HADR missions.

3. **Those who think that the military can outsource its GME to civilian programs should think again.** In a DEC 2018 telephone call with Dr. Thomas Nasca, CEO of the ACGME, he made it clear that existing civilian GME programs lack the capacity to absorb a large influx of military residents. In fact, more than 2,000 *civilian* allopathic and osteopathic medical school graduates are currently unmatched *each year*. If current trends continue, the existing gap between total grads and GME slots will widen, reaching 9,000 unmatched graduates or more by 2029. This is being driven by unbalanced growth in UME (expansion of MD class sizes and a striking increase in the number of Osteopathic medical schools) without matching growth in civilian GME. Dr. Nasca notes that in recent years, the ACGME has come to understand the critical importance of health system culture to shaping the practice behavior of residents, particularly during their first few years of GME. “Military GME is unique, and it is uniquely valuable to our country,” Dr. Nasca said. “We need you.”
4. **UME is also a concern.** Currently, WRNMMC is our main teaching hospital. The facility’s close proximity to our campus, the homes of our students and its excellent GME programs make it a great place for military GME. In fact, like many MTFs, WRNMMC also host many HPSP students and even takes civilian students from neighboring med schools. If it loses as many as a 1,000 uniformed billets, we will not be able to rotate many students there. Unfortunately, the prospects of finding alternate teaching slots in the DC area are grim, given competition from 5 other med schools in the area. This challenge is nationwide. Last May, an AAMC report entitled, “*Growth in Medical School Enrollment and Related Clerkship Sites Availability*” documented growing concerns about clerkship opportunities. According to the AAMC, “*Results show that first-year enrollment at U.S. medical schools has increased by 29% since 2002, and is expected to continue to grow in future years. With this increase, the demand for clinical training experiences has also increased. Results show that in 2017, 85% of respondents were concerned or very concerned about the number of clinical training sites, which is higher than previous years.*” [Emphasis added] Respondents noted growing competition for clinical training sites from DO-granting schools and non-US-based medical schools, as well as PA and nurse practitioner programs. **If USU is forced to cut the number of students who train at WRNMMC and other MTFs, we will struggle to find alternatives in the civilian world.**  
<https://www.aamc.org/download/489152/data/may2018growthinmedicalschoolenrollmentandrelatedclerkshipsitesa.pdf>
5. **Our prospective students are nervous.** Although this issue emerged relatively late in the recruiting season, USU and HPSP applicants have lit up social media with their concerns. If projected cuts in MHS residency spots go forward and student clerkships are curtailed, many applicants may conclude that their chances to get into a high-quality residency program will be better in the civilian world. If our applicant pool declines in future years, we will either be forced to admit less qualified students or reduce the number we accept. Either outcome will be bad for the MHS and the Warfighters we serve.

#### **Action Item:**

We urge the Board of Regents to consider strategies to mitigate these risks.

### **Dean's Office Updates:**

**COL James Mancuso, MD, MPH, PhD, selected as our next Chair of Preventive Medicine and Biostatistics (PMB).** He will succeed **CAPT Mark Riddle**, who retires from the Navy later this spring. COL Mancuso has held a wide breadth of military public health roles, including Chief of the Department of Preventive Medicine at Fort Stewart, Chief of the Division of Epidemiology for Army Public Health Command-Europe, Director of the Department of Emerging Infectious Diseases at the US Army Medical Research Unit in Kenya. He deployed to Iraq twice (1990-1 and 2003), to Pakistan for the 2005 earthquake relief efforts, to Japan in 2011 for the response to the Fukushima nuclear event, and most recently to Liberia in 2015 to support Ebola response efforts. In 2017, he was appointed as Chief Consultant to the Army Surgeon General for Preventive Medicine, serving as the SG's chief advisor on military Preventive Medicine issues and mentor for junior physicians in his specialty. COL Mancuso obtained his MD and PhD from USU and his MPH from Johns Hopkins. He previously directed USU's Division of Tropical Public Health.

**CDR Arlene Hudson, MD, selected as our next Chair of Anesthesiology.** She will succeed **CAPT Dale Szpisjak**, who retires from the Navy in April. She received her bachelor's and master's degrees at Boston U, then worked for the Dept. of Public Health in Augusta, Maine where she authored several reports and publications including a JAMA report on the emerging public health threat of cryptosporidiosis. In 1994, she received a direct commission with the Navy as a Naval Environmental Health Officer. After separating to work for a time at the RAND Corporation, she reentered the Navy as a USU medical student (Class of 2002) and graduated AOA. She did her Anesthesiology residency in the NCC and holds subspecialty credentials in cardiothoracic anesthesia and Advanced Perioperative Transesophageal Echocardiography. After deploying to Djibouti, Africa 2007-2008, she returned to WRNMMC, where she chaired the Pharmacy and Therapeutics Committee for six years. She joined USU ANE in 2012 where she led the military's only MOCA course and initiated several high-impact research projects.

### **New Graduate Education Leaders Selected:**

After successfully handling a series of programmatic challenges, the leadership of graduate education at USU have our interdisciplinary PhD and Clinical Psychology programs on a strong footing. The number of applications received this year is the highest in USU's history, and our grad students are amazing. We are deeply grateful for their contributions and commitment. Earlier in this year, this group took stock and each decided, for various reasons, that it was the right time to hand over their programs to a new grad ed team and return to the faculty as researchers, mentors and advisors. Rather than convene multiple searches to fill these positions, we organized an exceptionally strong **Search Committee** to concurrently search for replacements for all of the positions. This allowed them consider not just individuals, but potential teams and it allowed candidates to apply for more than one role.

The GEO Search Committee was chaired by **Dr. Chou-Zen Giam** and included **Denes Agoston, Irwin Lucki, Laura Cutway, Brian Schaefer, Jessica Servey, Nathan Tagg, Marian Tanofsky-Kraff, and Netina Finley**. Three USU grad students, **Peter Attilio, Bradley Bauman and Mary Brockett** ensured that their colleagues' perspectives were heard. After interviewing

each candidate and receiving input from USU faculty, students and staff, they prepared a detailed analysis of each candidate's strengths. Following University commencement and the conclusion of the AY, the following individuals will assume leadership of GEO and our graduate programs:

- **Associate Dean for Graduate Education and Director, GEO**
  - **Saibal Dey, Ph.D**, will succeed **Greg Mueller, PhD**.
- **Assistant Dean for Graduate Education:**
  - **Andrew Snow, Ph.D.**, will succeed **Brian Cox, Ph.D.** and
  - **Cara Olsen, PhD** will succeed **David Cruess, PhD**.
- **Director, Interdisciplinary Program in Emerging Infectious Diseases**
  - **Douglas Scott Merrell, PhD**, will succeed **Chris Broder, PhD**
- **Director, Interdisciplinary Program in Molecular and Cell Biology**
  - **Tharun Sundaresan, PhD**, will succeed **Mary Lou Cutler, PhD**
- **Director, Interdisciplinary Program in Neuroscience**
  - **Kimberly Byrnes, PhD** will succeed **Sharon Juliano, PhD**
- **Director, Graduate Program in Medical and Clinical Psychology**
  - **Tracey Sbrocco, PhD** has already succeeded **Andrew Waters, PhD**
- **Director, Graduate Programs in Preventive Medicine and Biostatistics**
  - **Cara Olsen, PhD** will succeed **David Cruess, PhD**

While these process was moving forward, **Dr. Tomoko Hooper** and **Dr. Gary Gackstetter**, longstanding directors of PMB's MPH program, announced that they intend to retire this summer. Interim leadership has been identified to ensure program continuity, and searches for their successors will begin soon.

**Other transitions include:**

- **Associate Dean for Student Affairs**
  - **Col Pamela Williams**, Assistant Dean for Clinical Sciences, will succeed **COL Lisa Moores** when the latter retires from the Army later this spring.
- **Assistant Dean for Clinical Sciences**
  - **LTC Ashley Maranich**, an outstanding educator from Tripler Army Medical Center, will fill the role being vacated by **Col Pamela Williams**
- **Assistant Dean for Faculty Development**
  - **COL Jessica Bunin**, another outstanding educator from TAMC, has succeeded **LTC Josh Hartzell**, who PCS'd to WRNMMC to direct the NCC's Internal Medicine Residency program. COL Bunin will also direct the NCC's Critical Care Fellowship.

We also have outstanding selectees for:

- **Associate Dean for Medical Education** (succeeding **Dr. William Gilliland**) and
- **Associate Dean for Assessment and Professional Development** - a new position that will serve both medical and graduate students. Both selections will be announced soon.



## **Other Dean's Office News:**

### **Medical Student Recruitment and Admissions:**

- **Military Medicine Recruiting Summit held.** On Thursday, 11 APR, USU hosted a major summit on campus for recruiters from the Army, Navy, and Air Force Health Professions Scholarship Programs (HPSP); pre-health advisors and faculty from local undergraduate universities; USU medical students; members of our admissions Committee, our diversity office and USU Office of Recruitment and Admissions. The goal of the meeting is to review, revise, and refine USU's strategic initiatives for the next 3 years and ensure that our efforts are closely coordinated with and reinforce those of our HPSP partners.
- **Manpower Reduction Concerns.** We are worried that the planned reductions in overall manpower and sharp reductions if not elimination of certain specialties or subspecialties within military medicine may diminish our attractiveness to recruits. On the recruiting trail, we have already encountered the rising anxiety of prospective applicants over these changes. In the absence of concrete information student blogs and other social media forums are posting rumors and worst-case scenarios that are probably inaccurate, but cannot be refuted. Even our current medical students on clerkships and electives are hearing rumors from concerned and/or disgruntled active-duty physicians.
- **Admissions Update.** USU received 3,126 applications during this cycle – only slightly less than last year. The Class of 2023 is shaping up well, but we may see a lot of movement on our wait lists as we approach the April 30 deadline when applicants with more than one acceptance choose their school. At that point, we'll find out if news of impending reductions to the MHS workforce diminished their interest in military medicine.
- **EMDP2:** Twelve EMDP2 students who applied in the current cycle have already been accepted to USU. In addition, some in this cohort have been accepted to Harvard, UNC-Chapel Hill, Wake Forest and other highly regarded med schools. Five EMDP2 students remain on our hold list. We expect more slots will open near the April 30th deadline.

### **Medical Student Affairs:**

#### **Class of 2019**

- Eleven senior students participated in the civilian match (one in the San Francisco Match and 10 in the NRMP). This group exceeded the national average with 100% match rate. The majority matched to their first choice programs across the following specialties: ophthalmology, emergency medicine, Med/Peds, Anesthesia, Radiology, General surgery & orthopedics.
- As noted in our Feb (unpublished) BOR report, the Class of 2019 achieved a 100% pass rate on Step 2CK and an average score of 243. This is a school record! Fifty-five scored 250 or above. This is further evidence of the success of our Molecules to Military Medicine curriculum, and the high quality of clinical teaching our students receive in MTFs across the country.

#### **Class of 2020**

- The class has just completed the Bedside, Bench and Beyond (B3) curriculum and have begun their early senior rotations. Ninety-seven percent of the class have taken USMLE step 1. The first time pass rate, based upon the scores available for 94%, is 97% with a mean score of 229.



