



Magnetic Resonance Enterography Manual

Trial Title: A randomised, multi-centre, biomarker-stratified, open-label trial in patients newly diagnosed with Crohn's disease.

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1 Introduction

This guide will highlight how to undertake the Magnetic Resonance Enterography (MRE) for the PROFILE trial.

2 Pre-Procedure Preparation

Patients should not eat any non-solid food for 4-6 hours pre-MRE procedure and should not drink any fluids for 4-6 hours pre-MRE, aside from non-sparkling water.

Oral contrast agent should be administered prior to the MRE scan as per local hospital guidelines. The choice of contrast agent selected, will be at discretion of local treating team.

Contrast used should be in excess of 500mls, and exact volume will be at discretion of local centre. The type and length of ingestion should be in accordance with local guidelines.

3 Recording the Procedure

3.1 MRE preparation

1. The patient should be placed in a supine position for scanning during the MRE procedure.
2. Optimal field strength will be achieved by using 1.5T.
3. Buscopan 20mg, or suitable alternative spasmolytic should be administered intravenously.

3.2 MRE Sequences

1. 3mm thickness should be obtained for images pre and post contrast. 5mm thickness images for remainder of sequences.
2. Axial and coronal T2 steady state fast spin echo without fat saturation.
3. Axial and coronal FIESTA.
4. Axial and coronal T2 steady state fast spin echo with fat saturation.
5. Axial DWI B=0-600.

4 Storing the Files

MRE images must be saved onto the PACS imaging system and linked to Addenbrooke's Hospital, Cambridge University Hospitals.

These MRE images will subsequently be used for central reading.