

TSNRP ★ news

From the Director



LTC Deborah Kenny

I am very pleased to announce that TSNRP is reinstating our newsletter, to be published twice a year. It can be accessed on our Web site at www.usuhs.mil/tsnrp/links/. We want to provide our current and potential researchers with the best information on the conduct of responsible research, dissemination, and translation into practice.

The newsletter will include several sections, and for many of these, we will depend on our investigators to provide material and share their expertise. We hope that you will provide feedback so that we can ensure that the newsletter meets your needs. Briefly, the titles and content summaries of these sections are provided below:

KUDOS recognizes promotions, deployments, awards, journal publications, and final report completions.

SPOTLIGHT on RESEARCH highlights TSNRP-funded projects, written by the investigators. This section will also have a designated spot to report evidence-based practice projects and tips for adapting guidelines into practice.

MANAGING YOUR GRANT is devoted to information regarding regulatory compliance and ethical standards used to conduct research and to help researchers manage grants.

RESOURCE CENTER UPDATE reviews Resource Center activities.

CONFERENCES presents summaries of recent TSNRP-supported meetings.

ANNOUNCEMENTS provides important due dates for proposals and grant camp. We will provide pertinent program updates and other relevant information that will serve our investigators.

GOT QUESTIONS? We are opening a section on our Web site for questions you may have. We will find the best-qualified person and give you answers. Our newsletter will summarize common themes. Got questions? Visit our Resources and Links on our Web site at <http://63.163.230.45/triservice/questions.cgi/>.

Thank you for your continued support of TSNRP.

Deb Kenny, PhD, RN
LTC, AN, USA

FALL/WINTER 2007



TSNRP news is published twice each year by the TriService Nursing Research Program. It is available online at www.usuhs.mil/tsnrp/links/newsletters.shtml.

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Hooah!

(Welcome)

LTC Deb Kenny grew up in Colorado Springs, Colorado, and there hasn't been a single day of her life that she hasn't been "in the military" either as a dependent or on active duty. She received her



LTC Deborah Kenny, AN, USA, PhD, RN, new Executive Director

undergraduate nursing degree from the University of Northern Colorado, a master's in education from Boston University, her MSN in Cardiovascular Nursing from Vanderbilt University, and her PhD in Nursing

from the University of Massachusetts, Amherst.

She has had two tours in the Army and her duty assignments include Silas B. Hays Army Community Hospital, Ft. Ord, California; Fitzsimmons Army Medical Center; Chief Nurse of the 31st Combat Support Hospital, Ft. Bliss, Texas; William Beaumont Army Medical Center; Walter Reed Army Medical Center; and now the TriService Nursing Research Program. Her specialty areas include critical care, oncology, nursing education, and evidence-based practice.

LTC Kenny is active in several nursing organizations. She has served as President-Elect of the Heartland Chapter of the American Association of Critical Care Nurses, is the current President of the federal chapter of Sigma Theta Tau, and is a member of the Evidence-Based Nursing special

interest group of the Eastern Nursing Research Society. Dr. Kenny is a grant reviewer for Sigma Theta Tau International.

Her primary program of research focuses on evidence-based practice and the knowledge translation process. Dr. Kenny is recognized for her knowledge of and work in evidence-based nursing practice at the local and international levels. Currently, she is planning to collaborate with Air Force and Navy researchers to examine issues of nurses who are contributing to the care of injured OEF/OIF soldiers, an area not largely explored.

LTC Kenny's current assignment, as the newest Executive Director of the TriService Nursing Research Program, will offer her many challenges and hopefully, many successes. Please join the staff of TSNRP in welcoming LTC Kenny. Hooah! ★

Fair winds and following seas

TSNRP would like to say a fond farewell to CAPT Patricia Kelley. She served as the Executive Director of the TSNRP for 3½ years. During her tenure, she concentrated on the expansion of many services provided by TSNRP. She refined the Grant Camp program, enlisting the help of nationally known nursing leaders as faculty and mentors for Grant Camp attendees. CAPT Kelley expanded the evidence-based practice initiative started by her predecessor, which resulted in evidence-based guideline development in several regions of the country and throughout all three services. She lined up an impressive pool of scientific reviewers from the civilian nursing community, ensuring that TSNRP grant applications received the most thorough reviews possible. She tirelessly worked behind the scenes to ensure that administrative processes were streamlined and continuous, something that our investigators did not see, but this effort enhanced the implementation of their studies. CAPT Kelley herself put it aptly when she described what she did during those years, "COL Schempp laid the foundation, Lt Col Duong put up the structure, and I filled in the floor plan." Her counsel is still valued and her presence will be missed. We wish her the best of luck in her new faculty position at USUHS. ★



CAPT Patricia W. Kelley, NC, USN, PhD, RN, FNP, GNP, FAANP

Promotions

The following military nurse researchers have been promoted. Join us in extending congratulations to these exceptional men and women.

U.S. Army Nurse Corps

- LTC Jeffrey Ashley to COL
- LTC Lisa Latendresse to COL
- LTC Bruce Schoneboom to COL
- LTC Kim Smith to COL
- LTC Della Stewart to COL
- MAJ Thomas (Ray) Coe to LTC select
- MAJ Laura Feider to LTC select
- MAJ Leigh McGraw to LTC select
- MAJ Lori Trego to LTC

U.S. Navy Nurse Corps

- CDR Patricia W. Kelley to CAPT
- CDR Maggie L. Richard to CAPT
- CDR Jacqueline Rychnovsky to CAPT select
- LCDR Mary White to CDR select

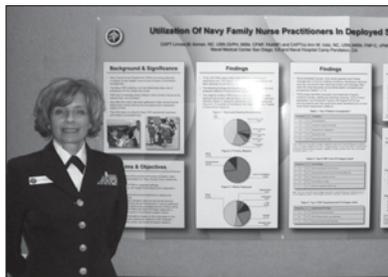
U.S Air Force Nurse Corps

- Lt Col Peggy McNeill to Col
- Lt Col Karen Weis to Col select

Alumni Awards for Navy Nurse Researchers

CAPT Linnea Axman, NC, USN, received the Recent Alumni Achievement Award from George Washington University. This is a recognition given by the University and the George Washington Alumni Association to an alumnus on an annual basis, noting that the recipient has made a lasting impact on society through outstanding professional, voluntary, or philanthropic accomplishments, and has proven potential for future influence and leadership in their field.

