# **KINGSTON GENERAL HOSPITAL**

## **IMAGING SERVICES DEPARTMENT MANUAL**

Subject:	Safe Work Procedure for Mobile Fluoroscopy	Number:	17-001(4)
Prepared by:	Director, Imaging Services	Page: Original Issue:	1 of 2 2005.07
Reviewed by:	Department Head	Last Revision:	2009.08
		Date Revised:	2013.08

#### POLICY

Mobile fluoroscopy procedures are performed throughout Kingston General Hospital (KGH) for diagnostic, interventional, surgical and experimental purposes.

It is the policy of Kingston General Hospital that all authorized staff working with mobile fluoroscopy equipment be aware of the following procedure to ensure compliance with all pertinent regulatory requirements and also to ensure that personal exposures are kept As Low As Reasonably Achievable (ALARA).

### PROCEDURES

#### A. Authorization to operate mobile fluoroscopy equipment

Mobile fluoroscopy equipment throughout KGH may only be operated by physicians or medical radiation technologists with current registration with the College of Medical Radiation Technologists of Ontario and in compliance with the Canadian Healing Arts Radiation Protection Act, Occupational Health & Safety, X-ray Safety and Safety Code 35. Operation of the machine includes plugging it in and setting it up.

#### **B.** Responsibilities

The person or persons authorized to operate mobile fluoroscopy equipment (see A) must ensure the following:

- Only authorized personnel are present in working areas.
- No one is present in the room other than those essential for the exposure when equipment is operated.
- The door to the room is firmly closed prior to exposure.
- That fluoroscopy time is kept to the minimum necessary for the particular procedure.
- That the image intensifier be positioned as close to the patient as is practical.
- That optimum collimation and appropriate magnification be used and that exposure reduction factors are maximized in order to ensure that doses are kept As Low As Reasonably Achievable.
- Mobile fluoroscopy rooms are used for only 1 patient at a time.
- That female patients of childbearing age (between 10 and 65 years of age) be asked whether there is any chance that they are pregnant. In the event of a suspected or actual pregnancy, the physician and radiologist must consider the risks and benefits of the examination in light of the potential dose to the fetus. The medical physics department can be consulted for dose determination to the fetus and the radiation protection department can advise on risks.
- That personal be positioned at a safe distance from the unit behind a portable lead shield whenever possible.
- That the warning sign be posted on the door during exposures.

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### C. Dosimetry

- All authorized personnel must wear Thermo Luminescent Dosimeters (TLD) or Optical Stimulated Luminescence Dosimeter (OSL) when around Mobile Fluoroscopy equipment.
- Personnel wearing portable shielding should wear their TLD or OSL at the appropriate location beneath the portable shielding (whole body TLD should be worn between neck and waist and under two layers of lead and the neck dosimeter is worn outside on the thyroid collar).
- All authorized personnel who are routinely within 1 meter (39 inches) of the entry point of the direct beam to the patient should wear a thyroid and whole body TLD.

### **D.** Protection

- Any person in the operating room at the time that the patient is exposed must wear a whole body lead apron and should wear a thyroid protector.
- Lead shielding is available for the hands but is not required when in the operating room at the time of exposure.
- Whenever possible, the patient must wear a lead apron during exposures.

#### E. Reporting Incidents

- Any potential incidents must be reported to the Radiation Protection Officer or designate.
- All other applicable incident forms must be filled in. See the charge technologist to find out which forms are required.

### F. Between Operations

The operating pedal should be stowed securely away from errant feet between cases.

### G. Turning the Equipment Off at the End of the Working Day

- At the end of the working day, the authorized user must ensure that the fluoroscopy apparatus is turned off and that the key is removed.
- The operating pedal must be securely stowed in the designated area.

Authorizing Signature:

Dr. Annette McCallum Department Head