- Twenty-seven students were elected to Alpha Omega Alpha (AOA); 26 students were inducted into the Gold Humanism Honor Society.

#### **Class of 2021**

- The class of off to an outstanding start on the clerkship phase of their curriculum. They have just completed their first track of the clerkship year. As a class, they are focusing on peer-led wellness. They've established a peer-initiated monthly class newsletter focusing on strategies to strengthen their wellness and build resiliency.

#### **Class 2022**

- The class is in the midst of their 4th module in the pre-clerkship period and are completing the lottery for their clerkship year. They are looking forward to their Summer Operational Experiences (SOE).
- Six SOM and GEO student members of the Global Health Interest Group won 2nd place in the Emory Global Health Case Competition outperforming schools such as Yale, Cornell, Brown, Vanderbilt and the University of Toronto. Only the University of Melbourne did better. We ascribe that to their Aussie accents and distance traveled.

#### **National Capital Consortium (NCC):**

- **ACGME Duty Hour limitations are a major concern.** The ACGME has had duty hour rules in effect since 2002. This winter, in response to resident suicides and growing reports of burnout, the ACGME signaled it will be taking a much tougher stance going forward, with zero tolerance of violations of residents and fellows working more than 80 hours/week. Even one report by a resident on the yearly ACGME resident survey could result in a citation. Repeat offenders could put their program and Institution in jeopardy of accreditation. To counter this threat, we must increase our oversight of programs and ensure that all residents report their duty hours daily, so we can quickly spot and address violations.
- **Impending manpower cuts and potential reductions in residency programs pose a huge challenge.** At the same time we are address resident duty hours, the Services are expected to cut residency training slots (more in some programs than other) and sharply reduce active duty faculty positions. We have made it clear that our residents cannot increase their workload without violating the ACGME's "zero tolerance" policy on duty hours. If the hospitals cannot hire enough contract or GS providers to compensate for the large reduction in uniformed providers, our MTFs will leak even more beneficiaries to the network. This could make it difficult for residents to reach the minimum case numbers they need for board certification. It not inconceivable that the cuts may force the closure of one or more MTFs in the NCC. Preliminary figures suggest that FBCH and WRNMMC may have to absorb disproportionate cuts, since they are no longer considered to be "Army" or "Navy" facilities.

#### **Graduate Education Office (GEO):**

- **Applications to the USU's interdisciplinary PhD programs are at an all-time high.** The total (N=527), surpassed the all-time high established in 2018. In addition, the declination rate for 2019 offers hit an all-time low of 19%, We believe that our new recruitment strategies, including more student involvement in the effort, are reaching applicants who are a better fit for USU.

- **Charting the Future of Graduate Education at USU.** On May 1 and 2, three nationally acclaimed leaders will visit campus to assess our graduate education programs and offer ideas for how we might optimize graduate education at USU. The team will be led by **Dr. Alan Leshner**, CEO Emeritus of the American Association for the Advancement of Science (AAAS) and Chair of the NASEM Committee on Graduate STEM Education in the 21<sup>st</sup> Century. The other two team members are **Dr. Michael Gottesman**, Deputy Director of Intramural Research at the NIH and **Dr. Emily Miller**, Associate Vice President for Policy at the Association of American Universities (AAU).
- **Graduate Student Appreciation Week:** For the first time ever, a week-long series of events were held in mid-April to celebrate the many contributions and talents of our graduate students make to USU and science in the DoD. The activities, hosted by the Graduate Education Office, the Student Wellness Advisory Board, and a small working group of students, staff, and faculty, include a career symposium, art, fitness, and social activities, a lunch with the Dean, a BBQ, and a **Three Minute Thesis Competition**. While most of the activities are for graduate students, all students are invited to the BBQ to promote cross-program cohesion.

#### **Office of Associate Dean for Research:**

- **Centers Framework Signed.** President Thomas has signed a PPM (Presidential Policy Memo) articulating a framework for defining what constitutes a USU interdisciplinary research center. Credit for this effort goes to the Council of Center Directors, chaired by **Col Todd Rasmussen**. In the coming days, we anticipate receiving an application from USU's **Health Professions Education program** to be designated an interdisciplinary center

#### **Office of Academic Affairs:**

- **Col (Ret) Arnyce Pock honored by the American College of Physicians.** The Air Force ACP Chapter has formally named its USU Medical Student Award the "Arnyce Pock Exceptional Medical Student Award." In announcing the award, ACP Governor COL Matthew B. Carroll, MD, FACP, noted, "It is an honor to recognize Colonel (ret) Arnyce Pock with this award. Early in my career as an Internist in the Air Force I remember her leadership, passion for Internal Medicine, and how approachable she was. She has been a sought-after mentor to numerous company and field grade officers/Internists and very successfully guided our chapter in the first part of this century during challenging times. Thank you, Arnyce, on behalf of the chapter for all you have done!"

#### **Good News:**

##### **Medicine (MED):**

- **Dr. Carl June**, a former USU faculty member (MED) and a pioneer in the field of immunotherapy, gave a seminar at USU and Grand Rounds at WRB on January 18. He is most widely known for the development of chimeric antigen receptors (CAR) T-cell therapy for cancer. His work led to the development and commercialization of the first FDA-approved gene therapy.
- **COL Brian Hemann**, USU Associate Professor, WRNMMC, Chief of Medicine, and a staff cardiologist, received the statewide Distinguished Citizen OTY Award at the Oregon Peace

Officers Association Awards Banquet. While on leave last August, he rescued an elderly woman at risk of drowning following a boating accident in the Deschutes River.

### **Military and Emergency Medicine (MEM):**

- All 6 students, from the Class SOM 2019 that attended the US Army Flight Surgeon program graduated. Of note, **2LT Victoria Hall was the Honor Grad** and **2LT Kyle Warren was named to the Dean's List**. An Air Force student, **2ndLt 2Thomas Powell**, also graduated from the program. With only 2 additional weeks at USAF Flight Surgeon School, he will be awarded both sets of wings. In the past 3 years, 22 USU med students have earned their wings; 3 were named Honor Grad. **MAJ Grigory Charney (MEM)** directs this program.
- **SSgt Allen Dwyer** was named the CY18 Q4 Defense Health Headquarters Air Force Element NCO of the Quarter, and **HM1 Sherika Smith** was named the USU CY18 Service Member of the Year. Both are **Tactical Instructors of MEM** who, among many other duties, facilitate learning experiences for USU students and directly teach key lifesaving and TCCC skills in classroom and field settings.
- The 3rd Annual Healthcare Leader and Leadership Education and Development Summit took place on April 11-12. Participants shared opinions, experiences, and current practices. The focus for this year's meeting was be "Leadership Development across the Healthcare Professional Life-Cycle," and the guest speaker was **Dr. Jonathan Woodson**, former Assistant Secretary of Defense for Health Affairs

### **Neurology:**

- The Department has secured a \$2.1M JIF (Joint Incentive Fund) proposal to facilitate tele-neurology services between DOD/NCR and VA/VISN5. This initiative will improve sub-specialty neurological care for veterans and improve resident and fellow training in neurology.

### **Obstetrics and Gynecology**

- **Col Catherine Witkop** (PMB and OBG) and collaborators at UCSF and Nitidbit, LLC, launched a new contraceptive decision aid mobile app titled Decide and Be Ready (Sponsored by: Defense Health Horizons/DHA). The app is a patient-facing tool designed to facilitate shared decision making between women and their providers, and includes unique military-relevant considerations for servicewomen. It can be downloaded for free for Apple and Android devices. Development of the App and pilot testing were supported by USU's *Defense Health Horizons*
- **Col (S) Barton Staat, USAF, MC** (OBG Department Chair) was awarded "Mentor of the Year" by the American College of OB/GYN (ACOG). He was the only OB/GYN in the Armed Forces to receive this national award given by the young members of ACOG and presented by the national president Dr Lisa Hollier.

### **Pediatrics (PED):**

- **COL Patrick Hickey** (PED Department Chair) leads the **IDCRP**-supported Deployment & Travel Medicine Knowledge Attitudes Practice & Outcomes Study (KAPOS). Under a CRADA in development between USU, HJF, and 60 Degrees Pharmaceuticals, KAPOS will serve as the study to conduct post-licensure monitoring of adverse effects for the anti-malarial tafenoquine. This task is on the DOD Priority list for FDA/CBER.

### **Physical Medicine and Rehabilitation (PMR):**

- **Paul Pasquina, MD** (PMR Chair) represented the NCAA-DoD CARE consortium at the Pink Concussions Meeting: Explorations in Female Military Brain Injury Summit, at the James Haley Veterans' Hospital in Tampa, FL. Dr. Pasquina presented findings to date on the differences between sexes in concussion, with special attention to the Service Academies.

### **Preventive Medicine and Biostatistics (PMB):**

- **LT Maggie Johnson** (USU MPH, 2018) won first place at the US Naval Aeromedical Conference in Pensacola, FL for her MPH project titled: "New ACC/AHA Blood Pressure Guidelines and the Operational Readiness of Naval Aviators and Aircrew." Her coauthors included **Amanda Banaag, Col Karyn Condie, CDR Tammy Servies, and Dr. Tracey Koehlmoos**. The research is being used to update of the Navy's Aeromedical Waiver Guide.
- **Dr. David Brett-Major** and colleagues published "Consequences of Pathogen Lists: Why Some Diseases May Continue to Plague Us" in *The American Society of Tropical Medicine and Hygiene*. The article makes two key points: (1) We need to be developing infrastructure and capability to respond to diseases through principles of infection and outbreak control rather than hoping to come up with a vaccine for every infection, (2) We need to focus on agile technologies that can quickly develop a treatment or prevention for disease X.
- **LCDR Nicholas "Cody" Schaal** (Occupational and Environmental Health Sciences Division [OEHS]) was selected as the Navy's Industrial Hygiene Officer of the Year for 2018. His selection for this very competitive award is a testament to his outstanding administrative, academic, and research expertise, as well as his strong organizational skills, impressive leadership, and mentorship abilities.

### **Psychiatry (PSY):**

- The Amygdala, Stress and PTSD Conference was held on April 16 with the theme of "Risk, Resilience, and Recovery." Now in its 14th year, the conference continues to bring together scientists and clinicians working toward solving the biological basis of stress, fear, and posttraumatic stress disorder.

### **Surgery (SUR):**

- **Distinguished Professor J. Leonel Villavicencio passed away on 14 JAN, 2019.** He came USU in 1982 to establish the Department of Surgery along with Professors **Harris B Shumacker, Jr., Charles G. Rob. and Norman M. Rich**. He was a 1951 graduate of the distinguished Escuela Medico Militar (Mexican Military Medical School) and received surgical training in Chicago and Boston. A leader in venous disease, he established a collegial relationship with Dr. Rich before coming to USU. His world-wide reputation through the American Venous Forum, the Society for Vascular Surgery and many other Professional organizations helped us create Vein Clinics in our local Military Hospitals. He also led the charge in establishing many of USU's International Surgical exchanges; relationships that continue to this day with the support of Amistad and Cervantes Awards which allow USU students to rotate in Mexico. After retiring in 2006, he continued to serve as a Distinguished Professor. He will be greatly missed.
- The Office of the Undersecretary of Defense for Personnel Readiness recently released and updated policy guidance that incorporates KSA's (core knowledge, skills and abilities) into

readiness reporting systems. USU has played a leading role in the KSA process effort, working with DHA and Services, including devising metrics and objective assessment.

