



DEPARTMENT OF THE NAVY
NAVAL DENTAL CENTER
2310 CRAVEN ST.
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SAN DIEGO, CALIFORNIA 92136-5596

NAVDENCENSIEGOINST 6150.1B

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27 FEB 1995

NAVDENCEN SAN DIEGO INSTRUCTION 6150.1B

Subj: RADIATION QUALITY ASSURANCE PROGRAM

Ref: (a) NAVMED P-5055 Radiation Health Protection Manual

Encl: (1) X-ray Technician Personal Qualification Standards

1. Purpose. To establish a Command Radiation Quality Assurance Program. This program will coordinate aspects of patient protection, monitoring of radiation exposure, operator qualifications and training, and the proper maintenance of equipment within Naval Dental Center following reference (a).

2. Cancellation. NAVDENCENSIEGOINST 6150.1A.

3. Background. Any facility utilizing diagnostic radiation should have a Quality Assurance Program designed to produce radiographs that satisfy diagnostic requirements with minimal exposure to patients and staff. This instruction will apply to all branch clinics of Naval Dental Center, San Diego, California.

4. Consultant for Dental Radiology. The Radiation Quality Assurance Program will be monitored by the Command Consultant for Dental Radiology who will be assigned by the Commanding Officer.

5. Policy

a. Only persons permanently assigned to X-ray and who are expected to receive greater than .5 REMS a year will be entered in a photodosimetry program.

b. Personnel are not required to wear dosimetric device. Ensure that only persons permanently assigned to work with ionizing radiation and who are expected to receive greater than 0.5 rem a year are entered into the photodosimetry program. Reference (a) excludes dentists and dental technicians from the program. However, any individual working in a space where the environmental dosimetry monitor exceeds the radiation protection standards for occupational exposure, as stated in Chapter 4 of reference (a), shall receive a Preplacement or a Situational Medical Examination as necessary.



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c. The dosimetric devices shall be collected at six week intervals and transferred to the appropriate medical facility for processing.

6. Action

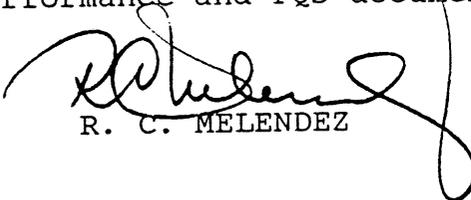
a. All Clinic Directors are responsible for implementation and oversight in the respective clinic. They shall designate an individual (petty officer or above) as Radiation Health Officer (RAO) to monitor all aspects of that branch's Radiation Quality Assurance program.

(1) Monitor the exposure of ionizing radiation. Personnel are not required to wear a dosimetric device. Environmental monitors are placed by the Medical Radiation Health Program Coordinator.

(2) Conduct necessary training

(a) All personnel involved in radiology services are required to complete the X-ray Technician Personal Qualification Standards (PQS) as per enclosure (1), and have each requirement initialed by the Radiation Quality Assurance Officer or direct officer supervisor. The completed PQS form should be maintained in the division officer file.

(b) In-service training will be conducted at all branch dental clinics utilizing enclosure (1) as a guide. Training should include: Protection, proper radiographic technique, proper infection control, and proper film processing and darkroom. Enclosure (1) may be used as a training guide. The objective of training is to give the technician an appreciation of the importance of radiation protection, support advancement examination performance and PQS documentation.


R. C. MELENDEZ

Dist:
List 1, Case 1, 3

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X-RAY TECHNICIAN PERSONAL QUALIFICATION STANDARDS

NAME: _____

DATE: _____

PERFORMANCE CRITERIA:

1. The technician conducts an adequate review of the health questionnaire prior to taking x-rays. _____

2. The technician follows proper radiation protection procedures. _____

a. Selects the proper apron.

b. Properly places x-ray apron on the patient.

c. Remains shielded while exposing x-rays.

3. The technician follows proper infection control procedures. _____

a. Technician is gloved.

b. X-ray films are handled properly to prevent cross contamination.

c. X-ray tube and exposure switch are handled in an aseptic manner.

d. Film placement devices are properly disinfected after use.

e. Disinfectant solutions are labeled and expiration dates listed.

Enclosure (1)

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4. The technician demonstrates the ability to take clinically acceptable film. _____

- a. Properly positions patient.
- b. Properly aligns the x-ray film.
- c. Properly aligns the tube head.
- d. Properly adjusts exposure settings on the control unit.
- e. Properly exposes the film with the correct structures displayed on the film.

5. The technician performs necessary administrative functions. _____

- a. Maintains the x-ray log.
- b. Compiles and submits DIRS data.

6. The technician demonstrates the ability to properly maintain the darkroom and processing equipment. _____

- a. Keeps the darkroom clean.
- b. Demonstrates the ability to clean and reassemble the film processor.
- c. Demonstrates the ability to maintain the replenisher system.
- d. Properly stores film and supplies.

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7. The technician handles darkroom chemicals in _____
a safe and proper manner.

a. Has reviewed applicable Material Safety Data Sheets
(MSDS).

b. Wears protective equipment when mixing
pouring and spraying chemicals.

c. Demonstrates knowledge of the nearest
eyewash station and how to use it.

COMMENTS:

EVALUATOR: _____