CAPT (sel) Jacqueline Rychnovsky, NC, USN, received the Liberty School District Foundation "Honoring Our Own" Outstanding Alumni Award. This distinguished award honors individuals whose deeds and actions exemplify outstanding achievement in their life's work and/or service to their community. Her spirit and leadership are felt worthy of recognition and have inspired praise and gratitude among peers.



CAPT Linnea Axman



CAPT (sel) Jacqueline Rychnovsky

Invited Lecture



COL (ret) Penny Pierce

Col (ret) Penny Pierce presented findings from her TSNRP-supported research on Posttraumatic Stress Disorder (PTSD) at the Heritage to Horizons Women's Training

Symposium. Dr. Pierce is a nationally recognized PTSD expert. She has addressed many audiences across the nation and has been quoted in more than 20 prominent newspapers.

The Symposium, held in Washington, DC, from October 31–November 2, 2007, honored the remarkable contribution of women to the Air Force, past and present, and was part of the Air Force's 60th anniversary. The meeting served as the lead activity for the Women in Military Service for America Memorial's 10th anniversary.

TSNRP Commends Our Deployed and Recently Returned Investigators

Deployed

LTC Denise Hopkins-Chadwick

Recently returned

- COL Jeffrey Ashley
- COL Bruce Schoneboom
- CAPT (sel) Jacqueline Rychnovsky
- CAPT Linnea Axman
- CAPT Min Chung-Park
- CAPT Mark Larsen
- Lt Col Marla DeJong
- LTC Paul Lewis
- LTC Veronica Thurmond

TSNRP Researcher Wins National Institute for Occupational Safety and Health Grant

COL (Ret) Jacqueline Agnew, PhD, RN, a retired Army Reserve nurse, has been awarded a five-year \$5,730,500 grant by the National Institute for Occupational Safety and Health (NIOSH). Dr. Agnew is a professor at the Johns Hopkins Bloomberg School of Public Health, where she directs the Education and Research Center for Occupational Safety and Health.

“This grant provides critical support for the interdisciplinary graduate education of nurses and other occupational and environmental health professionals,” COL Agnew said. “We will continue to enhance our program, which prepares practitioners, researchers, and educators who become leaders in the field.” In existence for 25 years, the Johns Hopkins Education and Research Center is 1 of 16 NIOSH-funded ERCs nationwide that are dedicated to protecting the health and safety of workers.

COL Agnew’s research program, which has been funded by the TSNRP, investigates the family- and work-related stress of Army Reservists. ★

The National Academies of Practice Selects a TSNRP Researcher as Distinguished Practitioner

COL Bruce Schoneboom, PhD, RN, has been elected to the National Academies of Practice as a Distinguished Practitioner in the National Academy of Practice in Nursing. Distinguished Practitioners are individuals who have

spent a significant portion of their professional career as practitioners in the direct delivery and practice of health care to the consumer. Distinguished Scholars are elected for their academic careers; both are judged by the Academy to have made significant and enduring contributions. The National Academies of Practice is the only interdisciplinary group of health care practitioners dedicated to addressing the problems of health care. The National Academies of Practice is dedicated to quality health care for all, serving as the nation’s distinguished interdisciplinary forum on public policy, education, research, and inquiry. ★



COL Bruce Schoneboom

Outstanding Research Podium Presentation Award

COL Richard Ricciardi, PhD, RN, received the “Outstanding Research Podium Presentation Award” for his dissertation findings presentation at the 2007 American Academy of Nurse Practitioners annual conference. His dissertation, funded by TSNRP, was entitled Impact of Body Armor on Physical Work Performance. Ric graduated from the Graduate School of Nursing at USUHS in spring of 2007. ★

TSNRP Researcher Wins Research Competition

LCDR Brent Bushey won the Navy Wide Academic Research Competition held at the Naval Medical Center San Diego (NMCSO) on 18 May 2007. This award, initially focused on medical residents, was expanded in 1989 to include staff and fellows. The competitors in the staff category represented Naval Medical Center Portsmouth, National Naval Medical Center in Bethesda, and NMCSO. LCDR Bushey’s abstract and oral presentation were based on his 2005 TSNRP-funded study, *Resuscitation of Bupivacaine-*

Induced Cardiac Collapse.

Speaking on behalf of the judges, Dr. Stephen L. Farrow, a Veterans Health Care System physician remarked on the difficulty of the judges’ decision because each researcher’s work was clearly “the best of the best.” Congratulations to LCDR Bushey, who has had a permanent change of station from NMCSO and is now a

nurse anesthetist at the Jacksonville Naval Hospital. ★

AMSUS Awards for TSNRP Nurse Researchers

COL Patricia A. Patrician, AN, USA Clinical Nursing Excellence Award

“The Clinical Nursing Excellence Award was established in 1989 to recognize and honor accomplishments and work performance in clinical nursing, resulting in contributions of an outstanding and sustained nature by a nurse, who has had substantial impact on the mission of a Federal Health Agency (AMSUS, 2007).”



COL Patricia A. Patrician

COL Patrician has been recognized as an outstanding clinician, an accomplished Army Nurse Corps leader, a progressive scholar, a superb researcher, and a gifted educator who embodies nursing excellence. ★

**Lt Col Karen L. Weis, USAF, NC
Federal Nursing Service Essay
Award**

“The Federal Nursing Services Award is presented to a professional nurse from the Federal Nursing Services who has submitted an essay on the results of a study or a scholarly paper that would have an impact on nursing (AMSUS, 2007).”

Lt Col Weis received this award for her essay entitled *Individual Growth Models of Prenatal Maternal Adaptation Predict Gestational Age and Infant Birth Weight*. ★

The TriService Nursing Research Program encourages and supports publication of TSNRP-funded research in peer-reviewed journals. Dissemination of findings is critical for the nursing community. PAO clearance is required for all dissemination activities for TSNRP-funded studies. Please remember to send us your PAO clearances and copies of your publications.

Don't forget to include the following credit and disclaimer, along with your Award Number (e.g., MDA or HU xxx-xx-x-xxxx), on your publications and posters:

“This project (or research) is (or was) sponsored by the TriService Nursing Research Program, Uniformed Services University of the Health Sciences; however, the information or content and conclusions do not necessarily represent the official position or policy of, nor should any official endorsement be inferred by, the TriService Nursing Research Program, the Uniformed Services University of the Health Sciences, the Department of Defense, or the U.S. Government. The Uniformed Services University of the Health Sciences (USU), 4301 Jones Bridge Rd., Bethesda, MD 20814-4799 is the awarding and administering office.”

