Environmental Health and Safety Office

X-ray Equipment

All X-ray Equipment should be marked with this X-ray warning symbol.

The University of Manitoba has the duty to inform anyone that may be exposed to ionizing radiation from X-ray devices of the potential hazards (MB 217/2006 Workplace Safety and Health Regulation Section 18.4). Additionally the use of X-ray equipment is governed by the MB 341/88 R X-ray Safety Regulation under the Public Health Act.

Low level ionizing radiation affects may include pre-mature aging and cancer. Based on past and current exposure reports, the exposure from X-ray equipment used in areas controlled by the University of Manitoba is so small that the increased risk is insignificant.

Do I need X-ray Safety training beyond reading this pamphlet? The students and staff of the Faculty of Dentistry have their own requirements for additional radiation safety training as provided within the Faculty.

If you operate X-ray equipment other than as a part of the Faculty of Dentistry programs, you need more information/training than what is in this pamphlet. Talk to your supervisor and contact Radiation Safety at 789-3613 or 789-3359.

Where may X-ray Equipment be Used? Every entrance to a room where X-ray equipment is used should have the following sign posted:

CAUTION: X-ray equipment may be in use

The signs include Emergency Contact information including EHSO and Security Services (24 hour).

**OPEN BEAM** X-ray equipment releases radiation that may reach the eye or skin.

When **OPEN BEAM** X-ray equipment is in use and the operator needs to control access to the room, the entrance shall be posted:

**DANGER - DO NOT ENTER**

Special procedures required. Do not enter unescorted except for Life Safety or Building Safety reasons.

How is X-ray equipment controlled at the University?

All X-ray equipment (other than electron microscopes) must be registered with Radiation Protection, Cancer Care Manitoba.

The University of Manitoba has a Radiation Protection Committee to oversee and advise on the Radiation Safety Program. The X-ray Committee is a sub-committee that is creating an X-ray Safety Program. All X-ray equipment at the University must be registered with EHSO. Registered X-ray equipment have this sticker:

Effective July 1, 2011, all X-ray equipment used at the University outside of the Faculty of Dentistry must be listed on an Internal X-ray Permit. To operate the equipment, all conditions of the permit must be met.

The Environmental Health and Safety Office (EHSO) provide staff and resources for the day to day operations of the Radiation Safety Program.

What kind of X-ray Equipment is used at the University?

There are three basic categories:

Dental X-ray equipment

Other X-ray equipment used on humans and animals for research purposes (eg. DEXA, fluoroscope)

Laboratory X-ray equipment used to study materials (eg. X-ray diffraction, electron microscope)

How can I stay safe?

When a room is posted -

DANGER - DO NOT ENTER

Do not enter unescorted except for Life Safety or Building Safety reasons.

When a room is posted “CAUTION”, under normal operating conditions, it is safe to work in the same room with X-ray Equipment. Ask the operator of the equipment or the person listed on the door sign for more specific information.

Never operate anything labeled “X-ray” unless you are authorized.

In case of an emergency follow the instructions in your emergency plan. For more information the posters at the entrance include Emergency Contact information for the persons responsible for the X-ray equipment, as well as the phone numbers for EHSO and Security Services (24 hour).

How do I get more information or safety training?

Talk to your supervisor and contact EHSO.

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ENVIRONMENTAL HEALTH and SAFETY OFFICE

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http://www.umanitoba.ca/admin/human_resources/ehso

After Hour Emergencies Call 555 from all U of M phones or #555 from cell phones on Rogers Wireless and MTS Mobility

email: EHSO@umanitoba.ca