#### **Consortium for Human and Military Performance (CHAMP)**

- CHAMP Director, **Dr. Patty Deuster** served as a guest speaker at the SecDef's Close Combat Lethality Task Force's inaugural Human Performance Workshop on January 23.

#### **Defense and Veterans Center for Integrative Pain Management (DVCIPM)**

- **Dr. Kevin Galloway** was one of two speakers at a seminar sponsored by AMSUS on 14 FEB, 2019. His talk was entitled, DoD/VA Pain Management: Strategies and Collaboration in the Midst of the National Epidemic of Opioid Overuse, Misuse and Diversion”

#### **Infectious Disease Clinical Research Program (IDCRP)**

- IDCRP's Pragmatic Assessment of Influenza Vaccine Effectiveness in DoD (PAIVED) study enrolled over 1,400 volunteers at 5 MTFs in less than 2 months. This USU-led collaboration with DHA's Immunization Healthcare Branch and MHS and Interagency partners will provide key data to inform influenza vaccine development and ultimately assist in Force Health Protection.
- The 10th annual **Trauma Infectious Diseases Outcomes Study (TIDOS)** Investigators' Meeting was held at USU 13-15 March, bringing together stakeholders and co-investigators from USU, MTFs, DoD Laboratories, the VA, and other partners to review findings and plan new analyses needed to inform care of infectious complications of combat trauma.
- **Professor David Tribble** and TIDOS collaborators contributed a chapter to a Congressional report developed by the DoD's Blast Injury Research Program.

#### **Murtha Cancer Center Research Program (MCCRP):**

- MCCRP Director Craig Shriver successfully presented to DHA's new leadership structure and subsequently received approval for a UFR for \$2.1M in FY20 to replace the MHS's outdated tumor registry software with a commercial product.
- The Applied Proteogenomics Organizational Learning and Outcomes (APOLLO) research program held its semi-annual retreat on March 22 with over 100 members from DoD, VA, and NCI in attendance, including the NCI Director and Acting FDA Commissioner Dr. Norman Sharpless

#### **Val Hemming Simulation Center**

- **USU-Naval Postgraduate School (NPS) Healthcare Simulation Certificate Program.** In 2012, USU and the NPS embarked on a collaborative project in healthcare simulation. Combining NPS' 20 years of experience offering certificate, Masters, and PhD level instruction in modeling and simulation (M&S) with USU's in-depth knowledge of healthcare and healthcare simulation for training, the two programs jointly created the U.S. military's only **Healthcare Modeling and Simulation Graduate Certificate Program**. To date, 6 classes have produced 79 graduates, representing the USN, USA, USAF Medical Corps, Nurse Corps and Medical Service Corps (see Appendix C).

# Appendix A

## Obtaining and Maintaining Surgical Skills Currency and Competency for Expeditionary Surgeons: Progress Report

### Background:

- The surgical skill set required of deploying military (“Expeditionary”) surgeons is broad based and transcends traditional specialty training
- Current peacetime practice and residency training does not provide adequate exposure or experience with the majority of skills needed
- Current pre-deployment training courses are highly variable, lack standardization, and lack robust assessment of desired skills
- The USU Walter Reed Surgery led Clinical Readiness Program (KSA) supported by The Military Health System Strategic Partnership American College of Surgeons (MHSSP-ACS) has led a tri-service effort to codify and recommend a process for ensuring that expeditionary surgeons have the knowledge, skills, and abilities (KSAs required to competently care for combat casualties.
- The Clinical Readiness Program has identified a defined skill set (derived from Clinical Practice Guidelines and deployment logs) that expeditionary surgeons must have competence with when deployed to a Role II facility (Table 1).

AIRWAY/BREATHING	TORSO TRAUMA	TORSO TRAUMA (CONT)
Trauma Airway Management	Pelvic Fracture Care:	Wartime Vascular Injury:
<b>CRITICAL CARE</b>	- Pre-peritoneal Pelvic Packing	- Exposure Neck Vessels
Advanced Vascular Access	- Proximal control Iliac vessels	- Exposure Vessels Chest
<b>HEAD AND SPINE INJURY</b>	<b>E-FAST and DPL</b>	- Exposure Vessels of Abd
Neurosurgical Management	<b>Damage Control Surgery ABD:</b>	- Exposure of pelvic vessels
Management of Severe Head Injury	- Medial visceral rotations	- Exposure of Ext vessels
<b>MILITARY OTHER</b>	- Supraceliac Aorta control	- Vascular Shunting
<b>Military Working Dogs:</b>	- Expose/Control Aorta	
- Iv Access	- Expose/Control IVC	<b>TRANSFUSION &amp; RESUSCITATION</b>
- Emergent Airway	- Mgt Liver Trauma	REBOA for Hemorrhagic Shock
- Manage traumatic injuries	- Mgt Splenic Trauma	Resuscitative Thoracotomy
<b>Ocular/Adenexal Injuries:</b>	- Mgt hollow viscous injury	
- Lateral Canthotomy	- Mgt kidney Injury	<b>WOUND &amp; AMPUTATION/FX MGT</b>
- Enucleation/Evisceration	<b>Damage Control Surgery Chest:</b>	- Mgt of War wounds: Debridement
<b>Urologic Trauma:</b>	- Lateral Anterior Thoracotomy	- Compartment Syndrome/ Fasciotomies
- Mgt Renal Trauma	- Clamshell Thoracotomy	- Amputation
- Mgt Ureteral Trauma	- Median Sternotomy	- Burn Care Escharotomy
- Mgt Trauma to Bladder	- Manage Cardiac injury	- High Bilat Amputations
- Mgt Trauma to Scrotum	- Mgt Intrathoracic vessels	- Extremity Trauma – ex fix
<b>OB/GYN Emergencies:</b>	- Mgt Pulmonary Injuries	
- Emergency C-section	- Resect clavicle/expose SCA	
- Emergency Hysterectomy	<b>Damage Control Surgery Neck:</b>	
- Post-partum Hemorrhage	- Expose/Control Neck Vessels	
- Ectopic Pregnancy	- Expose Esophagus in Neck	
	- Expose Trachea in Neck	
	- Expose SCA above clavicle	

Table 1: Skills required of expeditionary surgeons. Skills highlighted are contained in the expanded ASSET Expeditionary Course

- The MHSSP-ACS Surgical Skills Committee was tasked to develop a standardized validated curriculum to train (re-train) and assess the skills detailed in Table 1.
- The American College of Surgery's Advanced Surgical Skills Exposures for Trauma (ASSET) course, which was largely developed (85% effort) by and piloted at USU in 2008 has become the standard pre-deployment cadaver training for both the US military as well as several NATO partners.
- In partnership with the ACS Committee on Trauma and the MHSSP-ACS, The ASSET course was revised and expanded to include the majority (highlighted) of the skills listed in Table 1.

#### **ASSET Expeditionary Course Pilot:**

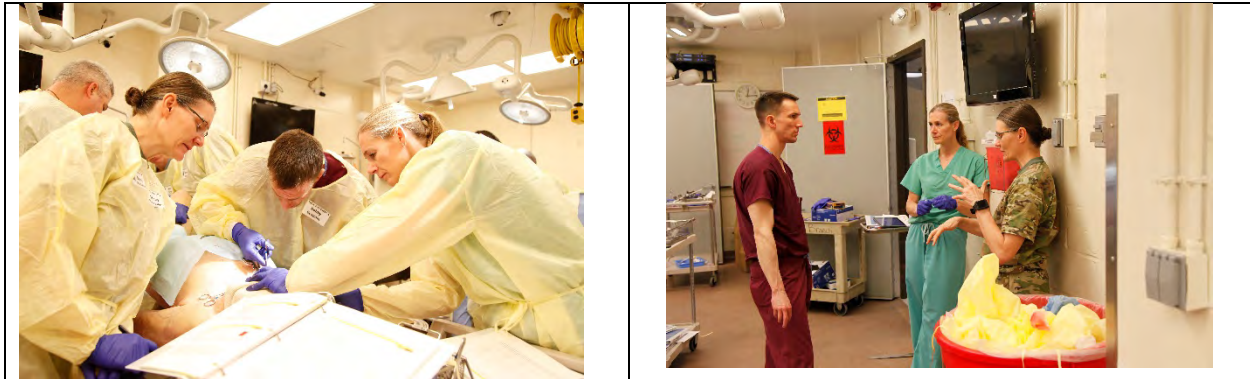
A two-day skills course using selectively perfused fresh human cadavers and selected high fidelity simulators conducted on April 1-2, 2019 at the University of Maryland as follows:

- Students: 12 military (non-trauma) surgeons comprised of 6 senior residents and 6 attending surgeons (2-10 years out of residency). 5 of the 6 attending surgeons have been previously deployed, all at least twice.
- Faculty: 12 very experienced active duty, reserve and civilian trauma surgeon ASSET instructors. 11 of the 12 had significant deployment experience. Four sub-specialist expert faculty to include an Ophthalmologist, Neurosurgeon, Orthopedic Surgeon, and a Gynecologist/Obstetrician were used to teach specialty specific skills.
- Day one of the course was a formative day during which the skills deemed essential for expeditionary surgeons were taught using a case based scenario presentation followed by a review of the anatomical features, a video of the correct steps of the procedure. The students were then tasked to complete the skill in a time pressured mentored practice in a one to one faculty to student fashion with ongoing assessment.

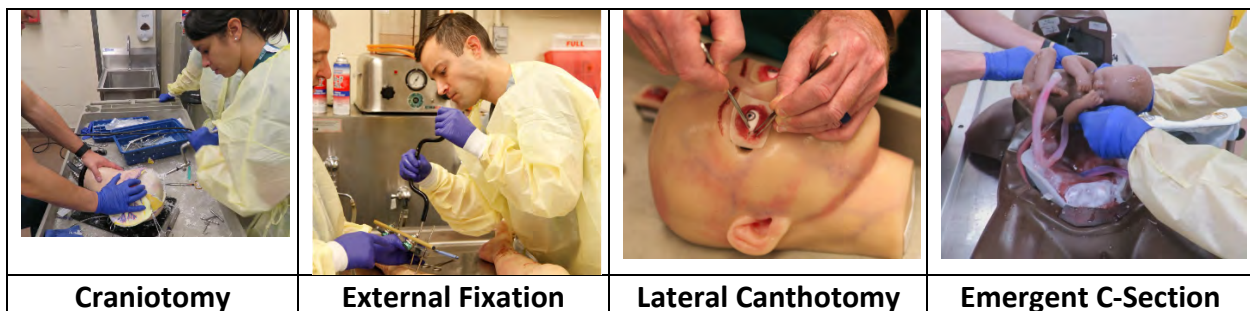




- At the conclusion of Day 1, the faculty provided individualized feedback to each student emphasizing specific skills to concentrate on for day two.
- On day 2 the students were individually tested/provided feedback using an expanded metric checklist while performing several of the day 1 skills on a new fresh, selectively perfused cadaver by 2 trauma surgeon faculty that they were not exposed to on day 1.