Congratulations to those who have published! If we missed a publication, please let us know.

2006

Bridges, Elizabeth J. (2006). Blast injuries: from triage to critical care. *Critical Care Nursing Clinics of North America*, 18(3), 333–348.

Bridges, Elizabeth J., & Schmelz, Joseph. (2006). Equipment challenges during critical care aeromedical transport. *International Journal of Intensive Care*.

Dremsa, Theresa Lynn, Ryan-Wenger, Nancy A., & Reineck, Carol. (2006). Reliability and validity testing of a short form of the Readiness Estimate and Deployability Index revised for Air Force nurses. *Military Medicine*, 171(9), 879–884.

Hopkins-Chadwick, Denise L. (2006). The health readiness of junior enlisted military women: The social determinants of health model and research questions. *Military Medicine*, 171(6), 544–549.

Joseph, Hyacinth J. (2006). Determinants of prostate cancer screening in a sample of African American military servicemen. *Military Medicine*, 171(5), 430–435.

Joseph, Hyacinth J., Thibault, G. P., & Ruttle-King, J. (2006). Perceived stress and quality of life among prostate cancer survivors. *Military Medicine*, 171(5), 425–429.

Mullen, B. A., & Kelley, Patricia W. (2006). Diabetes nurse case management: An effective tool. *Journal of the American Academy of Nurse Practitioners*, 18(1), 22–30.

Rychnovsky, Jacqueline, & Tatano-Beck, C. (2006). Screening for postpartum depression in military women with the Postpartum Depression Screening Scale. *Military Medicine*, 171(11), 1100–1104.

Williams, Reg A., & Hagerty, B.M. (Eds.). (2006). *Depression research in nursing: Global perspectives*. New York: Springer.

2007

Bridges, Elizabeth, Schmelz, Joseph, & Evers, K. (2007). Efficacy of the Blizzard Blanket or Blizzard Blanket plus Thermal Angel in preventing hypothermia in a hemorrhagic shock victim (*Sus scrofa*) under operational conditions. *Military Medicine*, 172(1), 17–23.



- Dove, M. B., & Joseph, Hyacinth J. (2007). Sociodemographic profile of women entering a military substance use disorder treatment center. *Military Medicine*, 172(3), 283–287.
- Estabrooks, C. A., Kenny, Deborah J., Adewale, A. J., Cummings, G. G., & Mallidou, A. A. (2007). A comparison of research utilization among nurses working in Canadian civilian and United States Army healthcare settings. *Research in Nursing & Health*, 30(3), 282–296.
- Jennings, Bonnie M. (2007). Qualitative analysis: A case of software or ‘peopleware?’ *Research in Nursing & Health*, 30(5), 483–484.
- Jennings, Bonnie M., & Lamb, G. (2007). What critical care nurses need to know about health care access when caring for elders in acute care settings. *Critical Care Nursing Clinics of North America*, 19(3), 253–261.
- Jennings, Bonnie M., Scalzi, C. C., Rodgers, J. D., 3rd, & Keane, A. (2007). Differentiating nursing leadership and management competencies. *Nursing Outlook*, 55(4), 169–175.
- Lawson, L., Bridges, Elizabeth J., Ballou, I., Eraker, R., Greco, S., Shively, J., et al. (2007). Accuracy and precision of non-invasive temperature measurement in adult intensive care patients. *American Journal of Critical Care*, 16(5), 485–496.
- Nelson, Jenenne P., & Pederson, L. (2007). Military tobacco use: A synthesis of the literature on prevalence, factors related to use, and cessation interventions. *Nicotine and Tobacco Research* (in press).
- Pierce, Janet D., Fakhari, M., Works, K. V., Pierce, Janet T., & Clancy, R. L. (2007). Understanding proteomics. *Nursing and Health Sciences*, 9(1), 54–60.
- Pierce, Janet D., Jegathesan, J., Levant, B., Winter, M., McC Carson, K. E., & Clancy, R. L. (2007). Detection of dopamine receptor subtypes in the rat diaphragm. *Heart Lung*, 36(1), 58–63.
- Ricciardi, Richard, Deuster, P. A., & Talbot, Laura A. (2007). Effects of gender and body adiposity on physiological responses to physical work while wearing body armor. *Military Medicine*, 172(7), 743–748.
- Ricciardi, Richard, & Talbot, Laura A. (2007). Use of bioelectrical impedance analysis in the evaluation, treatment, and prevention of overweight and obesity. *Journal of the American Academy of Nurse Practitioners*, 19(5), 235–241.
- Rychnovsky, Jacqueline D. (2007). Postpartum fatigue in the active-duty military woman. *Journal of Obstetric, Gynecologic, & Neonatal Nursing*, 36(1), 38–46.
- Schmelz, Joseph O., Bridges, Elizabeth J., Wallace, C. M., Sanders, S. F., Shaw, T., Kester, N., et al. (2007). Comparison of three strategies for preventing hypothermia in critically injured casualties during aeromedical evacuation. *Military Medicine*, 172(3), 322–326.
- Staggers, Nancy, Kobus, D., & Brown, C. (2007). Nurses’ evaluations of a novel design for an electronic medication administration record. *Computer Informatics Nursing*, 25(2), 67–75.
- Trego, Lori L. (2007). Military women’s menstrual experiences and interest in menstrual suppression during deployment. *Journal of Obstetric, Gynecologic, & Neonatal Nursing*, 36(4), 342–347.
- Williams, Reg A., Hagerty, B. M., Andrei, A.-C., Yousha, S. M., Hirth, R. A., & Hoyle, K. S. (2007). STARS: Strategies to assist Navy recruits’ success. *Military Medicine*, 172(9), 942–949.
- Zangaro, George A., & Soeken, K. L. (2007). A meta-analysis of studies of nurses’ job satisfaction. *Research in Nursing & Health*, 30(4), 445–458.

Final Reports, the Last Requirement of Your Award Congratulations!

