



# TriService Nursing Research Program 2023 ANNUAL REPORT



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# TriService Nursing Research Program

Expanding Impact - Snapshot By the Numbers



The TriService Nursing Research Program enables the operational readiness, health, and care of warfighters by advancing military nurse scholars, nursing research, and Evidence-Based Practice in the Military Healthcare System.

## RESEARCH & DISSEMINATION

**11** Research Awards ▶ **5** Mini-EBP Awards ▶ **32** Journal & Books ▶ **226** Posters & Presentations

**\$3,769,286 Total Awards**

## EVIDENCE-BASED PRACTICE

### 4 Facilitators

Full time EBP experts who teach and mentor

### 21 Consults

for Military Treatment Facilities (MTFs)

### 23 Workshops

Nearly 1000 attendees

### 47 Projects

Mentored at 15 MTFs

## RESOURCE CENTER

### 5 Webinars

Care of the Family & Women in Combat

### 7 CE Courses

122.91 nursing contact hours

### 8 Nursing Grand Rounds

123 attendees

## SCIENTIFIC MENTORSHIP

**6**

Research Interest Groups

**6**

Post Doctoral Nursing Research Fellows

**11**

Scientific Research Mentors

**9**

Early Career Investigators Juniors Nurses & Cadets

## COLLABORATIONS

**13**

Executive Leadership Briefings

**15**

Civilian Universities

**17**

DoD Partners

**700**

DHA Facilities

## FUNDED STUDIES BY SERVICE



Army  
5 Studies  
**\$2,537,933**



Navy  
3 Studies  
**\$816,353**



Air Force  
3 Studies  
**\$415,000**



# Value to U.S. National Defense

**TSNRP is Congressionally authorized to fund scientific research by military nurses (S.R. 107-732) in support of American warfighters and their families on the battlefield and at home.**

TSNRP is the only program to fund rigorous military nursing research and EBP projects that saves lives, solves complex problems, and improves healthcare in collaboration with the Army, Navy and Air Force. In addition to contributing to the national defense, findings of funded research ultimately benefits healthcare outcomes for all Americans.

Military nursing research solves challenges such as:

- Unique operational settings for healthcare delivery, including disasters and operational environments
- Mission readiness and performance of Service members
- Patterns of illness, stress, and injury
- Occupational and environmental hazards that affect health and readiness
- Cost-effective delivery of high-quality, evidence-based healthcare
- Innovation to improve medical outcomes
- Improvement of delivery systems and processes to enhance warfighters' ability to survive, thrive, and remain fit for duty

As a partner to the Department of Defense, centered at the Uniformed Services University, TSNRP identifies the most innovative and collaborative research that promises significant, positive impact on the lives of military personnel and their families. Plus, the program produces education to advance military nurses' knowledge, networks, and capacity to provide evidence-based nursing care at home and on the frontline.

# Funding by Research Priorities

*Aligned with U.S. Defense Strategy*

**In FY2023, the number of awards issued were 7x greater than 2022.**

Focused on the pursuit of excellence in military nursing, and aligned with the Surgeons General from each military service and the Defense Health Agency, research priorities are approved by the TSNRP Executive Board which is comprised of the Nurse Corps Chiefs from the Army, Navy, and Air Force.

**Quantitative and qualitative studies are supported on operational and deployment health topics in the following strategic areas:**



### Force Health Protection

8 Research Projects

Fit and ready force  
Care for all entrusted to our care  
Deploy with & care for warrior



### Nursing Competencies & Practice

2 Research Projects

Patient outcomes  
Quality and safety  
Clinical excellence  
Knowledge management  
Education and training  
Translate research into Evidence-Based Practice



### Leadership, Ethics, & Mentoring

1 Research Project

Patient outcomes  
Quality and safety  
Clinical excellence  
Knowledge management  
Education and training  
Translate research into Evidence-Based Practice

# TSNRP Funding History



## Congressional Interest Funding

Year	Total TSNRP Funding (M)	Proposals Received Annually	Proposals Funded Annually	Annual Funding Rate (%)	Cumulative Proposals Received	Cumulative Proposals Funded	Cumulative Funding Rate (%)
1992-2006 (total)	\$71.0	726	291	40			
1992-2006 (average)	\$4.7	48.4	19.4	40			

## No Funding

Year	Total TSNRP Funding (M)	Proposals Received Annually	Proposals Funded Annually	Annual Funding Rate (%)	Cumulative Proposals Received	Cumulative Proposals Funded	Cumulative Funding Rate (%)
2007*	\$0	35	0	0	761	291	38%