- Additionally, the students rotated in groups of 2 to specialty skills stations (4) using advanced simulators to provide students familiarity with Damage Control Neurosurgery, Ophthalmology, Orthopedics, and Emergency Obstetrics and Gynecology.



#### Results of ASSET Expeditionary Pilot Course:

- A 40-question pre-test given prior to the course had an average score of 28% (range 18-40%)
- A 40-question post-test given immediately following the course had an average score of 85% (range 77.5-97.5%)
- Selected comments from students:
  - "I think the value of this course and the way it was run was superb. To have that many faculty allowed me to walk away super confident with those procedures. The repetition was important in reinforcing the procedures."
  - "This is far superior to any other pre deployment training for my last three trips across the pond" ... "repeating the procedures on day 2 in a testing format was very helpful"

- “I think we need to have every surgeon taking or teaching this course every 2-3 years”
- Selected comments from faculty/observers:
  - “I was impressed with the engagement of the students, a level not often seen with other courses.”
  - “This expanded course will markedly improve deploying surgeons ability to deal with the realities and magnitudes of actual combat injuries”
  - “Should be a pre-requisite for deployment and a requirement on a periodic basis (maybe every 2 years)”
  - “The evaluation portion worked well to see if someone can actually do these exposures safely and efficiently under a little bit of stress”

#### **Next Steps:**

- Formal feedback from students and faculty (underway)
- Refine schedule based on feedback to improve efficiency and flow of both days
- Further develop and validate the metrics used in the course
  - Work with psychometrician
  - Refine and expand tablet based evaluation
- Standardize the equipment list needed to conduct the course to enable promulgation to additional sites
- Bring course to USU with goal of conducting 1-2 Beta course by end of this FY

# Appendix B

# USU's Global Health Distance Learning Program

## Update and Opportunities

**BLUF:** The Global Health Distance Learning Program has demonstrated that USU can provide top-quality education to students around the world. The Program's success in the academic domain should now be leveraged to advance the DoD's goals related to improved business efficiency, interagency collaboration, and international partner engagement.

**Background:** The Global Health Distance Learning Program launched July 2016 and has enrolled 283 students from all four services spread across six continents. Another 145 have already been accepted for an August 2019 start. The Program, fully-accredited by Middle States Commission on Higher Education, is answering DODI 2000.30's directive to "Enhance DOD's awareness of GHE"<sup>2</sup> by offering nine courses taught by 36 USU faculty. It is designed to benefit students interested in taking a single course, as well as those who wish to pursue the full 18-credit "Graduate Certificate in Global Health and Global Health Engagement." Forty-five students have completed the full certificate so far. Students are applying credits earned toward their applications for the Air Force IHS (International Health Specialist) SEI (special experience identifier); the Navy AQD (additional qualification designator); and the Army Veterinary Corps SI (skill identifier) for GHE. The students have given the Program most favorable reviews and have demonstrated competence on objective metrics to include written exams, papers, online forums, and live interaction by video teleconference.

**Opportunities:** Three opportunities the program should now pursue are inter-scholastic collaboration between USU and service war colleges, interagency collaboration with other US government agencies involved in global health, and educational partnerships with partner-nation militaries.

The Naval War College, Air War College, and the Army War College each offer degree programs by distance learning to U.S. military, PHS, and select civilian students. Military studies and national security strategy are the major foci of each of those programs. Despite broad recognition of global health engagement as a critical element within the security domain, not one of those institutions offers its students the opportunity to take coursework in global health or global health engagement. With full appreciation for the resources required to offer coursework in this domain, it is unfortunate but understandable that they do not. USU is now prepared to fill this gap for the war colleges in a revenue-neutral way. USU can take advantage of economies-of-scale and offer enrollment in USU GH and GHE courses to students enrolled in the war colleges. War college students would simply need to transfer the credits earned at USU to their degree-granting institution.

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<sup>2</sup> DODI 2000.30. Section 1.2.b.

Interagency collaborations – with USAID, State, CDC, etc. – are an even more beneficial avenue to pursue for the institutional benefits they provide, and also because “Enabling U.S. interagency counterparts to advance U.S. influence and interests” is now a recognized U.S. national security priority.<sup>3</sup> Multiple agencies across the US government conduct GHE and therefore each have a need for their junior personnel to receive education in this field. Each agency also has senior personnel with niche expertise in various aspects of GHE. With only memoranda of understanding between agencies, USU should be able to offer students from other agencies seats in our distance learning courses; in turn, partner agencies can contribute specific lectures and material on topics in which they have unique expertise. This arrangement greatly benefits both parties: DoD students benefit by having the opportunity to learn from interagency experts, students from the interagency benefit from access to this proven educational opportunity, and all students benefit from increased diversity within both the faculty and student populations.

The DoD has made increased international partnership, to include “developing military and civilian partner nation capacity,” an overarching strategic aim.<sup>4</sup> USU’s Global Health Program is ideally suited and now ready to pursue this objective. USU’s program can enroll select partner-nation military students each year and, in turn, faculty or subject-matter experts from each partner nation can contribute content to the curriculum. Recorded lectures, structured interviews, and live seminar participation by video teleconference are just some of the ways partner-nation faculty can inject their unique expertise to the benefit of all our students. U.S. students will also benefit greatly from the presence of international students in the classes, as peer-to-peer interaction is a large part of our program, and the benefits of adding international diversity to a student body studying global health is self-evident.

Offering enrollment to a handful of students from a partner-nation military even without the quid-pro-quo of faculty input from their country should also be considered. Establishing relationships and “opening doors” are oft-touted reasons for conducting global health engagements with partners of strategic interest. Enrolling students from select countries for this purpose, under the guidance of the relevant combatant command, demonstrates how this Program can be used not just to teach global health engagement, but rather as a tool for global health engagement itself.

Improved business efficiencies, interagency collaboration, and strategic partner engagement are three strategic priorities of the Department of Defense today. The USU Global Health Distance Learning Program offers a way to meet all three of those objectives in a low-cost manner that also greatly enhances the educational experience for our own students.

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<sup>3</sup> [\*Summary of the 2018 National Defense Strategy of the United States of America: Sharpening the American Military’s Competitive Edge\*](#). Page 4.

<sup>4</sup> DODI 2000.30. Section 1.2.a.

# Appendix C

# **Progress Report for the USUHS-Naval Postgraduate School Healthcare Simulation Certificate Program**

Healthcare simulation is a growing and necessary skill set to help educate and train our next generation of healthcare professionals to reduce medical errors and improve patient outcomes in combat and peacetime medical operations. In 2012, the Uniformed Services University of the Health Sciences (USUHS) in Bethesda, Maryland and the Naval Postgraduate School (NPS) in Monterey, California embarked on a collaborative project in healthcare simulation. Combining over twenty years of experience in offering certificate, Masters, and PhD level instruction in modeling and simulation (M&S) with USUHS' depth of knowledge in healthcare and experience in healthcare simulation for training, these two shared resources worked to create the Healthcare Modeling and Simulation Graduate Certificate Program. This twelve-month online program is designed to create a cadre of healthcare professionals capable of improving healthcare education and delivery through advanced M&S tools. Specific educational areas include:

1. Elements of research design and statistical analysis
2. Theories of modeling and simulation
3. Principles and practices in healthcare simulation
4. Organization and management of simulation assets

In addition to coursework, all students are required to submit a research proposal in their field of interest that involves healthcare simulation in the Department of Defense.

Since 2012, the certificate program has enrolled six cohorts of students.

- 79 graduates to date
- USN, USA, USAF Medical Corps, Nurse Corps, and Medical Service Corps officers
- VHA physicians and nurses

To meet the growing demand for advanced M&S capabilities across DoD, future goals for the program include:

1. Creating a Masters level degree in healthcare simulation which would be an extension of the credits earned during the certificate program. This Masters degree would be similar in content and rigor to the Masters and PhD programs in modeling and simulation currently awarded by NPS.
2. Development of additional qualifying designators or new MOS, NEC or similar work codes to be attached to personnel. This will allow them to be recognized for their special skill and expertise in healthcare simulation by the services for assignment purposes.

The current certificate program is currently funded by a POM through the USUHS. Challenges that remain include appropriating faculty time and commitment from both the NPS and the USUHS faculty to begin a Masters level degree program in healthcare simulation that will grow the next generation of simulation experts for the MHS.

## **TAB 28**

### *Inouye Graduate School of Nursing Report*



## **Board of Regents Brief**

**Submitted by:** Carol A. Romano, PhD, RN, FAAN

**Date:** April 10, 2019

**Title & School:** Dean, Graduate School of Nursing

**Phone:** 301-295-9004

**Purpose:** Information

**Action** \_\_\_\_\_

**Subject:** Dean's Report – Graduate School of Nursing

### **Education and Training**

- US News 2020 National rankings of Best Graduate Nursing School ranked the GSN doctor of nursing practice program (DNP) #32 and the masters of science in nursing program (MSN) #41 of 584 schools surveyed, based on 14 indicators. Our programs are in the top 5% and top 17 % respectively. These rankings are an increase from 2018 (#36 to #32 for DNP and #60 to #41 for MSN.) The GSN nurse anesthesia program ranked #4 of 112 accredited graduate programs.
- 2019 Graduation class includes 2 PhD student, 40 DNP and 2 MSN students for a total of - 938 GSN alumni (199 DNPs, 697 MSNs and 42 PhDs).  
All graduating 2019 FNP students successfully completed their specialty certification. Seventy-two DNP and MSN students in the Class of 2022 matriculated in May. Four part-time PhD students matriculated in May.
- Advanced Practice curriculum review and redesign was initiated to streamline curriculum, enhance interprofessional collaboration, explore potential interaction with services for evidence based practice training, and integrate DNP and PhD student interaction.
- The PhD program made the change from quarters to semesters in May and matriculated the 2019 cohort in May. Previous classes matriculated in August and were on the quarter system.
- GSN faculty (Drs Laura Taylor & Janice Williams) developed & implemented a telemedicine strategy to continue classes during snow related government closure. The experience allowed the faculty, students and simulated patients to interact via the Google Hangout platform and successfully complete class.