TSNRP has a rigorous final report review process. Nurse scientists review all final reports to ensure that the report demonstrates complete and scientific execution of the research plan. The reviewer may make recommendations for amendments to the report. The TSNRP Executive Director (ED) reviews the recommendations. If the ED agrees with the reviewer, the TSNRP staff will send the report and the recommendations to the investigator. Amended reports are to be returned to TSNRP within 4 weeks. We have engaged an editorial staff who reviews the reports and makes format changes and grammar/spelling corrections. Corrections are captured in track changes. The PI can accept or reject the suggested editorial changes and return the document to TSNRP. We notify the PI and their grantee organization after the report is posted on the National Technical Information Service Web site (NTIS) and the abstract on the Cumulative Index of Nursing and Allied Health Literature (CINAHL®) database. It is a long and arduous process that enables global access to TSNRP-funded study results.

Congratulations to the following principal investigators for completing the final report process!

3 Year Awards

MAJ Paul Lewis, AN, USA (1999), “Community-Based Smoking Prevention in Military Schools”

Col (ret) Marilyn Ray, USAF, NC (2000), “Economic and Patient Outcomes of the Nurse-Patient Relationship”



Maj (ret) Linda Schwartz, USAF, NC (2000), "The Vietnam Nurse Health Study"

LTC Kimberly Smith, AN, USA (1999), "Evaluation of Staff's Retention of BCLS and ACLS Skills"

2 Year Awards

COL Laura Brosch, AN, USA (1999), "Preventable Hospitalization in Older Military Retirees"

COL Dennis M. Driscoll, AN, USA (2001), "Nursing Retention of Trauma Resuscitative Skills"

CDR Janet Pierce, NC, USNR (2002), "Dopamine Alleviation of ROS Mediated Diaphragm Fatigue"

Col (ret) Nancy Staggers, USAF, NC (1999), "Validating Mobilization Competencies for Air Force Clinical Nurses"

Lt Col Karen Weis, USAF, NC (2002), "Military Families: Psychosocial Adaptation to Pregnancy"

LCDR George A. Zangaro, NC, USN (2002), "Factors Associated with Retention of Nurses: Phase I Instrument Testing"

1 Year Awards

MAJ Carlton Brown, AN, USA (2001), "Increasing Testicular Self-Examination in Active Duty Soldiers: An Intervention Study"

LTC Elmer W. Combs, AN, USA (2002), "Musculoskeletal Injury in AMEDD Soldiers"

Maj Stephen Mazer, USAF, NC (1999), "Skin Interface Pressure Associated with the NATO Litter"

Col (ret) Mary Candice Ross, USAFR, NC (2003), "Recruitment Decision Making for Military Nursing Careers"

Pilot Study Award

Lt Col Marilee Edwards, USAF, NC (2001), "Pharmacokinetics and Safety of Ginger"

Research Fellow Award

Lt Col Theresa Dremsa, USAF, NC (2003), "Instrument Development and Psychometric Training"

Graduate Awards

LTC Petra Goodman, AN, USA (2002), "A Test of a Model of Care Seeking in Military Women"

LTC Denise L. Hopkins-Chadwick, AN, USA (2004), "Motherhood, Stress and Role Strain in Junior Enlisted Women."

Congratulations to the Winners of the Karen A. Rieder Research/Federal Nursing Poster Session, AMSUS 2007

The Karen A. Rieder Research and Federal Nursing Poster Session was held in Salt Lake City, Utah, on 12 November 2007. Approximately 100 posters were presented. All abstracts were reviewed for Scientific Merit and Significance to Nursing. Congratulations to the top scoring abstracts!

Karen Rieder Research Posters (Alpha listing by primary author)

Angelica Almonte, CDR, NC, USN
Humanitarian Nursing Challenges: A Grounded Theory Research Study on Navy Nurses' Experiences

Mona Bingham, LTC, AN, USA, & Jeffrey Ashley, COL, AN, USA
Implementing Best Practices to Decrease Nosocomial Ventilator Associated Pneumonia

Thomas Ceremuga, LTC, AN, USA
Evaluation of the Anxiolytic Effects of L-Theanine, a Green Tea Extract, in the Male Sprague-Dawley Rat

Lori Loan, PhD, RN, & Mary McCarthy, MAJ, AN, USA (Ret)
Army Nurse Corps Officers' Deployment Reintegration Experiences & Expectations

Patricia Patrician, COL, AN, USA, & Eileen Lake, PhD, RN
Organizational Determinants of Quality Care and Nurse Job Outcomes Among Army Medical Department (AMEDD) Registered Nurses (RNs)

Federal Nursing Posters (Alpha listing by primary author)

Linnea Axman, CAPT, NC, USN, & Sara Marks, CAPT, NC, USN
Development of an Evidence-Based Practice Evaluation of Two Nurse-Run Interventions for Blood Pressure Control: A Public-Private Collaboration

Teresa Duquette-Frame, MAJ, AN, USA; LTC Cindy Campbell, LTC, AN, USA; & Rich Morton, MAJ, AN, USA
Critical Care Standards for Tactical MEDEVAC Transports

Laura Feider, MAJ, AN, USA
Pilot Test of a Survey of Oral Care Practices for the Orally Intubated Adult Critically Ill

Myrna Mamaril, CAPT, NC, USN, & Joseph Burkhart, CAPT, NC, USN
An Evidenced-Based Practice Study on the Prevention and Management of Postoperative Nausea and Vomiting: Incorporating Complementary Techniques in National Perianesthesia Clinical Practice Guidelines

Walter Patterson, RN; Denise Hopkins-Chadwick, LTC, AN, USA; & Donna L. Schanck, RN
An Evidence-Based Clinical Intervention Strategy to Improve Patient and Family Education on a Medical/Surgical Inpatient Unit



Pain and Sleep Disturbance in Soldiers with Extremity Trauma

COL Stacey Young-McCaughan, AN, USA, RN, PhD, Principal Investigator



COL Stacey Young-McCaughan

As of October 2007, more than 13,000 troops have been wounded in action and not able to return to duty as a result of Operation Enduring Freedom (OEF)

or Operation Iraqi Freedom (OIF). Although a greater percentage of soldiers are surviving, new challenges face these individuals and the medical personnel caring for them. Injured soldiers face the prospect of repeated surgeries, long recoveries, risks of complications, and psychological challenges associated with making sense of their service and injury. Information about the expectations for recovery and rehabilitation from war wounds has not been systematically studied. Two concerns specific to nursing staff who care for injured soldiers are pain management and sleep disturbance. The purpose of this study is to prospectively assess pain and sleep disturbance in soldiers with extremity trauma sustained during service in OEF or OIF.

