



# NAVY MEDICINE *FAST FACTS*

December 2022

## MISSION

Navy Medicine provides well-trained **PEOPLE**, working as expeditionary medical experts on optimized **PLATFORMS** operating as cohesive teams demonstrating high reliability **PERFORMANCE** to project medical **POWER** in support of Naval Superiority.

## ONE NAVY MEDICINE

ACTIVE DUTY + RESERVE

+ SUPPORTING 2 SERVICES +

### UNITED STATES NAVY

Hospital Corpsmen:	19,160 AC / 2,300 RC
Medical Corps Officers:	3,150 AC / 310 RC
Nurse Corps Officers:	2,540 AC / 955 RC
Dental Corps Officers:	880 AC / 130 RC
Medical Service Corps Officers:	2,400 AC / 180 RC

### UNITED STATES MARINE CORPS

Hospital Corpsmen:	5,330 AC / 840 RC
Medical Corps Officers:	420 AC / 120 RC
Nurse Corps Officers:	160 AC / 40 RC
Dental Corps Officers:	240 AC / 60 RC
Medical Service Corps Officers:	340 AC / 60 RC

\* Total Force Estimates

+ OPERATING ABOVE, ON, AND BELOW THE SURFACE +

## ARMED SERVICES BLOOD PROGRAM (ASBP)

*Established 1952 -- Providing Lifesaving Support for Warfighters*



- ASBP is joint operation that collects, tests, stores, transports and distributes blood products to U.S. military locations around the world, wherever and whenever it's needed most.
- The Navy is a key member of ASBP, and together with the Army and Air Force provides blood and blood products to our Sailors, Soldiers, Airmen, Marines, retirees, and their families worldwide.
- Navy blood donor centers collect and ship nearly **18,000** blood products annually in direct support of our deployed warfighters.

**20 Blood Donor Centers Worldwide -- 8 Navy Blood Donor Centers**

Since the ASBP's inception over 70 years, more than 1.5 million units of blood have been provided to treat battlefield illnesses and injuries. While ASBP blood recipients are most often thought of as deployed service members injured in the line of duty, the ASBP also supports the peacetime needs of military personnel and their families. Blood must be available to military hospitals for scheduled and emergency procedures.

Additionally, the ASBP's recipient base extends beyond the military community. When natural disasters or other catastrophes strike, the ASBP serves civilians in need, not only at home, but globally during humanitarian missions. Anyone receiving blood products in a combat area will receive blood through the ASBP.

- **40 or more units of blood may be needed for a single trauma victim.**
- **8 units of platelets may be required daily by leukemia patients undergoing treatment.**
- **1 pint of blood can sustain a premature infant's life for two weeks.**



Collect



Test



Transport



Transfuse



# NAVY MEDICINE FAST FACTS

## NAVAL DOSIMETRY CENTER (NDC)

*Premier Dosimetry Center for Navy's Nuclear Powered Fleet and Commands Worldwide*

*"Dosimetry" is the science by which radiation dose is determined by measurement and calculation. NDC is the largest dosimetry processing center in the Department of Defense. It serves as the dosimetry processing center for 40,000+ Sailors, Marines, and Civilians annually.*



- Provide the highest quality centralized processing and consultation for dosimetry for the US Navy's nuclear-powered fleet and naval commands worldwide.
- NDC maintains a repository of radiation exposure history for all personnel monitored in the Navy since 1947. This information is used to ensure accuracy in lifetime exposure.
- NDC operates a whole body counting facility to determine internal radioactivity.
- NDC conducts technical research in dosimetry, supports radio-epidemiology studies, and provides worldwide support for radiological emergency response.
- NDC is one of only a handful of facilities in the world capable of performing electron paramagnetic resonance (EPR) dosimetry -- a physical method for the assessment of absorbed dose from ionizing radiation.

### RECENT ACCOMPLISHMENTS (2020 - Present):

- NDC is currently in the process of implementing an \$80 million Naval Occupational Dosimetry System to ensure the best next generation dosimetry system for our warfighters and continuously seeks to improve upon an outstanding legacy of radiation safety.
- NDC's Radiation Registry Department completed dose validations for 2,000+ submarine veterans for the National Council on Radiation Protection and Measurements and the Naval Nuclear Propulsion Program's joint venture -- this is the largest and most expansive epidemiological study on the effects of low dose radiation in history.



Whole Body Counter



Navy Thermoluminescent dosimeters (TLDs) and TLD Readers

## RADIATION HEALTH OFFICERS



- During the Atomic Age, the Navy recognized that a new type of specialist was needed to understand the effects of radiation and ensure personnel were protected from its uses.
- Among the first individuals to represent the Medical Service Corps in 1947 were pioneering Radiation Health Specialists, LCDR Horace Chester, LCDR Francis William Chambers, LT Thomas Shea, Jr., LT Royce Skow, and LT Robert Louis Gade.
- **88** Radiation Health Officers on Active Duty.

### Locations Radiation Health Officers serve:

- MTF (CONUS and OCONUS), Defense Health Agency, BUMED, Shipyards
- Aircraft Carriers (CVN), Submarine Tenders (AS), and Type Commands
- Navy Environmental & Preventative Medicine Units (NEPMUs)
- Radiological Affairs Support Office
- National Center for Medical Intelligence (NCMI)
- Defense Threat Reduction Agency (DTRA)



### RECENT ACCOMPLISHMENTS (2020 - Present):

- Major contributions and command leadership through the fleet and Navy Medicine for COVID-19 pandemic response.
- Supported the first joint Naval Reactors/Strategic Weapons emergency response drill.
- Monitored 61,000+ personnel who were occupationally exposed to ionizing radiation.
- Transitioned nine medical radioactive materials permits to Defense Health Agency control with no disruption to operations or patient care.