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GRADUATE NURSING

Daniel K. Inouye Graduate School of Nursing

- In response to a request for the USU military sexual assault provider course content from Sen Martha McSally, a combat veteran, GSN & SOM faculty members (Lt Col Jennifer Korkosz & Dr. Benedek) provided the Senator's office with current goals & objectives & copy of the on-line GSN developed curriculum for the USU Military Sexual Assault training program for providers.
- Operational Readiness
  - The first GSN anesthesia students successfully piloted interprofessional implementation of the Gunpowder Field Exercise in conjunction with the SOM 3<sup>rd</sup> Year Medical Cohort. A field exercise engaged both GSN & SOM faculty for prolonged field care and teamwork.
  - Dr. Matthew Welder (RNA Program) was invited to teach Advanced Wilderness Life Support to NATO Special Forces February 2019 in Stuttgart Germany and Pfullendorf Germany. 2 RNA students accompanied him to the course to train alongside the NATO forces.
  - Dr. Welder conducted two Cold Weather Medicine courses at the Army Mountain Warfare School in Jericho VT. 12 students attended each session and 1 completed their Diploma in Mountain Medicine. Dr Matthew Welder was awarded the Diploma in Dive & Marine Medicine.
  - The Wilderness Medical Society approved USU's request to continue awarding the international Diploma in Mountain Medicine (DiMM) for another 4 years. This endorsement continues the DiMM program through April 2023 and makes USU one of only 3 institutions that can award the DiMM within the US and the only one in DOD.
  - Drs. D'Angelo and Welder were invited to serve as Subject Matter Experts at the AMEDD Expeditionary Resuscitation Surgical Team training and validation at Joint Base San Antonio, TX December 2018 and April 2019.
  - Dr. D'Angelo was invited to attend and evaluate a pilot course by the Society of Critical Care Medicine (SCCM) – Fundamental Critical Care Medicine: Austere and Operational Environments in February 2019.
  - GSN faculty (Lt Col John Williamson & CDR Jerrol Wallace) and the USU Global Health Center provided trauma nursing instruction and evaluation in a "Train the trainer" program, as part of an AFRICOM African Peacekeeping Rapid Response Partnership in Uganda. A GSN FNP student (Maj Woodie) presented this initiative

**May 2019**



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**GRADUATE NURSING**

Daniel K. Inouye Graduate School of Nursing

at the Europe-Africa Military Nursing Exchange Conference with two Ugandan nurses from the course.

- Two GSN DNP students were on site at Joint Base Elmendorf-Richardson (JBER) during a major earth quake. Students were involved and helped in medical response.
- Two CNS students served on a twelve day humanitarian mission to Honduras to provide periOperative nursing expertise.

## Research and Scholarship

### Awards

- Two CNS students (MAJ Kenneth J. Romito and MAJ Daniel Feddersen) received the Association of periOperative Registered Nurses (AORN) 1<sup>st</sup> place national award for evidence-based practice: *“Achieving High Reliability in Flexible Endoscope High-Level Disinfection at Walter Reed National Military Medical Center.”*
- MAJ Jose A. Rodriguez, CNS faculty, received the AORN national award for Clinical Excellence Award for his poster *“ATP-Bioluminescence Technology as an Adjunct Tool to Validate Cleanliness of Surgical Instruments.”*
- Col Dukes & Col Hatzfeld, et al. were awarded 2<sup>nd</sup> place for their research poster *“Exploring Behavioral Health and Reintegration of Enroute Care Nurses”* presented at the Army Nurse Corps Association Conference.
- The GSN has 17 total active research projects (14 faculty, 3 students) with \$4,861,837 in current faculty research funding and \$249,408 in current student research funding

### Publications

Regan M, **Engler MB**, Coleman B, Daack-Hirsch S, Calzone KA. (2019). Establishing the Genomic Knowledge Matrix for Nursing Science. *J Nurs Scholarship*, 51(1):50-57. PubMed ID: 30272391

**Radford, K.D.**, Park, T.Y., Jaiswal, S., Pan, H., Knutysen, A., Zhang, M., Driscoll, M., Osborne-Smith, L.A., Dardzinski, B. J., & Choi, K.H. (2018). Enhanced fear memories and brain glucose metabolism (18F-FDG-PET) following sub-anesthetic intravenous ketamine infusion in Sprague-Dawley rats. *Translation Psychiatry*, 8:263. DOI: 10.1038/s41398-018-0310-8.

Zhang, M., **Radford, K.**, Driscoll, M., Purnomo, S., Kim, J., & Choi, K. (2019). Effects of subanesthetic intravenous ketamine infusion on neuroplasticity-related proteins in the prefrontal cortex, amygdala, and hippocampus of Sprague-Dawley rats. *IBRO Reports*, (6) 87-94.

Reed, E.K., Steinmark, L., **Seibert, D.C.** Edelman, E. (2019). Somatic testing: Implications for targeted treatment. *Seminars in Oncology Nursing*, 35(1), 22-33.

Lee, W. J., Clark, L., Wortmann, K., Taylor, L.A. & Pock, A.R. (2019). Interprofessional healthcare student training in the care of sexual assault patients utilizing standardized patient methodology. *The Journal of the Society for Simulation in Healthcare*. 14(1) 10-17. DOI: 10.1097

### **Presentations**

Psychiatric mental health nurse practitioner faculty presented “Prevention and Management of Disruptive Behavior, the MHS/VHA collaborative behavioral health crisis intervention model”, at the NCR DHA Workplace Violence Prevention Program.

CDR Virginia Blackman was invited to provide expertise at an Evidence-Based Practice Workshop at Womack Army Medical Center at Fort Bragg, NC.

CDR Raymond Bonds provided Professor Rounds and small session discussions with the nursing section at the International Meeting on Simulation in Healthcare (IMSH) in San Antonio 26 – 30 January 26 – 30, 2019.

Dr. Patrick DeLeon served as the reviewer coordinator for the National Academy of Medicine (NAM) Workshop Summary on *Improving Care to Prevent Suicide among People with Serious Mental Illness*.

Maj Karla Dennard gave a presentation titled *Polycystic Ovarian Syndrome* for the DHA Continuing Education Program Office (CEPO/J7).

Dr. Rita D'Aoust, Dr. Heather Johnson, and Dr. Diane Seibert gave a presentation titled *RIME: To Simulation and Beyond* at AACN's 2019 Doctoral Education Conference.

Dr. Elizabeth Kostas-Polston, gave a presentation titled *What's new in women's health guidelines and Updates in HPV cancer prevention and management* at the NPACE Primary Care Conference; Savannah, Georgia.

Dr. Penny Pierce gave a presentation titled *Theory Construction and Research Methodology* at the annual conference of the National Council of Family Relations.

Dean Romano, Dr. Hamlin, and CDR Radford presented at the Nursing Research in Military and Veterans Consortium at the National Institutes of Health on the topic *Status of Nursing Research at the Graduate School of Nursing and Areas for Collaboration*.

Dean Romano spoke at the 30<sup>th</sup> annual Gonzaga College High School Regional Leadership & Service Sports Tournament Banquet.

CDR Tiffany Uranga, Dr. Schramm, and Dr. Taylor along with two students presented *Integration of a Health and Wellness Program into a DNP Program* at the AACN Doctoral Conference, San Diego, CA.

Thirteen students and five faculty presented papers at the annual Triservice Nursing Research Conference (TSNRP) in San Diego.

### **Leadership and Service**

- CAPT Cindy Kuehner (FNP Alumni) and Col. Candy Wilson (GSN Faculty) were inducted as Fellows in the American Academy of Nursing, joining less than 0.1% of nurses who hold this prestigious honor.
- Maj. Regina Owens (PMHNP Faculty) was selected as member of the Editorial board for Professional Psychology: Research and Practice.
- LtCol John Williamson (FNP Faculty) received the USAF Achievement in Nursing Workforce Development Award.
- GSN conducted an all faculty & staff work & wellness retreat to review a climate survey and update strategic initiatives, faculty workload benchmarks, program goals and healthy workplace strategies.
- GSN leadership development training was provided for supervisors and program chairs March 2019; executive leadership development for Associate/Assistant Deans is planned for June 2019.
- Dr. MyungJa Kim, former Republic of Korea Navy nurse corps officer and current civilian faculty member at Dong-eui University in Busan Korea, began a 1 year, self-funded, sabbatical in the GSN (Feb 2019-2020) to study policy and nursing leadership roles in the federal health systems.
- The CNS program faculty & students provided sterilization/decontamination and high level disinfection expertise to 4 MTFs. Students identified variances and provided process improvement recommendations. The program will conduct a "re-evaluation" of the MTF's in April 2019.
- GSN, USU Legal Counsel and Veterans Affairs lawyers are exploring policy barriers that prevent VA employees from pursuing student opportunities at USU.
- Dean Romano attended the AACN annual Dean's conference and participated in MD-DC-VA semiannual regional deans meeting.

- Dean Romano met with Federal Nursing Corps Chiefs and presidents/executive officers of five major professional nursing organization representing regulation, practice, research, administration & education, to explore federal/civilian partnerships

### **Faculty & Staff**

- Dr. Mary Engler, tenured professor, assumed chair of the PhD Program.
- Dr. Joan Wasserman reported for duty as the new GSN Associate Dean for Research. Dr. Lynette Hamlin completed her work as Interim Research Dean, has oriented Dr. Wasserman and transitioned these responsibilities. Dr. Hamlin resumed her role as Associate Dean for Faculty Affairs.
- The GSN Registrar transferred to the USU Registrar Office. Transition and review/clarification of GSN registrar procedures and process are ongoing in collaboration with the USU Registrar. GSN is in the process of recruiting for a program analyst to manage the non-registrar functions previously covered by the GSN registrar.
- Five new faculty started this year and completed orientation: three military faculty replacements and two new civilian hires.
- Three faculty retired: Dr. Patricia Hinton-Walker, former GSN Dean; LTC Danette Cruthirds and LCDR John Litchfield, both from the RNA program.
- The GSN budget analyst, Marsha Howell, retired after 39 years of government service; and an anesthesia program support staff resigned for health reasons. GSN currently has four administrative staff vacancies and five faculty vacancies. Recruiting is ongoing.

## **TAB 29**

### *Postgraduate Dental College Report*

# Uniformed Services University of the Health Sciences Board of Regents

## Board Brief

Submitted by: Thomas R. Schneid, DMD, MS Date: April 12, 2019

Title & Department: Executive Dean, Postgraduate Dental College (PDC) Phone: 210-299-8506

Purpose: Information X Action         

Subject: PDC Dean's Report

### Significant Issues:

1. Preparations are in progress for 7 graduation ceremonies to confer Master of Science in Oral Biology degrees upon the Postgraduate Dental College (PDC) Class of 2019. Ceremonies will be held at Fort Bragg, Fort Hood, Fort Gordon, Schofield Barracks, Naval Postgraduate Dental School, JBSA Lackland, and Keesler AFB. 70 Army, Navy, and Air Force graduates will receive diplomas, pending endorsement by the Board and approval by the President, USU. At the completion of this academic year, USU will have awarded a total of 465 Masters of Science degrees to PDC graduates. 5 additional student will require an additional 3-6 months in training to complete requirements.
2. The Air Force Dental Corps will re-structure its graduate dental education platform in order to eliminate redundancies and realize efficiencies. The Endodontics MS Degree residency program at Keesler AFB will close effective June 30, 2020. On that same date, the Advanced Education in General Dentistry two-year MS Degree residency program (AEGD-2) will transition to an Advanced Education in General Dentistry one-year certificate program. As per Commission on Dental Accreditation (CODA) guidelines, the programs will no longer enroll new students but will continue to meet accreditation standards, allowing those currently enrolled to complete their training as graduates of an accredited program. As a result, CODA has or will soon change the programs' accreditation designation to "approval without reporting requirement (Teach-Out)". Training authorizations for these programs will be consolidated within existing PDC MS Degree programs located at JBSA Lackland TX. These actions will result in the loss of one PDC MS Degree training location as of July of 2020. This information has been coordinated with the USU Assistant Vice President for Accreditation and Organizational Assessment. There will be no impact on the University's accreditation status.