To date, 130 participants have been recruited. A preliminary analysis of the baseline data collected at discharge from the hospital of the first 79 participants is reported here. All but one

of these are male ($n = 78, 99\%$). Ages of the participants range from 19 to 40 (mean = 26, ± 5.3). Almost all had completed high school ($n = 77, 98\%$); 60% ($n = 47$) are Caucasian; and 54% ($n = 43$) are married. Almost all serve in either the Army ($n = 66, 83\%$) or the Marines ($n = 9, 11\%$) as part of the active component ($n = 71, 90\%$). The majority of the service members were injured in Iraq ($n = 69, 87\%$). Forty-two (54%) had primarily orthopedic injuries (including 31 who had undergone one or multiple amputations), 33 (42%) had primarily burn injuries, and 4 (5%) had a combination of both orthopedic and burn injuries. Upon discharge from the hospital (at study baseline), 76 reported pain at one site and 55 reported pain at two or more sites, rating their pain an average of 4 (± 1.9) on a 0–10 visual analog scale, for an average of 10 hours per day (± 8.8), an average of 5 days per week (± 2.3). Alert values were determined for pain, sleep disturbance, anxiety, and depression.

Two-thirds of the participants ($n = 53, 67\%$) reported two, three, or four symptoms above the alert values. Only eight participants (10%) reported no symptoms above the alert values. Comparing the participants with no symptoms or only one above the alert value ($n = 26, 33\%$) to those with two or more symptoms above the alert value ($n = 53, 67\%$), significant differences ($p < .01$) were found in post-traumatic stress scores as well as health status. Most interesting, the symptom experience appears unrelated to the type or physiologic severity of injury. This very preliminary data analysis points to the importance of symptom assessment and management at discharge to

assist service members in improving their health outcomes through rehabilitation. ★

This research is sponsored by the TriService Nursing Research Program, Uniformed Services University of the Health Sciences; however, the information or content and conclusions do not necessarily represent the official position or policy of, nor should any official endorsement be inferred by, the TriService Nursing Research Program, the Uniformed Services University of the Health Sciences, the Department of Defense, or the U.S. Government.

Hemorrhagic Shock: Effects of Dopamine on the Diaphragm

CAPT Janet Pierce, NC, USNR, RN, PhD, Principal Investigator

Our overall goal in this study is to examine the effects of dopamine on the diaphragm following hemorrhagic shock. We are able to measure diaphragm performance during and following hemorrhagic shock using an animal model. This year we have been examining different fluid resuscitation treatments (i.e., lactated Ringer's [LR], Hextend, dopamine) to determine the best intervention following hemorrhagic shock to improve diaphragmatic function. The purpose of this study is to understand the mechanism(s) by which dopamine, when administered following hemorrhagic shock, improves diaphragm performance by measuring physiologic (diaphragm contractility and blood flow) and molecular damage (apoptosis) parameters.



In our preliminary findings, we have found a significant difference in diaphragm shortening at hemorrhagic shock within each group. This suggests that the animal compensates during low cardiac output states, thus increasing diaphragm contractility to maintain oxygenation. We have also found that the lactated Ringer's, the standard fluid treatment for hemorrhagic shock, yields a higher percentage of diaphragm apoptosis than the other fluids. As we hypothesized, diaphragmatic apoptosis is significantly decreased following 30 minutes of 10 µg/kg/min administration of dopamine. Hextend (colloid), with and without dopamine, appears to also attenuate apoptosis in the diaphragm. Surprisingly, we have found that if animals arrest during hemorrhagic shock, it is from respiratory failure before cardiac arrest.

The innovative approach in this study is the measurement of physiologic variables and cellular markers to determine the effects of dopamine on diaphragm performance. Thus, the administration of dopamine with the other resuscitation fluids may improve outcomes for patients following hemorrhagic shock and prevent respiratory arrest. ★

This research is sponsored by the TriService Nursing Research Program, Uniformed Services University of the Health Sciences; however, the information or content and conclusions do not necessarily represent the official position or policy of, nor should any official endorsement be inferred by, the TriService Nursing Research Program, the Uniformed Services University of the Health Sciences, the Department of Defense, or the U.S. Government.



Dr. Susan L. Woods and Lt Col Elizabeth Bridges

Operational Nursing Guide

Lt Col Elizabeth J. Bridges,
USAF, NC, PhD, RN,
Principal Investigator

TSNRP is funding the development of an evidence-based guidebook for operational nursing. This pocket guide will provide concise ready references and information on topics such as the care of casualties with blast injuries, soft tissue or orthopedic trauma, neurological injuries, and acute cardiac conditions. Examples of other sections include infection control under field conditions, considerations for patients who require transport or aeromedical evacuation, pain management, psychological first aid, hypothermia prevention, and culturally appropriate terminology. Input on topics has been sought from expert practitioners. This manual, which fits in the pocket of a military uniform, provides current care and evidence-based recommendations. The manual is not meant to replace regulations or procedures, but to provide nurses with a ready source of information specific to operational nursing care. Publication is expected in early 2008. ★

Managing your Grant

IRB Submission Advice

Frequently, research teams have questions about what constitutes a "complete package" for submission to TSNRP/USU secondary review. In collaboration with the USU IRB liaison, we have designed a "Secondary IRB Documents Checklist" that provides guidance for which documents are required for specific approvals. The checklist is a reference document only. It is not necessary for the research team to submit the checklist. You can find this document at www.usuhs.mil/tsnrp/forms/.

Let Us Know

Do you have a new address, new phone number, new e-mail address? Let us know. It's easy and quick. Just visit our Web site at www.usuhs.mil/tsnrp/ and click on Update Contact Information, complete the form, and click the send button.



Resource Center Receives Kudos from Happy Campers

The August 2007 course on Research Development for Novice Researchers concluded with effusive comments from participants: *“This was the best training course I have ever attended. Faculty guidance about how to move from step to step helped push me along when I was just spinning wheels,”* (LCDR Johnnie Holmes). *“This program is very appropriate for our level and two days is just right,”* (LCDR Jeanne Sarmiento and LCDR Naomi Domingo). *“I have been very interested in research but have had almost no previous training; this course has stimulated my appetite and provided me with a broader perspective about research,”* (CPT Rene De La Rosa). *“Concrete information about resources with actual names of contacts and mentors is invaluable,”* (Maj Abdol Hajiaghamohseni).

The Resource Center is the educational and training arm of TriService Nursing Research Program (TSNRP), the country’s first and only federal program promoting military nursing research. TSNRP awards research grants to qualified Nurse Corps officers in the Army, Navy, Air Force, and National Guard. The Resource Center offers grant writing workshops in a “summer camp” setting for nurse researchers at different levels of development. **Research Development for Novice Researchers** is open to all military nurses interested in research.

