



3T/7T MRI FACILITY

SOP Number:	100.00c
Title	Subject Screening and Approval Procedure

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100.00c	07 Nov 2016	New

Associate Director Signature: _____

Date: _____

ROBARTS RESEARCH INSTITUTE
CENTRE FOR FUNCTIONAL AND METABOLIC MAPPING:
3T/7T MRI FACILITY

Standard Operating Procedure #100.00c

Subject Screening and Approval Procedure

1. Introduction

- 1.1 Research involving Magnetic Resonance Imaging (MRI) at high magnetic field strengths presents unique hazards to both research subjects and individuals working within and around the MRI system. Consequently, the potential for serious personal injury is present due to the sheer magnitude and strength of the static magnetic field along with the immense flexibility of the research system and associated peripheral hardware.
- 1.2 The static magnetic field in the 3T/7T MRI Facility is always present. It is essential that everyone entering the facility is aware of the presence of the magnetic field, since we cannot otherwise detect it (i.e. magnetic fields cannot be seen or felt).
- 1.3 Applied radiofrequency and switching gradient fields, during normal MRI operation, have the ability to induce electrical currents within conducting materials such as surgically implanted devices. Any interaction with these materials have the potential to produce localized heating, with the potential of damage and/or burns to tissue.
- 1.4 MRI screening, prior to examinations, is the first procedure to ensure subject safety during the MRI scanning process.

2. Screening procedure

- 2.1 Prior to scheduling an MRI for a research subject the following procedure must be followed:
 - 2.1.1 The CFMM 'Magnetic Resonance Environment Screening Questionnaire' (Appendix 1) must be completed by the Principal Investigator or research study coordinator, with the study participant, at least 5 full business days prior to a booked MRI time slot.
 - 2.1.2 If all of the answers on the screening form are 'No' the MRI booking can proceed as normal. The screening form should be retained and brought with the research subject on the day of the booked scan to be approved and signed off by the Senior Research MRI Technologist.
 - 2.1.3 If any question(s) on the screening form are answered 'Yes', the information must be sent to the Senior Research MRI Technologist with at least 5 full business days notice for further investigation. The MRI Technologist may request additional device or material information, such as a surgical report or implanted device card, to aide in determining if there is a contraindication for MRI.
 - 2.1.4 Failure to provide all pertinent screening information, with at least 5 full business days notice, may result in the Principal Investigator being billed for the MRI time.