## DoD Budgeted Funds

Year	Total TSNRP Funding (M)	Proposals Received Annually	Proposals Funded Annually	Annual Funding Rate (%)	Cumulative Proposals Received	Cumulative Proposals Funded	Cumulative Funding Rate (%)
2008	\$6.2	24	17	71%	785	308	39%
2009	\$6.2	34	16	47%	819	324	40%
2010	\$6.0	36	18	50%	855	342	40%
2011	\$6.2	42	16	38%	897	358	40%
2012	\$6.2	26	17	65%	923	375	41%
2013	\$6.0	27	11	41%	950	386	41%
2014	\$6.0	30	14	47%	980	400	41%
2015	\$6.7	37	29	78%	1017	429	42%
2016	\$6.8	27	16	59%	1044	445	43%
2017	\$6.8	24	13	54%	1068	458	43%
2018	\$7.0	27	16	59%	1095	474	43%
2019**	\$7.0	30	15	50%	1110	490	44%
2020	\$6.0	21	12	57%	1131	502	44%
2021	\$6.0	18	15	83%	1149	517	45%
2022***	\$6.0	10	6	60%	1159	523	45%
2023	\$12.7	23	12	52%	1182	535	45%

\*Note: Some FY07 projects were funded with FY08 appropriations

\*\*Note: Some FY19 projects were funded with FY20 TSNRP funding

\*\*\*Note: FY22 funding was disrupted and does not include FY22B Call, which will be issued in FY23.

Note this excludes Mini EBP.

# Executive Director Letter



**COL Young J. Yauger**  
PhD, CRNA, FAANA, AN, USA  
TSNRP Executive Director

**One constant is our unwavering commitment to advance nursing science** to ensure better healthcare for service members and their families. TSNRP supported the Defense Health Agency's mission to promote the adoption and integration of evidence-based practices (EBP) across the Military Healthcare System (MHS) by mentoring 47 projects at military treatment facilities (MTFs) and educating nearly 1000 military nurses on EBP at more than 23 MTFs. In addition, funded research will address topics such as post-COVID-19 syndrome, vitamin k2 and readiness, effects of ketamine on synaptic density following mild TBI, increasing resiliency, virtual nursing with patients on continuous remote monitoring, pain reduction via spinal and opioid receptor heteromers, musculoskeletal training for infantry trainees, data-driven healthcare decision-making, and military nurse retention.

**As a community of military nurse scholars,** we translate science into clinical guidelines that elevate healthcare for service members and inspire nursing colleagues to pursue adoption of research findings into routine clinical care for the benefit of our patients. We launched a pilot program to extend eligibility for TSNRP funding to DoD nurses with veteran status in order to foster more research and EBP projects that support readiness and care of the warfighter. When surplus funding became available, funds were immediately directed toward high priority research and EBP awards.

**Scientific mentorship is an important benefit** the TSNRP community offers military nurses. This year we honored Dr. Laurie Migliore, Col(ret) with the TSNRP Scientific Mentor Award, recognizing her efforts to champion EBP and research across the Joint Base San Antonio clinical inquiry communities, as well as providing guidance on the future alignment of Air Force nurse scientist positions.

**To prepare the next generation of military nurse scientists,** TSNRP launched the first cohort of the Early Career Investigator Coaching program where junior nurse officers and cadets from the Army, Navy, and Air Force are mentored to advance their military careers as effective researchers. The TSNRP Fellowship program was expanded to include master's and doctoral nurses, and integrated an online Critical Thought and Leadership certificate for emerging nurse scientists to assume leadership positions in military treatment facilities, operational settings, and global disasters. In partnership with Cornell University's elearning platform and the USUHS Griffith Center for Military Medical Professionalism, nursing fellows learn advanced critical thinking, decision-making, strategic planning, and strategic change management for comprehensive patient care in the rapidly evolving combat and operational nursing environments plus earn an Executive Leadership Certificate from Cornell University.

**We expanded awareness and impact of nursing science in the U.S. and abroad** by actively briefing leaders of nonprofits, hospitals, and universities about the essential mission of TSNRP and its contributions to healthcare. From introducing TSNRP to nursing leaders at Massachusetts General Hospital, the original and largest teaching hospital of Harvard Medical School, to presenting at the LTC Juanita Warman Conference, and from briefing the U.S. Army, Navy, and Air Force Nurse Corps to educating military nursing leaders in Allied countries, TSNRP leadership continued to grow recognition and understanding of the key role military nurse scientists play in securing operational readiness.