At **Grant Camp**, eligible applicants with research training or experience submit a well-developed, researchable question and an integrative review of literature and research design. The

applicant states the significance of the research question, its contribution to science, and how it fits within the TSNRP priorities as determined by the Corps Chiefs. A panel of experts reviews submissions. Participation is by invitation. The application deadline for next year’s session is 11 February 2008.

Grant Camp consists of two sessions. The first takes advantage of the library facilities and resources of the Uniformed Services University of the Health Sciences (USU) for the week-long didactic sessions, one-on-one consultation with faculty, and group work. The focus is on developing, revising, and refining the research question. The goal is to produce a proposal that is scientifically sound, researchable, militarily unique and/or relevant, and fundable. The faculty includes subject matter specialists and seasoned researchers ready to lend their expertise to assist participants in meeting the goal.

“I have been very interested in research but have had almost no previous training; this course has stimulated my appetite and provided me with a broader perspective about research.”

CPT Rene De La Rosa

In the second session, participants who successfully applied lessons learned in session 1 are invited to a 2-day workshop in San Diego, California, for another opportunity to review and revise their proposals so they are ready to submit for funding.

“This was the best training course I have ever attended. Faculty guidance about how to move from step to step helped push me along when I was just spinning wheels.”

LCDR Johnnie Holmes

Attendance at Grant Camp does not guarantee funding.

Other programs of the Resource Center include **Advanced Grant Camp for Seasoned Researchers**, the **Writing for Publication workshop**, and regional research centers for evidence-based practice, also known as **Research Pods**. The Resource Center also provides substantial support for military nursing research through collaboration with other agencies in activities such as the **Pacific Nursing Research Conference**, the **Karen Rieder Research/Federal Nursing Poster Session at AMSUS**, and the **Phyllis J. Verhonick Research Course**.

By setting up a TSNRP booth at national and international nursing conferences, the Resource Center reaches out to military nurses and their associates in academia to inform them about research training and funding opportunities available to military nurses. This also allows TSNRP to tap into a network of subject matter specialists who could potentially serve on TSNRP’s board of reviewers.

Please visit www.usuhs.mil/tsnrp for more information about the Resource Center and its programs. Grant Camp applications are available at www.usuhs.mil/tsnrp/rcemn/activities. ★

Advanced Practice Institute: Promoting Adoption of Evidence-Based Practice

Evidence-Based Nursing Practice (EBP) is the process by which nurses make clinical decisions using the best available research evidence, their clinical expertise, and patient preferences. CAPT Patricia W. Kelley, PI, in collaboration with CAPT Maggie L. Richard, LTC Deborah Kenny, Lt Col Elizabeth Bridges, Dr. Marita Titler, and Ms. Laura Cullen, conducted a 3-day Advanced Practice Institute: Promoting Adoption of Evidence-Based Practice from 29–31 August 2007 at the Uniformed Services University of the Health Sciences. Sixteen Army, Navy, and Air Force nurses attended. Participants learned and applied the principals of EBP assessment, evaluation, and implementation. The workshop gave attending nurses 24 continuing education contact hours. It was one in a series of workshops and meetings designed to foster excel-

lence in military nursing care through practice guided by the best evidence, tailored to specific military and civilian patient populations.

Dr. Titler and Ms. Cullen are internationally recognized EBP experts. Dr. Titler, a fellow in the American Academy of Nursing, has published and spoken nationally and internationally on evidence-based practice outcomes management and translation science. Ms. Cullen develops and facilitates educational programs to promote development, integration, and dissemination of evidence-based nursing practice at the University of Iowa Hospital and Clinics.

Because of the TriService Nursing Research Program initiative, “Evidence-Based Nursing Practice,” training and research initiatives have evolved over the past 5 years, resulting in over 20 EBP protocols that will soon be available to be shared across the military health care system. All hospital-based military nurse researchers have been trained in the Iowa method of EBP classification and dissemination. Nationally, this initiative has developed five regional nursing research



Distinguished faculty. Back row: Dr. Marita Titler, Lt Col Elizabeth Bridges, LTC Deborah Kenny; front row: CAPT Maggie L. Richard, CAPT Patricia W. Kelley, Ms. Laura Cullen

centers (PODS) to support EBP in the military health care system. Through the PODS, doctoral-level nurses lead teams of nurses with masters and baccalaureate degrees as they seek to improve patient care through the systematic evaluation of the literature and application of the evidence in day-to-day nursing care delivery. This grant program has enabled the education of more than 200 military and civilian nurses, enabling them to fulfill the TriService Nursing Research Program research priority, “Generating and Translating Knowledge and Research Findings into Practice in a Military Context.” ★



Esteemed students and faculty. Back row: CDR Greg Nezat, NC, USN, Lt Col Elizabeth Bridges, USAF, NC, CAPT Maggie L. Richard, NC, USN, Maj Candy Wilson, USAF, NC, LTC Deborah J. Kenny, AN, USA. Fourth row: Dr. Marita Titler, LCDR David Crumbley, NC, USN, LTC Petra Goodman, AN, USA, Capt Stephanie Chirio, USAF, NC. Third row: Maj Susan Perry, USAF, NC, COL Ernest Degenhardt, AN, USA, LTC Gary Lang, AN, USA. Second Row: CAPT Patricia W. Kelley, NC, USN, LTC Teresa Hendrix, AN, USA, LTC Kathy Prue-Owens, AN, USA, MAJ Nancy Steele, AN, USA, LCDR Michele Kane, NC, USN. Front row: Ms. Laura Cullen, LTC Lori Trego, AN, USA, CDR Andrea Parodi, NC, USN, LCDR Jennifer Ward, NC, USN

TriService Nurses Reach Out to Civilian Nurses

The Maryland Nurses Association 2007 Annual Convention

Seven military nurses provided exceptional educational and outreach opportunities for attendees at the 104th Maryland Nurses Association Convention held 18–19 October 2007 at the Maritime Institute in Linthicum, Maryland. The overarching conference theme was “Maryland Nurses: Driving Health Care Change.”