### 3. Research activities of note:

Associate Dean for Dental Research (ADDR) initiatives:

- Authored a six-part research design lecture series that was uploaded to the USU learning management system for use by programs to augment introductory research coursework.



- Collaborated with the University of Texas Health Science Center at San Antonio to finalize a Memorandum of Understanding that focuses on partnerships for research and academic efforts spanning the health sciences and including the role of underrepresented populations within the health sciences.
- Coordinated with Military Health System Research Symposium organizers to incorporate an evening session focused on dental research, including both oral and poster presentations. (Attachment 1) Research presented will highlight work directly linked to readiness and areas of interest to the Military Health System that are aligned with the PDC Research-Focused, Operational Gap Analysis. (Attachment 2) Dental submissions represent a collaboration between the PDC and the Naval Medical Research Unit – San Antonio.
- Managed the development of the “Dental Research Program”, funded as a sub-award from a Research Training and Innovation Grant (Office of the Vice President for Research). Three projects have been approved for funding during this first year of the program. Recently there has been expanded interest and participation by all 3 Services, with multiple research proposals presently being drafted and planned for submission for funding consideration

#### 4. Faculty activities/initiatives of note:

Associate Dean for Faculty Affairs (ADFA) initiatives:

- Working with LTC Chris McMains (San Antonio Military Medical Center), Dr. Lou Pangaro, (both USU SOM Professors of Surgery), and a Graduate Medical Education Program Director at the Salt Lake City Veterans Administration Medical Center, to develop an interprofessional-focused medical/dental version of the Stanford Faculty Development Course planned as a pilot program in the USU Southern Region, with long-term plans for implementation at other locations.
- Working with the Director, Tri Service Center for Oral Health Studies (TSCOHS). Planning discussions were held with the SOM regarding implementation of a PDC-specific, Long-Term Career Outcome Study. Next steps in the process are to identify, manage, and track applicable metrics and data sources, with support from a newly hired Data Analyst. The goal of this initiative is to determine the value of the USU/Military postgraduate dental program partnership in the career development of PDC students and faculty and the accompanying value to the Military Health System.
- Two PDC faculty, COL Pete Guevara, Army Postgraduate Dental School (JBAS Fort Sam Houston, TX) and Col Jim Knowles, Air Force Postgraduate Dental School (Wright Patterson AFB) completed the Faculty Development Outreach and Certification for the Uniformed Services (FOCUS) training held at USU. They are now able to present medical/dental faculty development topics for certificate credit in the following areas: Direct Observation, Competency-based Education, Creating a Poster, Making Learning Interactive, Narratives, Role Modelling, and Supervision. Since completing the program, they have traveled with the USU interprofessional faculty development team to provide training at Walter Reed National Military Medical Center (Col Knowles) and Naval Medical Center San Diego (COL Guevara).

#### 5. Executive Dean Initiatives:

- Currently drafting a standardized MS Degree curriculum, common to the 7 Tri-Service locations and 20 Graduate Dental Education (GDE) Residency Programs that comprise the PDC. Each of the 20 military GDE residency programs will fulfill USU degree requirements by completion of identified courses/seminars, conducted within these programs, and that are accomplished as components of the

Commission on Dental Accreditation (CODA) approved GDE Programs.

- Participated in a panel discussion at the Inter Agency Institute for Federal Health Care Executives, held at USU. The discussion focused on policy issues affecting health care from the perspective of dentistry, medicine, nursing, and veterinary medicine.

6. Tri-Service Center for Oral Health Studies (TSCOHS) update: The Director and Assistant Director, TSCOHS, were appointed as key members of the DHA Tri-Service High Caries Risk Program Alignment team as a sub-working group of the DHA Dental Systems Integrated Product Team (DSIPT) Dental Policy Alignment and Integration Working Group (DPAIWG). The Group places emphasis on preventive efforts to support and increase readiness. The Team will evaluate ways to create a program aligned across the 3 Services as well as recommend policy for program simplification, thereby improving patient care while providing meaningful data to manage population health.
7. The 2019 Federal Services Dental Educators' Workshop was held at JBSA Fort Sam Houston, TX from April 16-18. Nearly 100 military dental educators attended, the majority of whom are USU faculty. Dr. Tom Travis, Senior Vice President, USU Southern Regions, served as the keynote speaker for the opening session. Attendees included faculty from the Army, Navy, Air Force, and Canadian Forces Dental Corps. Inter-service collaborative and resource sharing opportunities were also explored during breakout sessions. Faculty Development lectures were given by USU faculty assigned to the San Antonio Military Medical Center and 5 USU Faculty Development Certificates for Teaching were awarded to PDC faculty. Continuing education lectures on Ethics were given by representatives from the American College of Dentists

**Current & Future Concerns:**

**Funding/Budget Estimate/Fiscal Impact:**

**Staffing Impact:**

**Board Action Requested:**

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**ABSTRACT SUBMISSIONS MHSRS 2019**

**Volumetric Changes in Edentulous Alveolar Ridge Sites Utilizing Guided Bone Regeneration and a Custom Titanium Ridge Augmentation Matrix**

Hofferber C, Ye L, Phoenix R (PDC Operational Gap, Research Focused – IV, B)

**The Effects of Therapy Dog Intervention on Anxiety in Adult Patients Undergoing Dental Procedures: A Pilot Study**

Lam D, O'Connor A, Avillo A, Ye L, Schmidt J, Phoenix R (PDC Operational Gap, Research Focused – III, A)

**Comparative Biocompatibility and Osteogenic Potential of Two Bioceramic Sealers**

Giacomino M, Wealleans J, Kuhn N, Diogenes A (PDC Operational Gap, Research Focused – IV, B)

**Efficacy of Pulpal Anesthesia Using a Needle-less Syringe**

Christensen C, Arnason S, Oates R, Crabtree M, Kersey J, Vandewalle KS (PDC Operational Gap, Research Focused – III, A)

**Efficacy of Screen for GERD Based on Dental Erosion**

Ellis A, Miller CB, Kosaraju A, Francis JM, Solivan-Ortiz A, Parke A, Jessup J, Vandewalle KS (PDC Operational Gap, Research Focused – I, B)

**Evaluation of Mesenchymal Stromal Cell Differentiation for Healing of Large Tissue Defects**

Stukel J, Macaitis J, Chen W, Botts E, Grunlan M, Lien W, Burdette A (PDC Operational Gap, Research Focused – IV, B)

**Dual Tobacco Use and Related Factors among Active Duty Service Members in the US Military**

Lin J, Zhu K, Solivan-Ortiz A, Larsen S, Irwin S, Schneid T, Shriver C, Lee S (PDC Operational Gap, Research Focused – I, A)

**Dental DNBI Encounters in Three Air Force Deployed Locations**

Irwin S, Park J (PDC Operational Gap, Research Focused – I, A; II, A)

**Simulating Field Storage Conditions for Evaluating Medical and Dental Materials**

Lemon D, Chen W, Horvath F, Hoyle J, Hamlin N, Truong T, Olivera O, Hwang Y (PDC Operational Gap, Research Focused – IV, A)

**The Effects of Electronic Cigarette Use on Physical Readiness among US Military Personnel**

Jaffar (remaining authors not listed) (PDC Operational Gap, Research Focused – I, A)

**Antifungal Activity of Scorpion Venom-derived Peptide Analogues against *Candida Albicans***

Snyder S, Gleaton J, Kirui D, Millenbaugh N (PDC Operational Gap, Research Focused – I, C)

# POSTGRADUATE DENTAL COLLEGE OPERATIONAL GAP ANALYSIS (RESEARCH FOCUS)

GAP DESIGNATION	SPHERE	EXAMPLES
I. Health and Human Performance	A. Direct Relationship to Military Readiness and Deployability	<ol style="list-style-type: none"> <li>1. Dental interventions impacting deployment status</li> <li>2. Tobacco utilization and cessation</li> <li>3. Incidence and impact of vaping</li> <li>4. Other oral-systemic considerations, interactions, and/or interventions with significant military implications</li> </ol>
	B. Oral-Systemic Considerations, Interactions, and Interventions	<ol style="list-style-type: none"> <li>1. Links between oral health and cardiovascular disease, diabetes, stroke, premature birth, low birth weight, etc.</li> <li>2. Genomics, microbiomics, and biofilm characterization in oral-systemic health</li> </ol>
	C. Oral/Orofacial Pathology Detection and Treatment	<ol style="list-style-type: none"> <li>1. Incidence and appearance of pathoses</li> <li>2. Diagnostic aids for clinical identification of oral/orofacial pathoses</li> <li>3. Surgical and non-surgical interventions for oral/orofacial pathoses</li> <li>4. Management of oral/orofacial defects</li> <li>5. Other oral/orofacial pathology considerations with significant military implications</li> </ol>

GAP DESIGNATION	SPHERE	EXAMPLES
II. Prevention and Safety	A. Disease Prevention	<ol style="list-style-type: none"> <li>1. Application of CAMBRA protocols for preventive purposes</li> <li>2. Employment of anticariogenic materials and devices for preventive purposes</li> <li>3. Other disease prevention concerns/considerations with significant military implications</li> </ol>
	B. Patient Safety	<ol style="list-style-type: none"> <li>1. Best practices</li> <li>2. Clinical checklists</li> <li>3. Treatment area markings</li> <li>4. Tooth identification/exclusion systems (dental overlays, heads-up display systems, etc.)</li> <li>5. Other patient safety concerns/considerations with significant military implications</li> </ol>
	C. Practitioner Safety	<ol style="list-style-type: none"> <li>1. Systemic effects of long-term exposure to common dental materials</li> <li>2. Postural changes resulting from clinical care delivery</li> <li>3. Hearing loss associated with high-frequency sound exposure</li> <li>4. Impact of loupe and headlamp utilization upon vision</li> <li>5. Other practitioner safety concerns/considerations with significant military implications</li> </ol>

GAP DESIGNATION	SPHERE	EXAMPLES
III. Pain	A. Pain Management	<ol style="list-style-type: none"><li>1. Novel/emerging therapies for the management of dental pain (emerging chemistries, auricular devices and procedures, visually-mediated devices, etc.)</li><li>2. Opioid use and management</li><li>3. Opioid dependence associated with dental practice</li><li>4. Methods to counteract/mitigate the addictive properties of opioids</li><li>5. Non-opioid management of dental pain</li><li>6. Additional components and mechanisms for orofacial pain management with significant implications in dentistry and in the broader healthcare community</li></ol>

GAP DESIGNATION	SPHERE	EXAMPLES
IV. Materials, Devices, and Techniques	A. Restorative Materials, Techniques, and Procedures	<ol style="list-style-type: none"> <li>1. Evaluation of restorative materials (polymers, ceramics, composites, hybrids, alloys, etc.)</li> <li>2. Assessment and refinement of oral/orofacial restorative techniques and procedures</li> <li>3. Other facets of testing, development, and refinement related to restorative materials, techniques, and procedures with significant military implications</li> </ol>
	B. Regenerative Materials, Processes, and Procedures	<ol style="list-style-type: none"> <li>1. Evaluation of relevant biologic materials (chemistries, physical characteristics, biologic potentials, etc.)</li> <li>2. Biomedical engineering applications</li> <li>3. Other regenerative materials, processes, and procedures with significant military implications</li> </ol>
	C. Instrument and Device Testing	<ol style="list-style-type: none"> <li>1. Assessment of dental materials and devices (handpieces, dental instruments, autoclaves, dental field units, scanners, mills, etc.)</li> <li>2. Other materials and devices with significant implications within the military environment</li> </ol>
	D. Clinical and Procedural Considerations	<ol style="list-style-type: none"> <li>1. Practices and procedures impacting environmental safety</li> <li>2. Other processes, procedures, techniques and materials with significant environmental implications</li> </ol>