**TSNRP will continue to educate, mentor, and elevate military nurse scientists** as they transition from academics through their military career and into retirement, growing a community of healthcare professionals skilled in EBP projects, research, and translation of key findings into relevant clinical guidance that ensures operational readiness and quality healthcare for service members and their families.

# Financial Report



## FY23 TSNRP Funded Projects

<b>FY23 TSNRP Funding</b>	<b>\$12,678,000.00</b>
<b>USU Administrative Fees</b>	<b>\$148,428.00</b>

FY22 TSNRP Operational Expenditures	
Travel for Courses	\$213,782.00
The Geneva Foundation Support Contract	\$2,540,759.25
Honoraria	\$17,667.25
Supplies & Materials	\$11,600.00
<b>Total Operational Expenditures</b>	<b>\$2,932,236.50</b>

Additional Funds	
Nutraceuticals to Enhance Cardiovascular Health and Military Readiness	\$150,000.00
Data to Support Decisions: MHS Genesis and a National Nursing Database	\$75,000.00
A Randomized Controlled Pilot Study Examining Audiovisual Stimulation to Improve Sleep, Pain, and Well-Being in Military Healthcare Providers during the COVID-19 Pandemic	\$75,000.00
Dose Response of Endotracheal Administration of Epinephrine in Porcine Model	\$75,000.00

New Awards	
Data to Support Decisions: MHS Genesis and a National Nursing Database	\$425,000.00
Health and Readiness of Women and Gender Diverse Female Service Members: A Scoping Review	\$415,000.00
An Exploratory Study of Vitamin K2 and Readiness in an Active Duty Population	\$411,687.00
The Prevalence & Culture of Horizontal Violence among Healthcare Professionals Serving at a Large Military Treatment Facility	\$312,094.00
Leveraging the Mission Wellness Mobile Application to Support Career and Family Planning in U.S. Service Members	\$573,216.00
Increasing Resiliency in Air Force Personnel: A Multi-site Study	\$415,000.00
Prevalence and Symptoms of Post-COVID-19 Syndrome in Active-Duty Military Personnel	\$474,259.00
Virtual Nursing: Care of Patients on Continuous Remote Monitoring	\$308,270.00
A Musculoskeletal Training Program for U.S. Army Infantry Initial Entry Trainees	\$30,000.00
The Effects of Ketamine Administration on Synaptic Density following Mild Traumatic Brain Injury in an Animal Model	\$30,000.00
Nurse Retention Among Army Nurse Corps Officers	\$24,760.00

Mini EBP Awards	
Pain Control During Needle-related Procedures: Implementation of Vibrating and Cold Device (Buzzy) in Pediatric Clinic	\$2,124.97
Handheld POCUS to Support Anesthesia Care in the Austere Environment	\$9,587.90
Implementation of Mobile Skill Simulation Lab to Increase Skill Retention among Primary Care Nursing Personnel	\$9,960.85
Caring for Deployed Healthcare Personnel Using a Resiliency Room to Impact Wellness	\$4,282.25
Evidence-Based Social Initiatives in a Military Community via a Pediatric Clinic	\$9,991.77

<b>Total FY23 Project Funding</b>	<b>\$3,830,233.74</b>
Remaining Balance (This amount will be issued for upcoming research awards).	\$5,915,529.76

# Research Interest Groups

“Think Tanks” for Innovation



TSNRP Research Interest Groups (RIGs) initiate research, Evidence-Based Practice, and education projects that support operational readiness in their areas of expertise. Currently the TSNRP community offers six RIGs for military nurse scientists to network and collaborate. These include: Anesthesia, Biobehavioral Care, Expeditionary Care, Health Systems/ Informatics, Military Family, Military Women’s Health.

Here is a sampling of RIG projects advanced in FY2023:



## Military Women’s Health RIG



### Leaders:

**Maj Angela K. Phillips**  
PhD, APRN, WHNP-BC, Leader

**COL Lana J. Bernat**  
DNP, CNM, CPHQ, Deputy

### Key Contributors:

**Leilani Siaki**  
PhD, ANP, FAAN, LTC(ret)

**Pedro Oblea**  
PhD, LTC(ret)

**CAPT Jennifer Buechel**  
PhD, FAAN

**Candy Wilson**  
PhD, WHNP-BC, FAAN, COL(ret)

**Dawnkimberly Hopkins**  
PhD, WHNP-BC, Lt Col(ret)

**Lori Trego**  
PhD, APN, FAAN, COL(ret)

## Women in Combat

The Military Women’s Health RIG sponsored Women in Combat, a 3-day virtual continuing education event via the AMSUS elearning platform. COL Young J. Yauger, PhD, CRNA, FAANA, AN, USA, TSNRP executive director, served as the emcee introducing keynote speakers such as COL Hope Williamson-Younce, DNP, ACNP-BC, CCNS, CEN who spoke on diversity, equity, and inclusion in the Military Healthcare System; and BG Katherine Simonson, MS, BS, RN who discussed innovation in healthcare and the importance of nursing.

