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Outcomes in using biodegradable fixation materials for fractures of the ankle

Submission date	Recruitment status	[ ] Prospectively registered
13/05/2008	No longer recruiting	[ ] Protocol
Registration date	**Overall study status**	[ ] Statistical analysis plan
05/11/2008	Completed	[ ] Results
Last Edited	**Condition category**	[ ] Individual participant data
30/11/2012	Injury, Occupational Diseases, Poisoning	[ ] 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
08/H1005/47

Study information

Scientific Title
The use of biodegradable fixation system for closed fractures of the ankle

Study objectives

There is a clinical difference in using biodegradable fixation methods in ankle fractures.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Received from the Liverpool Adult Local Ethics Committee on the 22nd September 2008 (ref: 08 /H1005/47).

Study design
Randomised controlled trial

Primary study design
Interventional

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Closed fractures of the ankle

Interventions
All patients who meet the inclusion criteria will be identified on admission and given the choice of entering the trial at which point they will sign a consent form. Patients can exit the trial at any point. Two cohorts of patients will exist, those for traditional fixation with a neutralisation plate, screws and medial malleolar screws, and there will also be those who have the biodegradable implants used.

Randomisation will be done using block randomisation. Four treatments, two of each kind, will be allocated to the block. All combinations for the order of treatment will be included. Consequently there will be six blocks. A random number generator will then be use to allocated a block of treatment to each sequence of four successive patients.

Intervention Type
Other

Phase
Not Specified

Primary outcome(s)
1. The American Orthopaedic Foot and Ankle Society (AOFAS) ankle score
2. Visual Analogue Scale score
3. Olerud and Molander score

Patients will be followed up on a routine basis at 3 months and 6 months.

Key secondary outcome(s))
1. Time of injury to operation
2. Tourniquet time
3. Past medical history
4. Co-morbidities

5. Smoking history
6. Time non-weight bearing post-operation
7. Further surgery
8. Complications

Patients will be followed up on a routine basis at 3 months and 6 months.

Completion date
01/06/2009

Eligibility

Key inclusion criteria
1. Aged 18 - 65 years, either sex
2. Closed ankle fractures

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Lower age limit
18 years

Sex
All

Key exclusion criteria
1. Children
2. Open wounds
3. Infection
4. Conditions that limit blood supply to the feet
5. Insufficient quality/quantity of bone
6. Poor patient co-operation (alcoholics/intravenous drug users [IVDUs])
7. Diabetics
8. Patients with peripheral nerve conditions
9. Adult unable to give consent

Date of first enrolment
01/06/2008

Date of final enrolment
01/06/2009

Locations

Countries of recruitment
United Kingdom

England

Study participating centre
Wirral University Teaching Hospital NHS Foundation Trust
Wirral
United Kingdom
CH49 5PE

Sponsor information

Organisation
Wirral University Teaching Hospital NHS Foundation Trust (UK)

ROR
https://ror.org/05cv4zg26

Funder(s)

Funder type
Industry

Funder Name
Inion Ltd (UK) - providing biodegradable plates on a cost-neutral basis

Funder Name
No further funding is required or has been requested.

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?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes