Radiation Safety: Occupational Exposure

The Radiologic Technology Program and the Clinical Affiliate endorses the ALARA (As Low AS is Reasonably Achievable) philosophy. The intent of the program is to keep radiation dose to the patients, students, and radiographers as low as reasonably possible.

All students are required to wear personnel radiation monitors at collar level-outside of the lead aprons at all times when at the clinical site. Each student must observe the guidelines given for radiation protection (TIME, DISTANCE, and SHIELDING) when working around radiation.

Each month the clinical instructor will report your monthly radiation exposure on the radiation exposure record and at the end of the semester will send the report to the Program Director.

In the event that a dosimeter reading exceeds the recommended level, the procedures will be followed:

1. An investigation of radiation exposure form is forwarded to the student by the clinical site and upon completion is discussed with the Radiation Safety Office at the student’s assigned clinical site. This investigation is to be completed within thirty (30) days. The program director and clinical instructor will be given a summary report.
2. The student will meet with the program director and clinical instructor to discuss the summary report.
3. A written plan to reduce exposure will be made and copies will be forwarded to the student, clinical instructor, program director and the clinical site’s radiation safety committee.
4. Student will receive additional instruction on radiation safety and protection.

Policy Number - 1.20
page 1 of 3

reviewed summer 2015
### Student Radiation Exposure Report

**Student’s Name:** ________________________________  **Semester:** ______  **Year:** _____

<table>
<thead>
<tr>
<th>DATE:</th>
<th>Whole Body Current Period</th>
<th>Whole Body Quarter</th>
<th>Whole Body Year to Date</th>
<th>Whole Body Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Student’s Signature**  
**Date**

---

Policy Number – 1.20  
Page 2 of 3  
reviewed summer 2015
Xavier University  
Radiologic Technology Program  

Investigation of Radiation Exposure

The objective of personnel radiation monitoring is to measure occupational radiation exposures and to aid in the detection of unnecessary radiation dosages. The prompt investigation of any above average exposure will be useful in determining methods of preventing unnecessary radiation exposures from re-occurring.

During the period ______________________, your personnel radiation monitoring device indicated an exposure of:

<table>
<thead>
<tr>
<th>Collar</th>
<th>Chest</th>
<th>ALARA II Limits</th>
<th>ODH Annual Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>_______ mrem</td>
<td>Deep _______</td>
<td>375 mrem/quarter</td>
<td>5,000 mrem</td>
</tr>
<tr>
<td>_______ mrem</td>
<td>Shallow _______</td>
<td>1,125 mrem/quarter</td>
<td>15,000 mrem</td>
</tr>
<tr>
<td>_______ mrem</td>
<td>Lens of eye _______</td>
<td>3,750 mrem/quarter</td>
<td>50,000 mrem</td>
</tr>
</tbody>
</table>

Please answer the following questions and return this statement as quickly as possible so that our records may be properly evaluated. (Use back of this sheet for additional space if needed.)

1. How did the exposure occur?

2. Why did the exposure occur?

3. What has been done to prevent re-occurrence of such an exposure?

4. Remarks:

Signed: ________________________________ Date: ______________________

Clinical Instructor: ________________________________ Date: ______________________

Program Director: ________________________________ Date: ______________________

Policy Number – 1.20
reviewed summer 2015