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# A comparative study of the effects of absorbable and non-absorbable sutures on wound healing - a prospective randomised clinical study

**Submission date**
30/09/2005

**Recruitment status**
No longer recruiting

**Registration date**
30/09/2005

**Overall study status**
Completed

**Last Edited**
11/09/2012

**Condition category**
Injury, Occupational Diseases, Poisoning

[_] Prospectively registered
[_] Protocol
[_] Statistical analysis plan
[X] Results
[_] Individual participant data

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

## Contact information

**Type(s)**
Scientific

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## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**

### Secondary identifying numbers
N0436146690

# Study information

### Scientific Title

### Study objectives
1. To compare and evaluate the outcome of elective surgical wound repair in the hand using absorbable and non-absorbable suture materials, in terms of wound infection, scarring, erythema and dehiscence.
2. To evaluate the outcome of wound healing in terms of patient satisfaction and comfort.

### Ethics approval required
Old ethics approval format

### Ethics approval(s)
Not provided at time of registration

### Study design
Randomised controlled before-after trial

### Primary study design
Interventional

### Secondary study design
Randomised controlled trial

### Study setting(s)
Hospital

### Study type(s)
Treatment

### Participant information sheet

### Health condition(s) or problem(s) studied
Injury, Occupational Diseases, Poisoning: Wound healing

### Interventions
Absorbable vs non-absorbable sutures

### Intervention Type
Other

### Phase
Not Specified

### Primary outcome measure

The wounds will be assessed for quality of the scar ie erythema, scarring-hypertrophy and spread, and stitch marks. The upper and lower halves of each wound will be assessed separately. The assessor will not be told which half of the wound was closed using the prolene suture. The patients will also be asked to fill in short questionnaire relating to discomfort to stitch removal and any difference noticed by the patient within each half of the wound in the three/six month post of period.

### Secondary outcome measures
Not provided at time of registration

### Overall study start date
01/10/2003

### Completion date
01/10/2004

## Eligibility

### Key inclusion criteria
This prospective randomised clinical study will be carried out on 50 patients undergoing standard elective carpal tunnel release under local anaesthetic, in the hand surgery day unit at Leeds St. James' Hospital (under the care of the plastic surgical unit).

### Participant type(s)
Patient

### Age group
Adult

### Sex
Both

### Target number of participants
50

### Key exclusion criteria
1. Patients having re-do surgery
2. Patients undergoing combined procedures
3. Patients under the care of the orthopaedic hand surgeons
4. Patient with diabetes
5. Patients known to be on steroids or immuno-suppressants

### Date of first enrolment
01/10/2003

### Date of final enrolment
01/10/2004

## Locations

**Countries of recruitment**
England

United Kingdom

**Study participating centre**
**Department of Plastic Surgery**
Leeds
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# Sponsor information

**Organisation**
Department of Health

**Sponsor details**
Richmond House
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**Sponsor type**
Government

**Website**
http://www.dh.gov.uk/Home/fs/en

# Funder(s)

**Funder type**
Government

**Funder Name**
Leeds Teaching Hospitals NHS Trust (UK), NHS Research and Development Support Funding

# 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 | 01/02/2005 | | Yes | No |