



# Western

Centre for Functional  
and Metabolic Mapping

## 3T/7T MRI FACILITY

<b>SOP Number:</b>	<b>250.04</b>
<b>Title</b>	<b>MRI Data Handling</b>

<b>Revision Chronology</b>		
<b>Version Number</b>	<b>Date</b>	<b>Changes</b>
250.01	19 August 2008	New Version
250.02	31 January 2013	Updated procedures
250.03	27 October 2015	Update server address
250.04	28 May 2019	Complete Revision to new Dicom Server

**Associate Director Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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

**Standard Operating Procedure #250.04**

**MRI Data Handling**

**1. Introduction**

- 1.1 The 3T/7T MRI Facility is used primarily for *in-vivo* studies of human and animal structure and function. These studies include assessment of metabolism and physiology, cognitive function and vascular dynamics, not only in normal and research patient populations, but also in *in-vitro* and animal models using a variety of advanced nuclear magnetic resonance imaging and spectroscopy techniques. The 3T/7T Facility represents a unique national resource for state-of-the-art evaluation of structure and functional activity using a variety of MRI and MRS techniques in a research setting. The facility resources are available to peer-reviewed grant funded scientific collaborators with appropriate Review Ethics Board (REB) protocols in place, see SOP#210: "New Protocols and Ethics".
- 1.2 Certified MR Tech support is provided for scanner operation and is included in hourly rates. The CFMM also employs the services of casual MR technologists and technical staff who may be available to scan off-hours. Specific enquiries should be made through the unit Head Operator.

**2. Data Handling**

- 2.1 All data collected in the 3T/7T MRI Facility is stored on a dicom server at dicom.cfmm.robarts.ca. The data will remain archived on the server indefinitely; however, it is the researchers' responsibility to download and archive their data in the appropriate locations for processing, analysis and storage.
- 2.2 There are post-processing algorithms available for reconstructing the raw data collected at the 3T/7T MRI Facility and converting it to a format readable by Brain Voyager, Stimulate and other imaging programs. The investigator and/or Research Personnel are responsible for reconstructing and analysing the data.

**3. Downloading Data**

- 3.1 Data collected in the 3T/7T MRI Facility is transferred to a dicom server immediately after the scan is complete.
- 3.2 For information regarding how to download the data please click on the following link to follow the instructions:

[https://dicom.cfmm.robarts.ca/dm/docs/accessing\\_data](https://dicom.cfmm.robarts.ca/dm/docs/accessing_data)