**Day 1** also featured topics on gender-based stigma among U.S. military officers, and how lean mass predicts lower body power and upper body strength in U.S. Marine women.

**On Day 2** Dr. Holly Hoffmeyer, PhD, MPH, MSN, MFA, CNM, AFN-BC presented on gender-sensitive care, and CPT Celeste Chavez, MS, BS highlighted trauma informed care. Intimate partner violence and its impact on service members was addressed by MAJ Rebecca Dindinger, DNP, RNC-OB, IBCLC followed by a robust panel of experts on sexual assault, prevention, and response.

**On Day 3**, attendees enjoyed a briefing from Ms. Seileen Mullen, BA, principal deputy assistant secretary of defense for health affairs followed by presentations by Dr. Jacqueline Killian, PhD, MHR, MSN, NPdC, LYTC on alternative methods to promote health and wellness for women in and out of uniform; Dr. Kristin Popp, MS, BS on the suppression of the hypothalamic-pituitary-ovarian axis in women during Army combat training; and Dr. DawnKimberly Hopkins, PhD, WHNP-BC, Lt Col(ret), USAF on living with polycystic ovary syndrome (PCOS) in the military. Ms. Amelia Barrett, MS, ATC provided an overview of the Initiation of Marine Physiological Assessment of Combat Training (IMPACT) study.

# Research Interest Groups

“Think Tanks” for Innovation



## Expeditionary Care RIG



### Leaders:

Lt Col Tonya White  
PhD, USAF, NC, Leader

MAJ Angela Samorsorn  
PhD, AN, Deputy

### Expert Panelists:

COL Christopher Van Fosson, PhD

Col Darren Domiami, PhD

Lt Col Sarah Huffman, PhD

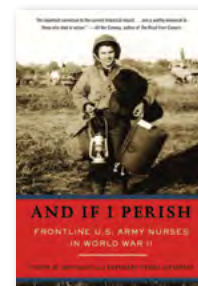
COL Young “John” Yauger, PhD

Ms. Tamara “AB” Averett-Brauer  
MN, RN, DR-III, DAF

Lt Col Theresa Bedford, PhD

## Lessons Learned from World War II Webinar

At the 2023 Research & EBP Dissemination Course, author Rosemary Neidel-Greenlee shared nursing stories from her book *And If I Perish: Frontline U.S. Army Nurses in World War II*. Inspired by Rosemary’s narrative, the EXRIG assembled military nursing experts from the Army, Navy, and Air Force to conduct a roundtable discussion via the AMSUS elearning platform on lessons learned and how to apply that wisdom for today’s operational environments.



*And If I Perish: Frontline U.S. Army Nurses in World War II*  
by Rosemary Neidel-Greenlee



## Anesthesia RIG



### Leaders:

LTC John Reed  
CRNA MBA PhD, Leader

CDR Justin Hefley  
DNP, CRNA, Deputy

### Project: An Evaluation of the Thermal Stability of Two Propofol Formulations

CDR Justin Hefley, DNP, CRNA

Dr. Sanjiv Kumar, PhD MAJ(P)

Laura E. Riddle  
DVM, MPH, DACVPM, DACLAM

MAJ Stephanie K. Parks  
DNP, CRNA

Dr. Donald J. Vallier, DNP, CRNA

LTC Michael A. Washington  
PhD, M(ASCP)

LTC John R. Reed  
PhD, MSN, MBA, CR

## An Evaluation of the Thermal Stability of Two Propofol Formulations

Military medical personnel often operate under difficult conditions in austere environments. In these situations, medical urgency coupled with equipment and supply constraints can require the use of materials that are less than ideal. It is therefore important to understand the properties of commonly utilized pharmaceutical formulations when refrigeration is unavailable and storage conditions cannot be optimized. This study aims to analyze the effects of freeze-thaw (FT) cycles on propofol, a frequently used anesthetic, to simulate the austere environments where conventional medication storage conditions are unavailable.



# Publications



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