

UNIVERSITY OF PUERTO RICO, MEDICAL
SCIENCES CAMPUS, SCHOOL OF HEALTH
PROFESSIONS, RADIOLOGIC TECHNOLOGY
PROGRAM

RADIATION SAFETY PROTECTION POLICY



Introduction:

The first fatality from a radiation exposure was Clarence Dally, Thomas Edison's assistant. As a result of this event, many equipment, procedures and techniques were developed to control radiation levels and reduced the overexposure of the personnel, patients and general public.

The use of radiologic equipment for medical diagnostics put the patients, personnel, and public at risk. The purpose of the security measures against the radiation is to keep the normal levels. The security measure against radiation is designated to reduce the exposure levels during the operation and handling of radiological equipment in radiological procedures.

To reduce the radiologic exposure we must follow the three cardinal's fundamental principles of radiologic protection that are: Time, Distance and Shield. For that reason, we practice a basic radiation protection concept known as ALARA (acronym for "As Low As Reasonably Achievable").

Nowadays, the National Council on Radiation Protection (NCRP), frequently reviews the recommended doses. The dose limits that are recommended for the personnel that works with radiologic equipment are 50mSv/year (5,000mrem/year). The whole body dose limit (DL) is 10mSv (1,000rem) yearly. During pregnancy, it is 5mSv (500rem), but should not exceed 0.5mSv (50mrem).

Guidelines:

1. The student should follow the ALARA concept properly, every time to prevent unnecessary repetitions.

2. The student must ask about the possibility of Pregnancy to all patient of reproduction age.
3. During the radiologic procedure the student should secure all the access doors of the x rays units.
4. If necessary the presence of a companion of the patient during the course of a procedure will require that protection is placed.
5. The student should use all the security equipment (lead gloves, aprons, and thyroids shields) to prevent unnecessary radiologic exposure.
6. Should use collimators, diaphragms and cones to restrict the X ray beam just to the main area.
7. The student should protect himself from the radiation exposure in the control room, observing the patient through the lead glass.
8. The student is not allowed to hold or grab the image receptor or the patient during the radiation exposure and will use the immobilization equipment properly.
9. The student will use a dosimeter to indicate and evaluate the radiologic exposure dose levels during the radiologic studies performed.
10. The student is not allowed to surpass the occupational radiation exposure dose limits.
11. In the student suspected pregnancy, should notify to the Clinical Coordinator/Program Director, to follow the Pregnancy Policies.

Second year
(Cohort 2015-2017)

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RADIOLOGIC TECHNOLOGY PROGRAM

I CERTIFIED THAT I RECEIVED THE **RADIATION SAFETY PROTECTION POLICY**
AND THAT THIS POLICY WAS EXPLAINED AND DISCUSSED

STUDENT'S NAME	SIGNATURE
1. Albino León, Ashley	Ashley Albino León
2. Bacó Kercado, Miguel	Miguel Bacó Kercado
3. Cabrera Pérez, Hillary	Hillary Cabrera Pérez
4. Crespo Alvarez, Johaniyrs	Johaniyrs Crespo Alg
5. Espinal Beato, Carolina	Carolina Espinal Beato
6. Espinal Beato, Dilene	Dilene Espinal Beato
7. Fálcon Rivera, Frankie	
8. Figueroa Ortiz, Juan G.	Juan G. Figueroa
9. Flores Galarza, Gabriel J.	Gabriel J. Flores
10. Gonzalez Ramos, José R.	José R. Gonzalez
11. Gorritz Figueroa, Desireé	Desireé Gorritz Figueroa
12. Leduc Rodríguez, Fernando	Fernando Leduc Rodríguez
13. López Santiago, Michelle	Michelle López Santiago
14. Marrero Carrión, Ashley A.	Ashley A. Marrero Carrión
15. Ortega Rodriguez, Natalie	Natalie Ortega
16. Ortiz Sánchez, Guimara	Guimara Ortiz Sánchez
17. Rivera Ortiz, Verónica	Verónica Rivera Ortiz
18. Rosa Rodríguez, Betsaida	Betsaida Rosa
19. Salvá Soto, Karla Y.	Karla Y. Salvá Soto
20. Santos León, Cayrangeli	Cayrangeli Santos León
21. Soto López, Carolyn	Carolyn Soto López
22. Torres Rivera, Keyra L.	Keyra L. Torres Rivera

23. Giovanna Marchess Pagan
Date: Agust 10th. 2015.

Third years
(cohort - 2013-2015)

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STUDENT'S NAME	SIGNATURE
1. Alicea Jonathan	
2. Baerga Rivera Jesús	
3. Cruz De León Damiliannette	
4. Cruz Rodriguez Irvin	
5. Eliza Alvarez Daisy	
6. Gonzalez Fontanez Astrid	
7. Hernandez Hernandez Kevin	
8. Marrero Gonzalez Imalay	
9. Noel Orria Yelitza	
10. Noriega Ortiz Edwardo	
11. Oyola Ayala Jesús	
12. Perez Proenza Pedro	
13. Quiñones Rivera Angelica	
14. Rodriguez Rivera Coraima	
15. Serrano Andrades Katherine	
16. Soli Ortiz Shelmarie	
17. Villeta Astacio Gabriela	
18. Maldonado Morales Arnelis	

Date: Agust 10th. 2015.