



DEPARTMENT OF THE NAVY  
BUREAU OF MEDICINE AND SURGERY  
7700 ARLINGTON BOULEVARD  
FALLS CHURCH, VA 22042

IN REPLY REFER TO  
BUMEDINST 6470.25A  
BUMED-M9  
10 May 2017

BUMED INSTRUCTION 6470.25A

From: Chief, Bureau of Medicine and Surgery

Subj: NAVY MEDICAL PHYSICS ADVISORY BOARD

Ref: (a) BUMEDINST 5420.12E  
(b) BUMEDINST 5420.19A  
(c) 42 U.S.C. §263b  
(d) Joint Commission on Accreditation of Healthcare Organizations  
(e) 21 CFR Parts 900 and 1020, Chapter 1, Subchapters i-j

1. Purpose. Reference (a) establishes the roles and responsibilities of specialty leaders appointed by the Chief, Bureau of Medicine and Surgery (BUMED). Medical physics is a subspecialty within radiation health and the specialty leader may or may not be a qualified medical physicist. This instruction establishes the Navy Medical Physics Advisory Board (NMPAB) to ensure a panel of subject matter experts evaluate issues related to safe and optimum utilization of ionizing and non-ionizing, radiofrequency, and ultrasonic radiation for diagnostic and therapeutic medical and dental uses.

2. Cancellation. BUMEDINST 6470.25.

3. Scope. Reference (b) establishes the Naval Diagnostic Imaging and Radiotherapy Board (NAVDIRB) to evaluate and assess technology, coordinate policy development, and implement new technologies. The establishment of the NMPAB provides Navy Medicine with a technically and clinically educated board composed of Navy radiation health officers and radiation specialists. The board will enhance the growth and readiness of the radiation health community by evaluating emerging technology, developing training curricula, revising directives, and standardizing the practice of medical physics in the Navy. This instruction is applicable to all ships and stations having medical department personnel.

4. Background. A focused approach is needed to determine personnel qualifications, training requirements and standardized procedures, forms and test equipment necessary to perform diagnostic imaging and therapeutic radiological system performance evaluations and safety. References (c) through (e) require the implementation of specific medical physics practices. Reference (c) implements the Mammography Quality Standards Act, which establishes standards for accreditation for facilities to perform screening or diagnostic mammography services. Reference (e) part 900 provides mammography standards at: <https://www.fda.gov/radiation-emittingproducts/mammographyqualitystandardsactandprogram/>. Reference (e) part 1020 provides performance standards for ionizing radiation emitting products. The NMPAB's

recommendations will facilitate implementation of the best clinical and business practices necessary to meet these requirements. Reference (d) provides Joint Commission accreditation standards at: <https://www.jointcommission.org>.

5. Policy. The NMPAB will advise the Chairman, NAVDIRB on such subjects as diagnostic x-ray, simple and advanced fluoroscopy, cross sectional imaging (including computed tomography, magnetic resonance imaging, ultrasonic and digital tomosynthesis), teleradiology, nuclear medicine (including single photon emission computed tomography and positron emission tomography), radiation therapy equipment safety and evaluation, radiation testing equipment, training needs and sources, imaging modality accreditation, software recommendations, personnel qualifications, and compliance with and revision of directives as needed. The NMPAB will provide input and technical expertise to NAVDIRB when requested.

6. Mission and Functions. The NMPAB will be responsible for providing technical and medical physics support to the Chairman, NAVDIRB. The NMPAB will:

a. Issue, through the Navy and Marine Corps Public Health Center (NMCPHC), the Navy Diagnostic Imaging Equipment Performance Survey Technical Manual TM-6470.1 and maintain the manual, issuing revisions as necessary. NMCPHC TM-6470.1 is available at:

<http://www.med.navy.mil/sites/nmcphc/occupational-and-environmental-medicine/rhd/pages/rsoep.aspx>.

b. Oversee the development and distribution of software for the recording and reporting of radiological systems performance evaluations.

c. Monitor acceptance testing and quality assurance procedures performed for Navy Medicine oversight diagnostic imaging systems, including teleradiology systems and Digital Imaging Network-Picture Archiving and Communications Systems. Monitor therapeutic treatment systems when necessary.

d. Oversee the development, distribution, and use of patient radiation dose calculation and tracking programs.

e. Monitor Navy compliance with the Mammography Quality Standards Act, reference (e) part 900.

f. Establish training and experience criteria for physicists to achieve and maintain qualified surveyor status.

g. Ensure qualified physicists conduct diagnostic imaging system performance evaluations.

h. Track necessary data from radiological systems performance evaluations. This data may include, but is not limited to, key component testing results, necessary corrective actions, and dates of testing.

7. Membership

a. Voting Members

(1) Chairman (Chief, BUMED specialty leader for radiation health/radiation specialist community or a senior radiation health specialist appointed by the specialty leader).

(2) Chief, BUMED specialty leader for radiation health/radiation specialist community (if not the Chairman).

(3) Chief, BUMED assistant specialty leader for medical physics.

(4) Regional Medical Physicist, Navy Medicine East.

(5) Regional Medical Physicist, Navy Medicine West.

(6) Radiation specialist from each naval medical center.

(7) Radiation specialist from the Uniformed Services University of the Health Sciences.

(8) The senior radiation specialist from NMCPHC.

b. Non-voting Members. These may include, but are not limited to, radiation health officers, radiation specialists, recorder or administrative coordinator (as appointed by Chairman, NMPAB).

8. Action

a. Chairman, NMPAB. Convene the NMPAB quarterly or as necessary, to review community needs regarding technological innovations and policy development. The primary meeting will be held in conjunction with the Second Quarter Navy Diagnostic Imaging and Radiotherapy Board held annually at Navy Medicine Logistics Command, Ft. Detrick, MD. Submit meeting minutes to Chairman, NAVDIRB for comment, and distribute to radiation health community. Represent the NMPAB at NAVDIRB meetings.

b. Chairman, NAVDIRB. Review and, as applicable, provide comment on NMPAB minutes.

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9. Review and Effective Date. Per OPNAVINST 5215.17A, review this instruction annually on the anniversary of its effective date to ensure applicability, currency, and consistency with Federal, Department of Defense, Secretary of the Navy, and Navy policy and statutory authority using OPNAV 5215/40 Review of Instruction. This instruction will automatically expire 5 years after the effective date unless reissued or canceled prior to the 5-year anniversary date, or an extension has been granted.

10. Records. Records created as a result of this instruction, regardless of media and format, must be managed per SECNAV M-5210.1 of January 2012.



C. FORREST FAISON III

Releasability and distribution:

This instruction is cleared for public release and is available electronically only via the Navy Medicine Web site at: <http://www.med.navy.mil/directives/Pages/BUMEDInstructions.aspx>.