CAPT Patricia W. Kelley, NC, USN, CAPT Maggie L. Richard, NC, USN, and LTC Deborah J. Kenny, AN, USA, presented the findings from their implementation and execution of evidence-based practice (EBP) initiatives at two Washington, D.C., area military hospitals. The nurses focused on their work with falls preventions and DVT prevention. They included information about team building and strategies to garner organizational support for the initiatives. Drs. Kelley, Richard, and Kenny are experienced EBP researchers. They received their training as EBP consultants at the University of Iowa’s Advance Practice Institute: Promoting Adoption of Evidence-Based Practice under the direction of Dr. Marita Titler.

COL Bruce Schoneboom, AN, USA, presented “Nursing Leadership in the Military.” Dr. Schoneboom discussed the leadership skills needed in peacetime and in wartime. He discussed how essential it is that nurses take leadership roles to create a dynamic, safe, and effective health care environment for our patients.

COL Schoneboom is highly qualified to discuss Nursing Leadership. He has held numerous faculty and leadership positions, including Faculty Department Chair and director of the Nurse Anesthesia Program at the Graduate School of Nursing, Uniformed Services University of the Health Sciences (USU). He recently returned from a 1-year deployment to Afghanistan in support of Operation Enduring Freedom VII where he served as the detachment commander for the 14th Combat Support Hospital. He is currently an associate professor in the Graduate School of Nursing and the School of Medicine at USU. He will serve as the interim dean for the Graduate School of Nursing, effective January 2008.



Col John Murray, USAF, NC

Col John Murray, USAF, NC, addressed ethical issues related to workplace harassment. Dr. Murray provided definitions and scenarios that illuminate workplace abuse and its consequences. He led the participants in lively discussions about the reasons for workplace abuse and methods that nurses can use to protect themselves.

Col Murray is president of the Federal Nurses Association and director, consultant to the U.S. Air Force Surgeon General for Research, and a member of the Joint Task Force National Capital Region Medical Command. He has published articles in peer-reviewed journals on workplace abuse and

harassment of nurses and is now working on legislation to protect nurses who report workplace abuse and harassment.

Col Susan Hanshaw, USAFR, NC, reminded participants that there is much that many don’t think about when seeing the coffin of one of our fallen heroes. Her presentation, “Honor after the Fall,” illustrated the raw reality of military combat. She described the forensic efforts made to transform what the battlefield gives up into honored remains in an effort to support the families whose loved ones have given their all.

The military port mortuary at Dover Air Force Base is the only military mortuary in the continental United States. Since its creation in 1955, it has been the primary receiving point for America’s battlefield dead. The remains of the fallen, wrapped in body bags and encased in ice-laden metal transfer cases, descend from the sky aboard gray military planes. They are met at the airstrip by an honor guard, a chaplain, and a small motorcade of blue vans. The chaplain prays while the honor guard drapes a flag over each coffin and escorts it to the vans to the Dover Air Force Base Port Mortuary. There the remains are identified, autopsied, embalmed, clothed in dress uniforms, placed in coffins, and shipped to grieving relatives in the company of military escorts.

Col Hanshaw discussed the advances made to identify causes of death and confirm identification of the fallen. The advances demonstrate respect for the fallen. The virtual autopsy is used to analyze wound tracks, metallic fragments, and wound ballistics. It saves time, eliminates the need for exploratory cutting, and provides injury or ballistic localization in 3-D view that is



precise to 1/10 mm. Information from the virtual autopsy has led to equipment changes to improve survivability on the battlefield.

Col Hanshaw discussed the work of the Mortality Surveillance Division, which collects reports of all DoD active duty deaths in real time, investigates initial reports, provides responses if necessary, collects medical causes and circumstances of death for all cases, and maintains a database for surveillance research into specific types or causes of death. The Division conducts analysis and reporting to ensure that intervention occurs when indicated.

Col Hanshaw is the director, Medico-legal Education and Training, Armed Forces Medical Examiner System. She is currently on a military personnel appropriations tour in support of the Global War on Terrorism at the Armed Forces Medical Examiner System in Rockville, Maryland. As a forensic nurse consultant and educator, she provides consultation and educational

support to the Mortuary Affairs Center at the U.S. Army Quartermaster Center and School at Fort Lee, Virginia.

1LT Jillian Murphy, AN, USA, presented “From Baltimore to Afghanistan: One Nurse’s Experience” describing her deployment into Afghanistan immediately upon graduation from nursing school. She discussed the high rate of maternal death secondary to childbirth (1 in 7), the absence of women’s rights to move beyond their homes, and the sight of children caring for children. 1LT Murphy described the native population as positive and upbeat despite the years of turmoil. She discussed humanitarian activities conducted by the U.S. military forces, including efforts to bring upgrades to medical clinics, such as medications, equipment, and supplies. Since her return, 1LT Murphy has spent over a year working almost exclusively with a population of wounded soldiers from Operations Enduring Freedom and Iraqi Freedom. She discussed caregiver

fatigue that affects the nursing staff caring for the injured, but said that the wounded provided her with inspiration and drive to continue her work.

1LT Murphy came to the United States about 13 years ago through a lottery in Ireland held after she graduated from the National University of Ireland in Galway City and before the economic boom that Ireland enjoys today. She enlisted in the U.S. Army reserves and graduated from the Johns Hopkins University School of Nursing. She deployed to Afghanistan before receiving her officer commission. 1LT Murphy told the participants that she is very proud to be able to serve in the military and feels a great sense of gratitude to the United States.

All speakers enjoyed overwhelmingly positive responses to their presentations. Their presentations were their own opinions and did not necessarily reflect the position of the Department of Defense, the U.S. Army, the U.S. Navy, or the U.S. Air Force. ★

Announcements

November 2007

AMSUS, November 11–16, 2007, Salt Lake City, Utah

Karen Rieder Poster Session, November 12, 2007, AMSUS

February 2008

2008 Grant Camp Submission

Deadline: February 11, 2008

Notification: March 17, 2008

Application is available on our Web site at www.usuhs.mil/tsnnp/rccmn/activities/.

Southern Nursing Research Society,

February 21–23, 2008,

Birmingham, Alabama

March 2008

Proposals for the FY2008B Call, are due in the TSNRP offices by 1600 EST, March 4, 2008.

