

# Application of static magnetic fields versus copper for the relief of pain in osteoarthritis: a randomised double-blind placebo controlled trial

<b>Submission date</b> 15/10/2004	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered
<b>Registration date</b> 06/12/2004	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 07/03/2017	<b>Condition category</b> Musculoskeletal Diseases	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

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## Additional identifiers

**Protocol serial number**  
N/A

## Study information

**Scientific Title**

Application of static magnetic fields versus copper for the relief of pain in osteoarthritis: a randomised double-blind placebo controlled trial

**Acronym**

MACROPOD (Magnetic And Copper therapy for the Relief Of Pain in Osteoarthritis: a randomised Double-blind placebo-controlled trial)

**Study objectives**

Study aims:

1. To investigate the therapeutic efficacy of commercially available magnetic and copper bracelets as an adjunct to practitioner led management of osteoarthritic pain
2. To evaluate the potential economic impact of static magnetic therapy (SMT) and to gather evidence relating to safety of the devices under investigation
3. To address both local and more widespread needs in terms of providing rigorous scientific evidence relating to the efficacy of magnetic and copper bracelets

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Not provided at time of registration

**Study design**

Randomised double-blind placebo controlled trial

**Primary study design**

Interventional

**Study type(s)**

Not Specified

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

Osteoarthritis

**Interventions**

The trial will use a randomised double-blind placebo controlled crossover design. All participants will undertake one of four randomly allocated treatment sequences consisting of four phases (one active and three control). During the active phase participants will wear the MagnaMax® static magnetic device for a period of four weeks. During the three control (placebo) phases, which will each last for four weeks, all participants will in turn wear: an otherwise identical low strength static magnetic device, a demagnetised device and a copper bracelet.

**Intervention Type**

Other

**Phase**

Not Specified

**Primary outcome(s)**

Not provided at time of registration

**Key secondary outcome(s)**

Not provided at time of registration

**Completion date**

31/12/2006

## Eligibility

**Key inclusion criteria**

1. 18 years of age or over
2. Diagnosis of osteoarthritis
3. In receipt of prescribed non-steroidal anti-inflammatory drugs (NSAIDs) and opioid/opioid compound analgesic medication
4. Responsible for administering own medication
5. Reporting pain associated with osteoarthritis

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

Not Specified

**Key exclusion criteria**

1. Confounding medical condition/disease
2. Pain lasting less than 6 weeks in total duration prior to recruitment
3. Pacemaker, insulin pump or similar device fitted
4. Pregnant women

**Date of first enrolment**

01/01/2005

**Date of final enrolment**

31/12/2006

## Locations

**Countries of recruitment**

United Kingdom

England

**Study participating centre**  
**301 Hertford Building**  
Hull  
United Kingdom  
HU6 7RX

## Sponsor information

### Organisation

The University of Hull (UK)

### ROR

<https://ror.org/04nkhwh30>

## Funder(s)

### Funder type

Hospital/treatment centre

### Funder Name

Wolds Primary Care Research Network (WOREN) and West Hull Primary Care Trust (uk)

## Results and Publications

### 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?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<a href="#">Study website</a>	Study website	11/11/2025	11/11/2025	No	Yes