GAP DESIGNATION	SPHERE	EXAMPLES
V. Technology and Innovation	A. Information Management / Information Technology	<ol style="list-style-type: none"> <li>1. Electronic health record (functionality, incorporation into medical record, etc.)</li> <li>2. Reliable/secure communications (MEDNET, alternatives to Army SAFE site, etc.)</li> <li>3. Enhanced imaging capabilities and applications</li> <li>4. Enhanced analysis, planning/design, and guided surgery applications</li> <li>5. Expanded CAD/CAM capabilities</li> <li>6. Emerging IM/IT-based technologies</li> <li>7. Other IM/IT applications with significant impact in the military environment</li> </ol>
	B. Data Capture / Data Mining	<ol style="list-style-type: none"> <li>1. Improved methods for data capture, retrieval, and analysis within the Military Health System</li> <li>2. Quantification of existing and new disease</li> <li>3. Clinical effectiveness of competing therapies</li> <li>4. Financial and readiness ramifications of dental care</li> <li>5. Other technologies and innovations with significant implications in the military healthcare environment</li> </ol>
	C. Simulation	<ol style="list-style-type: none"> <li>1. Development and/or deployment of simulation and assessment tools for use in dental training and skills development</li> <li>2. Other simulation components with significant implications in the military healthcare environment</li> </ol>
	D. Telehealth	<ol style="list-style-type: none"> <li>1. Development of a viable, sustainable, and secure assessment and consultation system with telehealth applications</li> <li>2. Creation, testing, and/or deployment of a remote dental treatment platform</li> <li>3. Other telehealth applications with significant military applications in the military healthcare environment</li> </ol>

## **TAB 30**

### *College of Allied Health Sciences Report*

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

## **Board Brief**

**Submitted by:** Mitchell J. Seal, EdD, MEd-IT, BSN, AS, RN

**Date:** May 17<sup>th</sup>, 2019

**Title & Department:** Dean, College of Allied Health Sciences

**Phone:** 210-299-8522

**Purpose:** Information X

Action X

**Subject:** CAHS Update & Mission Expansion

### **Information:**

#### **1. CAHS by the Numbers:**

As of April 12<sup>th</sup> in calendar year 2019, CAHS has enrolled 251 students into 7 (seven) instructional programs with a total enrollment of 574 students. Detail of this data is included in the supplementary information submitted with this report.

Current approved programs of instruction in session include, Preventive Medicine Technician (Army & Navy), Nuclear Medicine Technician (Tri-Service), Medical Laboratory Technician (Army & Navy), Histology Technician (Air Force & Navy), Urology Technician (Air Force & Navy), Neurodiagnostic Technician (Air Force & Navy), and Education and Training Administration and Leadership (Tri-Service).

All completers are eligible for an official transcript and at least 1 (one) civilian credential. On averaging, CAHS programs are yielding eligibility for twice as many civilian credentials. This is the result of transitioning historically 'certificate only' programs of the Services to credit-bearing programs in collaboration with CAHS.

Preliminary degree audits were completed by CAHS and have been submitted to the USU Registrar for final audit. This process allows undergraduate students to receive their transcripts while waiting on award of diploma so that they can continue their education voluntarily with full qualification for financial aid; or to demonstrate eligibility for promotion points; or to be more competitive among their peers for the purpose of performance evaluation or competitive program selection (e.g. direct and indirect procurement commissioning programs).

We have identified 31 students who have either completed all degree requirements for award of ASHS degree, or are within 1 (one) CLEP test of finishing their degree, by the end of the May semester, 2019.

We have identified 1 student who has completed all degree requirements for award of our first

BSHS degree by end of the May semester, 2019. And we have identified 3 students who have completed all degree requirements save for 1 (one) CLEP test (College Level Examination Program) to complete their BSHS degrees by the end of the May semester, 2019.

In calendar year 2019, CAHS is on pace to enroll over 900 students into 12 (twelve) programs of instruction at METC and at two newly established CAHS Other Instructional Sites as approved at the last Board of Regents meeting, which are the US Air Force School of Aerospace Medicine in Dayton Ohio (Wright-Patrick AFB), and the Army Medical Department School at Ft Sam Houston (San Antonio, TX).

Total faculty assigned to the CAHS now stands at 179 as of April 12<sup>th</sup>, 2019. The vast majority of these faculty are at the ranks of Instructor 1 or Instructor 2. Less than 2% of faculty hold the rank of Associate Professor or higher. Since CAHS faculty teach exclusively discipline-specific professional content, all faculty nominations are based on the established professional requirements for the particular discipline as determined and required by the relevant programmatic accreditation body.

The value of these programs and faculty in terms of student outcomes is impressive. These programs replace civilian school contracts at about 10% of current contract costs. These programs replace the total cost of voluntary education funding by roughly 99%. This is based on the 'actual cost' metric developed in concert with the Vice President for Finance. And using the standard Voluntary Education benefit formula, these programs are projected to yield a maximum Tuition Assistance value of approximately \$15M per year in 2019.

## 2. Section 735 (SOF PA):

CAHS was directed to take the lead in responding to Section 735 of the 2018 NDAA. This section directs the Assistant Secretary of Defense for Health Affairs to conduct a pilot program to assess the feasibility and advisability of partnerships between special operations forces, institutions of higher education, and health care systems, through which special operations forces (SOF) medics can earn credit toward a Master's Degree of Physician Assistant for their military training and operations experiences.

Not only do we believe it is feasible, we believe that it's highly advisable. This is because this legislative initiative, much like that of the CAHS, was born of the fallout of the White House Roundtables for Veteran and Military Credentialing. Translating military tasks and objectives into civilian academic outcomes is what we do at METC and this process is now being applied to the SOF Medic.

One of the main reasons we feel a pilot is advisable is because we're at a place where not only could CAHS support award of BS degrees required for PA school eligibility (which we've been working on for about a year), we also believe that some of the specific coursework prerequisites for PA school are also satisfied by SOF Medic training. For example, the cadaver lab and requirements for anatomy and physiology at the Joint Special Operations Training Center are quite impressive.

We also feel that some of the JSOMTC curriculum that is also available for harvest reaches the threshold of PA-level education, as does SOF Medic experience. These topics and experiences include Operational Medicine, Altitude Medicine, Tropical Medicine, Prolonged Field Care, and Disaster Medicine to name a few of the more rigorous areas of advanced practice instruction and experience.

With respect to making determinations for award of credit for advanced practice experience, the CAHS is working with the American Council on Education and the American Association of College Registrars and Admission Officers in evaluation of SOF Medic operations experiences for credit recommendations. In fact, CAHS was asked by AACRAO to join the team with ACE and Western Governor's University to refine how these field experience evaluations are made consistent with current accreditation standards based on military requirements.

Our analysis with USASOC and the SOC Surgeon's Office has also revealed that it is quite possible, and affordable, to develop a Master SOF Medic Program that would allow for extension of the SOF Medic career, which tops out at about 15 years, which renders the vast majority of SOF Medics ineligible for the only other military route to becoming a PA, which is the Interservice Physician Assistant Program (IPAP). This is to say that the design of the Master SOF Medic Program and the IPAP are mutually exclusive. Rather, together these programs will yield even more PAs for in-service and post-service utilization.

We have identified a pathway that we believe can deliver 'Best of Breed' SOF Medics to become SOC PAs, and that this program will also provide a pathway for post-service employment of qualified SOF Medics as PAs. With the assistance of Dr. Longacre, we submitted an interim report in concert with JSOMTC and SOCOM. And Dr. Seal briefed Senator Burr (R, NC) at his request.

To move forward, the JSOMTC at Ft Bragg (Fayetteville, NC) must become the second Branch Campus administered by the CAHS as previously reported. Development is on-going in concert with Mr. Henske and MSCHE, and with JSOMTC and SOCOM. No significant concerns have been identified at this time.

### 3. Demand Signal:

The requests for collaboration with the University via the CAHS continues to be strong. Demand continues to be equally strong from DHA professional programs as well as from joint and single-service operational programs. More than 50 existing DoD programs have formally asked to explore collaboration with the CAHS. Most of these requests are detailed within previous reports to the BoR, and within the CAHS Strategic Plan.

The most significant development is that DHA J7 (BG Sharron Bannister) has directed METC to 'on-board' the rest of METC programs that have not already been requested to transition from METC to CAHS. The most recent brief to the METC BoD is contained in the supplemental materials of this report. However, the student load of this request represents an increase in

workload of about 6 (six) percent.

Perhaps most revealing in terms of the CAHS collaboration demand signal is the continued request from the Office of the Deputy Assistant Secretary of Defense for Force Education and Training for participation, demonstration, and collaboration of cutting-edge educational administration practices that are showing dramatic improvements in return on investment with as good or better student achievement outcomes.

Since the last BoR, the CAHS Dean has been appointed to the DASD FE&T working group for the development and pilot of the Universal Learner Record with select programs of the CAHS. USU IT and DHA IT have also been added as adjunct consultants to the working group. The CAHS will host a working group meeting at METC in September of 2019.

Demand continues to be equally strong from DHA professional programs as well as from Joint and single-Service operational programs, which again demonstrates the holist value proposition of the CAHS. Both sorts of training fit into our degree plans and propel the member further in terms of readiness now, as well as post-service later, than either can do alone. And it ultimately requires less resources.

Speaking of the new process, two proposed and recommended programs have made it through 6 of the 7 required steps for new program approval. The seventh step is of course recommendation of the USU BoR.

**Action:**

4. New Programs Recommendation METC:

It is proposed that the USU BoR support recommendation for approval of four ‘new start’ programs located at METC. These are the Nutrition and Diet Therapy (Air Force & Army), Cytology Technician (Army), the Occupational Therapy Assistant (Army & Navy) programs, and the Radiologic Technologist (Tri-Service).

All of these programs have been briefed to the Deans’ Council. The Council has unanimously concurred with all programs. These programs have successfully navigated at least step four of the ‘New Start’ procedure. The last three steps are review by OGC, Accreditation, CIO, and Finance. There are no concerns for any of these reviews. All of these programs are projected to start before or very closely after the next BoR meeting. Given this, and assuming no concerns are raised or unresolved in Step 5 of the procedure.

*It is proposed that these programs transition from METC to the CAHS at the next available iteration.*

Specific information for each of these proposed new start programs is located in the supplemental information of this report.

##### 5. New Program Recommendation AMEDD:

It is proposed that the USU BoR support recommendation for approval of a 'new start' program located at AMEDD. The program is the Army's Critical Care Flight Paramedic program. Because the Army cannot afford the \$26K/student cost for civilian contract to support this program, CAHS has been requested to provide support. It has been determined that CAHS can collaborate with the program for the annual cost of \$56K/year.

