# An evaluation of general practitioners' use of magnetic resonance imaging (MRI)

Submission date	Recruitment status No longer recruiting	<ul><li>Prospectively registered</li></ul>		
23/01/2004		☐ Protocol		
Registration date 23/01/2004	Overall study status Completed	Statistical analysis plan		
		[X] Results		
Last Edited	Condition category	[] Individual participant data		
12/12/2013	Other			

#### Plain English summary of protocol

Not provided at time of registration

## Contact information

#### Type(s)

Scientific

#### Contact name

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# Additional identifiers

**EudraCT/CTIS** number

**IRAS** number

ClinicalTrials.gov number

Secondary identifying numbers

PSI03-44

# Study information

#### Scientific Title

#### **Study objectives**

- 1. To determine base line data on current use of Magnetic Resonance Imaging (MRI) by general practitioners and its effect on referrals and patient management
- 2. To develop consensus-based referral guidelines for GPs for the two anatomical sites most frequently requested by GPs
- 3. To compare two methods of accessing MRI with rates of appropriate scan requests as the main outcome measure
- 4. To develop education and audit materials with which to disseminate the referral guidelines
- 5. To evaluate the impact of the two interventions on GP knowledge and appropriateness of scan request
- 6. To assess the cost effectiveness of the different implementation strategies

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Not provided at time of registration

#### Study design

Randomised controlled trial

#### Primary study design

Interventional

#### Secondary study design

Randomised controlled trial

#### Study setting(s)

GP practice

#### Study type(s)

Screening

#### Participant information sheet

#### Health condition(s) or problem(s) studied

GPs' use of MRI scans

#### **Interventions**

Face to face qualitative interviews were conducted with a sample of general practitioners. Data from the interviews were used by a panel of doctors from primary and secondary care to develop guidelines for the appropriate referral of patients for MRI of the knee and of the lumbar spine.

General practices were randomised to access MRI by telephone or letter. Referrals were judged by the panel (blind) for appropriateness with the guidelines as criteria. A difference in the proportion of appropriate scan requests before telephone and written access groups was assessed using the chi-square test. Costs of method of access were determined.

GP knowledge was assessed immediately before and three months after the intervention by postal questionnaire. Telephone interviews with GPs for all subsequent scan requests provided data on which the panel (again blind) assessed against the guideline criteria. The association between practice, patient and randomisation variables with concordance was assessed using stepwise logistic regression. Clustering effects were accounted for by multi-level modelling. The cost of each intervention was measured.

Practices were randomised to receive:

- a. Educational seminar
- b. Audit feedback
- c. Seminar and audit feedback
- d. None

All four groups received guidelines.

#### Intervention Type

Other

#### Phase

**Not Specified** 

#### Primary outcome measure

- 1. Consensus guidelines produced, feedback from GPs
- 2. Concordance of requests with guidelines
- 3. Knowledge of indications and contraindications for MRI
- 4. Cost of method of access
- 5. Cost of implementation strategy

#### Secondary outcome measures

No secondary outcome measures

#### Overall study start date

01/04/1995

#### Completion date

01/06/1998

# Eligibility

#### Key inclusion criteria

150 general practitioners in 39 practices

#### Participant type(s)

**Patient** 

#### Age group

#### **Not Specified**

#### Sex

**Not Specified** 

#### Target number of participants

150

#### Key exclusion criteria

No exclusion criteria

#### Date of first enrolment

01/04/1995

#### Date of final enrolment

01/06/1998

## Locations

#### Countries of recruitment

**United Kingdom** 

Wales

# Study participating centre Department of General Practice

Cardiff United Kingdom CF23 9PN

# Sponsor information

#### Organisation

Record Provided by the NHS R&D 'Time-Limited' National Programme Register - Department of Health (UK)

#### Sponsor details

The Department of Health Richmond House 79 Whitehall London United Kingdom SW1A 2NL +44 (0)20 7307 2622 dhmail@doh.gsi.org.uk

#### Sponsor type

Government

#### Website

http://www.doh.gov.uk

# Funder(s)

#### Funder type

Government

#### Funder Name

NHS Primary and Secondary Care Interface National Research and Development Programme (UK)

# **Results and Publications**

#### Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration

#### **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/05/2002		Yes	No