



TriService Nursing Research Program

Fostering Excellence in Military Nursing Science

TSNRP Mission

Facilitate nursing research to optimize the health of military members and their beneficiaries.

Origin & Legacy

- In 1996 Congress fully authorized TSNRP in Public Law 104-106, Sec. 741 to establish a program of military nursing research at the Uniformed Services University.
- Through July 2024, TSNRP received 1182 proposals and awarded 535 grants totaling \$114.6 million that saves lives at home and on the front lines.
- TSNRP continues to enable the operational readiness, health, and care of warfighters and their families by advancing military nurse scholars, nursing research, and evidence-based practice across the Military Healthcare System.

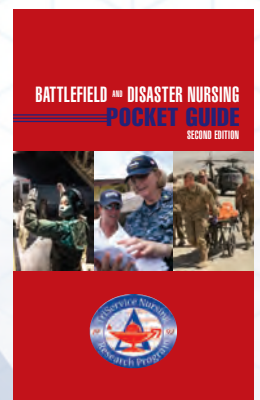
Congress established the TSNRP as the country's first and only Department of Defense program that supports and allows armed forces nurses to conduct military nursing research.

Military Readiness & Care of Warfighters

Advancing Tactical Combat Care in Operational/Austere Environments



- **Battlefield and Disaster Nursing Pocket Guide, 2nd Ed.:** This essential guide, written by military nurses, contains critical assessment and treatment information for nurses and medics to provide evidence-based care in operational environments. This pocket guide was downloaded 1.25 million times (and counting), and distributed in print to nearly 10,000 military nurses and civilian disaster response teams. In 2024, the pocket guide was translated into Ukrainian.



- **Expeditionary Care:** Spanning 34 years, this program of research examined injured combat casualties in the field and en route care conditions to translate findings into operational military nursing practices for en route care and military nursing competencies.
- **Resuscitative Nursing:** For more than 3 decades, this program of research examines the effectiveness and optimal administration route of life saving medications: epinephrine, amiodarone, vasopressin especially in austere environments. Results of these studies contribute to national resuscitative guidelines that reflect the best evidence; for example, healthcare personnel widely using intraosseous devices to administer medications in trauma resuscitation care, and battlefield care.

- **Trauma Care:** Both traumatic brain injury (TBI) and post-trauma stress disorder (PTSD) are referred to as the signature injuries of war. On the leading edge of science, this research program examines training and simulation methods to improve teamwork in trauma management in forward deployed staff, plus innovations to improve medical outcomes and readiness including nutritional and non-pharmacologic interventions, among others. This research also ensures military healthcare personnel receive the most effective trauma education to care for the nation's warfighters.
- **Anesthesia Nursing:** This research examines the effects of temperature extremes on medications in austere environments; effects of epinephrine sequestration on the return of spontaneous circulation; strategies to prevent postoperative nausea and vomiting; hemodilution techniques to estimate blood volume; and education/training to deal with difficult airways, among other challenges.
- **Combat Injuries/Pain Management:** This research program investigates a range of interventions to protect lives such as severe burn nursing care; radiation burn training, spinal opioid receptors to treat pain; audio visual stimulation to improve sleep/pain; optimizing pharmacologic and non-pharmacologic treatments; and competencies for palliative and end-of-life care.
- **Health & Fitness Readiness:** For more than 2 decades, this research examines health promotion programs, dietary intake of nutrients (vitamin D, calcium, folate), herbal supplements, and gene expression to optimize human performance and readiness of service members. Plus musculoskeletal training to prevent extremity injuries. This research addresses critical gaps in our understanding of links between key dietary nutrients, disease risk, optimal weight, and fitness performance. This body of evidence informs the support and selection of health promotion programs within the Armed Services.
- **Family Readiness & Care:** For 15+ years, military nurse scientists examined the experience and effect of military separations and deployments on children; parental perceptions of deployed experiences; and strategies parents employ to manage military separation/deployment for their families. These studies inform military leaders and decision makers on how to ensure readiness of our nation's service members and families.
- **Promoting Evidence-Based Practice (EBP):** TSNRP provides 6 EBP experts to educate and support nursing leaders and teams in implementing EBP projects to solve problems, improve outcomes, reduce errors, lower costs, shorten hospitalizations, and increase patient satisfaction.



TSNRP Research Interest Groups

Think tanks of innovation, TSNRP Research Interest Groups initiate research, evidence-based practice projects, plus education and publishing projects that support operational readiness in their areas of expertise:

- Anesthesia
- Biobehavioral Care
- Expeditionary Care
- Health Systems/Informatics
- Military Family
- Military Women's Health

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DoD Partners
Civilian Universities
Nonprofits

View the map of research partners:
triservicenurse.org/funding-research-awards#partner-map

Learn More About TSNRP

- Film Short "*Origin & Legacy of Military Nurse Scientists*": triservicenurse.org/#military-nurse-scientist
- Resources for Military Nurses: triservicenurse.org/resourcecenter
- Research Awards: triservicenurse.org/funding-research-awards#detail
- 2023 Annual Report: triservicenurse.org/annualreport
- TSNRP History: triservicenurse.org/history