



DEPARTMENT OF THE NAVY
BUREAU OF MEDICINE AND SURGERY
2300 E STREET NW
WASHINGTON DC 20372-5300

IN REPLY REFER TO
BUMEDINST 5450.167A
BUMED-M12
24 Oct 2011

BUMED INSTRUCTION 5450.167A

Subj: MISSION, FUNCTIONS, AND TASKS OF THE NAVAL MEDICAL RESEARCH UNIT SAN ANTONIO, FORT SAM HOUTON, TX

Ref: (a) OPNAVNOTE 5400, Ser DNS-33/11U228503 of 17 May 2011
(b) BUMEDINST 5450.165B
(c) SECNAV M-5210.1 of November 2007

Encl: (1) Mission, Functions, and Tasks of the Naval Medical Research Unit San Antonio, Fort Sam Houston, TX

1. Purpose. To publish mission, functions, and tasks of the Naval Medical Research Unit San Antonio, Fort Sam Houston, TX (NAMRU-SA) as directed by references (a) and (b). This is a complete revision and must be read in its entirety.
2. Cancellation. BUMEDINST 5450.167.
3. Scope. Applies to all military, civilians, and contract support staff assigned to the Naval Medical Research Unit San Antonio, Fort Sam Houston, Texas. The mission is to conduct medical, dental, and directed energy biomedical research, which focuses on ways to enhance the health, safety, performance, and operational readiness of Navy and Marine Corps personnel and addresses their emergent medical and dental problems in routine and combat operations.
4. Background. In accordance with reference (a), this action integrates the processes and resources of Bureau of Medicine and Surgery (BUMED) commands in the research, logistics, and information technology areas to reduce redundancies and costs, optimizing the use of limited resources to provide maximum capability to support the operating forces. There are no changes to current manpower or location involved with this realignment, and all subordinate commands assigned as subordinates of the three realigning commands will remain under them through the realignment.
5. Status and Command Relationships. NAMRU-SA is a shore activity in an active status under a commanding officer and under the command and support of Naval Medical Research Center, Silver Spring, MD. NAMRU-SA is under the area coordination of Commander, Navy Region Southeast.

a. Command:

Commanding Officer
Naval Medical Research Unit San Antonio
3650 Chambers Pass
Building 3610
Fort Sam Houston, TX 78234-6315

(SNDL: FH8) (UIC: 39467)
(PLA: NAVMEDRSCHU SAN ANTONIO TX)
(Activity Code: 4188-900)

b. Echelon of Command:

- 1 - Chief of Naval Operations
- 2 - Chief, Bureau of Medicine and Surgery
- 3 - Commanding Officer, Naval Medical Research Center
- 4 - Commanding Officer, Naval Medical Research Unit San Antonio

6. Supporting Activities: NAMRU-SA receives support from:

- a. U.S. Army Institute of Surgical Research, Fort Sam Houston, TX.
- b. 502nd Mission Support Group, Fort Sam Houston, TX.
- c. Joint Base San Antonio, 502d Air Base Wing, Fort Sam Houston, TX.
- d. San Antonio Military Medical Center, Fort Sam Houston, TX.
- e. Air Force Research Laboratory, 711th Human Performance Wing/Directed Energy Bioeffects Division, Fort Sam Houston, TX.
- f. Personnel Support Detachment, Corpus Christi, TX.
- g. Human Resources Office, Corpus Christi, TX.

7. Action. Addressee must:

- a. Ensure performance of the specific mission, functions, and tasks assigned in enclosure (1).
- b. Advise the Chief, BUMED of any recommended modifications to enclosure (1), in accordance with reference (b).

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8. Records Management. Records created as a result of this instruction, regardless of format and media, shall be managed in accordance with reference (c).



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**MISSION, FUNCTIONS, AND TASKS OF THE
NAVAL MEDICAL RESEARCH UNIT SAN ANTONIO
FORT SAM HOUSTON, TX**

1. Purpose. To update the mission, functions, and tasks of the Naval Medical Research Unit San Antonio, Fort Sam Houston, TX (NAMRU-SA) in support of the mission issued by OPNAVNOTE 5400 Ser DNS-33/11U228503 of 17 May 2011.
2. Mission. To conduct medical, dental, and directed energy biomedical research, which focuses on ways to enhance the health, safety, performance, and operational readiness of Navy and Marine Corps personnel and addresses their emergent medical and dental problems in routine and combat operations.
3. Functions and Tasks. In accomplishing the assigned mission, the Commanding Officer, NAMRU-SA must ensure performance of the functions and tasks listed below:
 - a. Provide professional medical, dental, and biomedical technical guidance in the planning of Navy and Marine Corps Research, Development, Test, and Evaluation (RDT&E) on weapons systems, life support systems, and personnel protection.
 - b. Develop novel strategies to control hemostasis (stopping the bleeding) and reduce life-threatening hemorrhage.
 - c. Perform research in battlefield hemostasis and clotting agents.
 - d. Test and evaluate newly developed hemostatic agents for extremity hemorrhage and evaluate systemically applied or targeted therapies for internal hemorrhage.
 - e. Develop the next generation of resuscitative fluids and blood substitutes for battlefield use.
 - f. Perform resuscitation fluid experimental studies including the development, testing, and evaluation of blood components either alone or in combination to improve battlefield survival.
 - g. Investigate rapid non-invasive testing technologies for disease detection, blood typing, and antibody level determination.
 - h. Develop maxillofacial reconstruction materials and technologies to facilitate healing, reduce the incidence of post-operative infection, and aid in complex treatment planning of traumatic craniofacial injuries.
 - i. Conduct laboratory and clinical-user testing of dental field equipment.
 - j. Develop products for battlefield use to treat dental emergencies such as fractured teeth and lost restorations.

- k. Develop evidence-based assessment tools to help identify individuals at high risk of experiencing acute dental problems.
- l. Lead agent for the Navy's Dental Mercury Abatement Program.
- m. Evaluate directed-energy non-lethal weapon bioeffects and effectiveness.
- n. Establish safety standards for training and combat forces in directed-energy operating environments.
- o. Develop battlefield directed-energy threat countermeasures.
- p. Determine etiology and treatment of directed-energy casualties.
- q. Develop directed-energy diagnostic technology.