Unlike the contract program that covers only Paramedic content, the CAHS program has been designed to provide a degree plan for the Combat Medic that combines 4 Army training programs in 3 locations including 5 civilian credentials. Programs include the Combat Medic, Expeditionary Combat Medic, Critical Care Flight Paramedic, and Aviation Crewmember programs located at METC, AMEDD, and Ft Rucker respectively. Credentials include BLS, ACLS, PALS, EMT and EMTP as well as the Army's 300-F3 Aviation Crewmember designation.

Since Army students are already on ground at AMEDD, and because students are currently not receiving credit or eligibility for credential, this has been an expedited review. However, the Dean's Council has unanimously concurred with support of this program. Given this, and assuming no concerns are raised or unresolved in Steps 4 or 5 of the procedure

*It is proposed that this program transitions from METC to the CAHS at soon as is possible.*

Specific information for this proposed new start program is located in the supplemental information of this report.

##### 6. New Start Information USAFSAM:

Given the emerging requirement of a BS degree for entry level Respiratory Therapy, and given that all Service Respiratory Therapist (RT) programs will be vacating their contracts to transition to CAHS in the next year, the Critical Care Air Transport Team course at USAFSAM has been targeted as a new CAHS course offered at an 'Other Instructional Site'.

This joint course will help complete the BS degree that will soon be required for entry level practice for all Services. This course will also help existing RTs meet the new standard without reliance on 'grandfathering', which improves readiness. Because this single 3-semester hour class is part of a larger degree plan, it does not require the full 'New Start' procedure. However, the Deans' Council did review the program. Unanimously concurrence of support of this program was achieved.

Specific information for this new CAHS class is located in the supplemental information of this report.

7. Other Instructional Site:

Given the dependency of NDAA FY 19 Section 735 (SOF Medic to PA pilot)

*It is recommended that the Board endorse the proposal to begin the process of establishing the JSOMTC at Ft Bragg (Fayetteville, NC) as a Branch Campus of USU administered by the CAHS.*

**More Information:**

8. Next New Start Programs:

No 'New starts' at METC have been identified for Calendar Year 2019. New starts will resume in January of 2020 as indicated in the supplemental information submitted with this report.

The Independent Duty Corpsman program of the Navy Medicine Education, Training, and Logistics Command has progressed through step 3 of the 'New Start process.

**Current & Future Concerns:** No significant concerns at the time of this submission.

**Funding/Budget Estimate/Fiscal Impact:** No significant concerns at the time of this submission – Included in the 17-21 POM or subject to new funding requirements of collaboration.

**Staffing Impact:** No significant staffing concerns at the time of this submission.

**Board Action Requested:** Concurrence with recommendation for New Starts (para 4 & 5) and Branch Campus (para 7)

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## **TAB 31**

### *Registrar Report*

# Uniformed Services University of the Health Sciences Board of Regents

## Board Brief

Submitted by: Wendy Kutchner, Ed.D, M Ed.

Date: April 23, 2019

Title & Department: AVP, Academic Records and University Registrar

Phone: 301-295-1667

Purpose: Information X

Action           

Subject: Academic Records Update

### Significant Issues:

#### 1. Year in Review

#### *Policies and Procedures*

Working closely with each of the academic programs and Information Technology over the past six months has revealed many structural issues that need adjustment going forward to ensure Middle States Commission on Higher Education (MSCHE) compliance and operational efficiency. Specifically, the review has exposed the need to thoroughly review existing USU Instructions, and Presidential and Deans Policies on curriculum management for the university. The assessment will focus on degree requirements, documentation in the official student records, permanent files and an institutional catalog. Additionally, the assessment will include ensuring MSCHE standards for student records are met, and optimizing the university's student information system (SIS). Such an evaluation will require collaborative academic meetings to discuss and plan culture transformation and accountability. The goal is to provide academic flexibility within comprehensive University policies that speak to all student records from admission to graduation at all degree levels. Initially the review will focus on the following areas:

- a) Establish a Comprehensive Grading Policy for the University that includes all possible grading options and remove previous Dean's Policies on Grading. The new Grading Policy will be implemented in the SIS and Learning Management System (LMS). Academic Programs will work closely with Office of the University Registrar (OUR) when establishing new course and/or degree grading criteria. Updates to curriculum will follow formalized updates and managed by OUR through the University Catalog (see the Technology section) as well as listed on the University transcript paper legend.
- b) Leave of Absence and/or Withdraw will be introduced to the University policies. These policies will follow best practices in post-secondary education to formalize student breaks in their academic career as well as apply readmission standards. Grading will also reflect accurate enrollment time periods and student records will no longer be removed from a course without a grade.
- c) Changing student grades will follow a standard process for all academic programs and

include a review stage at the program level to assure academic progress is tracked. Students will also be added to the change notification process once the SIS viewing culture is established.

- d) Repeat course rules will be added to the new grading policies and will follow one process for all programs to be implemented using the SIS.
- e) One transfer credit policy will be established that documents how credits from the host institution is listed and correlated to USUHS curriculum and/or degree requirements.

**Current and Future Concerns:** A review of USU Instructions and Policies will ensure that processes are updated, efficient and comply with accreditation standards and/or meet best business practices. The assessment will require serious dialogue with all university Schools and Colleges and may require changes to existing processes in order to improve curriculum management and to institute a university catalog system.

**Funding/Budget Estimate/Fiscal Impact:** Curriculum management and catalog software pricing is being developed (see the Technology section).

**Staffing Impact:** No anticipated impact

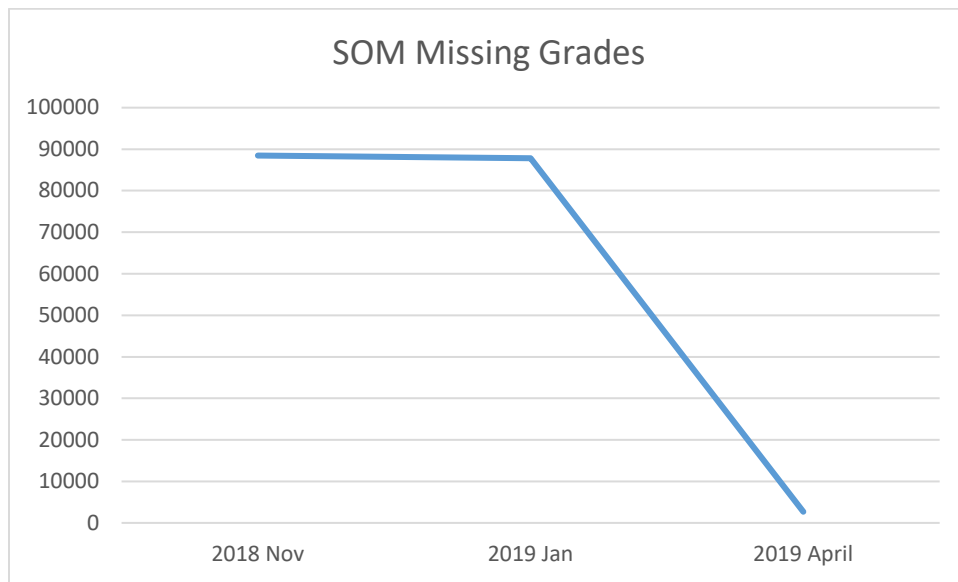
**Board Action Requested:** Support of academic collaboration and recommendation for policy review, implementation and accountability with newly formed teams.

### *Missing grade results*

#### **91,776 total missing grades have been reduced to 2,729**

78,231 grades in SOM have been identified as curriculum change issues not managed by OUR or cleaned before the legacy conversion into the new SIS. This number also contains historical placeholders no longer used. Action: to be removed from student records and future registration. SOM will also require a system to track non-gradable rotation locations.

**2,687 remain in SOM** that need further review.



#### **0 remain in CAHS**

CAHS numbers grew during the winter because courses ran multiple terms and were not graded according to policy. Action: work with CAHS to set up terms correctly and build reports to check on grading after the deadline.

#### **69 remain in GEO**

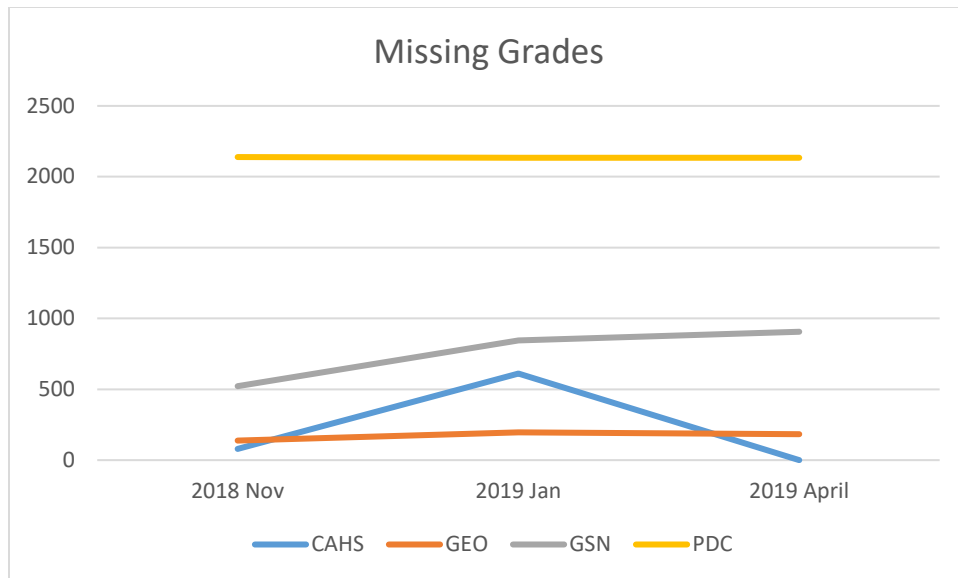
Response indicates some students never attended after being registered. Action: revise the scheduling and registration processes with GEO leadership.

#### **374 remain in GSN**

The majority of missing grades relate to curricular structuring that run multiple terms but only get graded once (problematic courses GSN 809, GSN 723A, GSN 906). Action: implement repeating coursework policy or embed the learning outcomes in other coursework.

#### **2,134 total in PDC**

Grades are only entered once a year. Action: create a grading process at the completion of the courses and work with Information Technology so faculty can submit grades using the LMS or SIS.



## 2. Technology

### *Curriculum Management*

The missing grade review has illustrated the need for an electronic curriculum management/catalog system at USUHS. Over the past 6 months, OUR and CAHS have reviewed software systems that will deliver the desired curriculum management and academic catalog needs. The DoD process review is in progress with Information Technology.

**Current and Future Concerns:** The challenge with this project is different curriculum management processes between the Schools and Colleges; the lack of documentation of current curriculum approval in all academic programs; and the lack of consistency for course offering, contact time and faculty workload/accountability. Technology approval is another concern for an electronic curriculum management system to be approved due to the cumbersome DoD approval process of Information Technology systems.

**Funding/Budget Estimate/Fiscal Impact:** Curriculum management and catalog software pricing is being developed.

**Staffing Impact:** Technology and OUR staffing will have increased responsibility.

**Board Action Requested:** Support of academic plan and software funding.

## **TAB 32**

### *Alumni Association Report*