Eastern Nursing Research Society 20th Annual Scientific Sessions, March 27–29, 2008, Philadelphia

April 2008

50th Anniversary Western Institute of Nursing Conference, April 17–19, 2008 Garden Grove, California

May 2008

Phyllis J. Verhonick Research Course, May 12–16, San Antonio

Grant Camp I, May 18–23, 2008, Bethesda, Maryland

August 2008

FY 2009 Call for Proposal published August 2008 (Dates may change; please watch the Web)

Grant Camp II, August 5–6, 2008, San Diego

Novice Camp, August 7–8, 2008, San Diego

Post-Award Grant Management Workshop, August 11–13, 2008, San Diego

Meet the STAFF

TSNRP has an excellent staff, hired to help its researchers meet proposal-writing standards, provide continuing research education, facilitate research dissemination, and manage grants per the federal and Department of Defense rules and regulations. You have likely had contact with them, but do you know about them? Probably not. So, we introduce to you the staff of TSNRP.



**Maria Burcroff, M.A., B.A.,
Resource Center Manager**

Ms. Burcroff began her service at TSNRP in 2001, the year the Resource Center was established and Grant Camp in its present form was initiated. She coordinates a series of grant-writing courses, publication workshops, and outreach activities. She previously worked as a field interviewer on a Peace Corps evaluation project in Asia under the auspices of the University of Hawaii and Ateneo University, Philippines, where she was on the faculty of the Department of Sociology and Anthropology. Her own research focused on baseline studies in communication, nutrition, and housing. Among Ms. Burcroff's accomplishments was drafting the Philippine Paper on the Status of Women presented at the First World Conference on Women, First International Women's Year, in Mexico City.

Ms. Burcroff earned her bachelor's degree at the University of the Philippines in sociology and her master's degree in anthropology at Ateneo University, a Jesuit university renowned in the area. She further enriched her education with the study of Japanese and cultural history at Sophia University in Tokyo, and spent 3 years on the staff of *Monumenta Nipponica*, a journal of Japanese culture.

Ms. Burcroff served as a cross-cultural consultant to Youth for Understanding, an international student exchange program, and volunteered as a resource for cultural understanding in the Fairfax, VA, public school system for many years. ★



**Elizabeth W. Tordella, M.S., R.N.,
Program Manager**

Mrs. Tordella became the TSNRP Program Manager in 2004, bringing to the role more than 20 years of executive-level management experience. She previously worked with the Henry M. Jackson Foundation, where she served in a variety of positions, culminating as the Project Manager for Distance Continuing Education, Office of Continuing Education for Health Professionals, at the Uniformed Services University of the Health Sciences, Bethesda, Maryland. Prior to her service there, Mrs. Tordella was a clinical nurse in Behavioral Health Services at Suburban Hospital, in Bethesda.

Mrs. Tordella earned her master's degree in nursing health policy at the University of Maryland, Baltimore, where she is currently completing her Ph.D., likewise in health policy. She serves as the Treasurer of Sigma Theta Tau, Kappa; is on the Board of Directors for the Maryland Nurses Association; and is a member of the editorial board of the *Maryland Nurse* newspaper. Among her many honors and awards, Mrs. Tordella is a recipient of a Maryland House of Delegates Resolution Honoring Nurse of the Year Award from the Maryland Nurses Association; was named Nurse of the Year by the Maryland Nurses Association, District 5, in 2001; and received the Maryland Nurses Association District 5 Excellence in Nursing Legislation, 2006, and the Uniformed Services University of the Health Sciences Project Excellence Award in 2001 and 2004. ★



Pamela Moses, M.H.A., B.S.N., R.N., Senior Grants Manager

Mrs. Moses started her service with TSNRP in 2005, bringing her 27 years of nursing and organizational development experience to her role as grants manager. Prior to joining TSNRP, she managed capacity building interventions and education for HIV/AIDS care providers through a Health Resources and Services Administration (HRSA) grant at Howard University. Although no longer active in patient care, Mrs. Moses maintains a strong customer service philosophy, which guides her relationships and correspondence with grantee organizations, principal investigators, and their teams. She is responsible for processing proposals prior to funding, participating in planning Scientific Review Meetings, and the award notification process. Mrs. Moses also manages a portfolio of grants, assuring that the federal regulations are followed that govern the use of Congressionally appropriated funds in such areas as changes in study protocols and personnel, study time lines, human subjects protections, and programmatic management.

Mrs. Moses has held a number of clinical positions in Washington, D.C., area hospitals, including staff nursing and teaching roles. She earned a bachelor's degree in nursing and a master's in health services administration, both at Howard University. Mrs. Moses enjoys reading, cooking, dancing, and skating with her family. ★



Debra Chambliss, B.S., Grants Management Specialist

Ms. Chambliss came to TSNRP in 2006, bringing with her more than 20 years experience in organizational development, and a broad knowledge of medical administrative procedures and practices. She is directly responsible for management of final reports for all TriService Nursing Research Program studies. She also interprets and applies regulations and policies covering the programmatic management of a portfolio of research studies.

Ms. Chambliss joined TSNRP upon her retirement from the United States Navy as an administrative health care manager. She has extensive experience with medical education, research, disaster medicine, and military medical readiness. She holds a bachelor's degree in health care management from Southern Illinois University and is currently attaining her master's degree in organizational development from American University. Ms. Chambliss is an active fitness enthusiast who enjoys weightlifting and runs 25 to 40 miles a week with her local running club. ★



Maritza Aviles, B.S., Executive Assistant

Ms. Aviles came to TSNRP in 2006, a veteran of 13 years as a federal employee, with experience at the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) where she was a lab manager and then a grant technical assistant, involved in managing extramural NIDDK grants. Ms. Aviles now puts her many skills to work for TSNRP, with responsibilities that include handling all invoicing, processing grant agreements, and sending out notification letters, among many other tasks. She has also worked for the U.S. Army and U.S. Navy in Germany and other parts of Europe.

Ms. Aviles earned her degree in business administration from the Colegio Universitario del Turabo, in Puerto Rico. She subsequently worked at the Patent and Trademark Office (PTO) in the Department of Commerce as a legal examiner for the PTO Board of Appeals. Ms. Aviles is an avid ballroom dancer and has participated in numerous competitions in the past. ★



Got Questions?

If you have questions, visit our Resources and Links section on our Web site at <http://63.163.230.45/triservice/questions.cgi/>. We will find the best qualified person and send answers to your questions. The next newsletter will contain summaries of commonly asked questions.



Know your Specialty Leaders

Your specialty leaders are a valuable resource for current research requirements and initiatives throughout the military, Department of Defense, and the Federal Nursing Service.

U.S. Army

Colonel Stacey Young-McCaughan, AN, USA

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Fostering excellence in military nursing through research