

## 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 means you may enter and perform duties.** The hazard is minimal.

*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:**



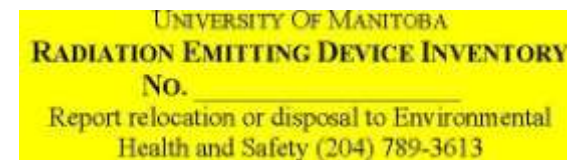
**DANGER - DO NOT ENTER**

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.

Details on the X-ray Safety Program are found at [http://www.umanitoba.ca/admin/human\\_resources/ehso/rad\\_safety/reds.html](http://www.umanitoba.ca/admin/human_resources/ehso/rad_safety/reds.html)

## 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)



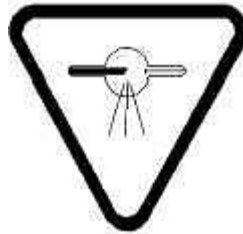
## How can I stay safe?

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.



Updated  
August 9, 2011



### ENVIRONMENTAL HEALTH and SAFETY OFFICE

Fort Garry 474-6633 Bannatyne 789-3613  
Fax- 474-7629 Fax 789-3906

[http://www.umanitoba.ca/admin/human\\_resources/ehso](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](mailto:EHSO@umanitoba.ca)

