# Treatment of midshaft clavicle fractures: plate fixation versus figure-of-eight bandage.

| Submission date   | Recruitment status                       | Prospectively registered                      |
|-------------------|--|---|
| 28/01/2010        | No longer recruiting                     | ☐ Protocol                                    |
| Registration date | Overall study status                     | Statistical analysis plan                     |
| 18/02/2010        | Completed                                | Results                                       |
| Last Edited       | Condition category                       | Individual participant data                   |
| 18/02/2010        | Injury, Occupational Diseases, Poisoning | <ul><li>Record updated in last year</li></ul> |

#### Plain English summary of protocol

Not provided at time of registration

#### Contact information

#### Type(s)

Scientific

#### Contact name

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#### Contact details

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# Additional identifiers

Protocol serial number N/A

# Study information

Scientific Title

Treatment of midshaft clavicle fractures: plate fixation versus figure-of-eight bandage: Randomised controlled clinical trial

#### **Study objectives**

There is no difference between surgical versus conservative interventions for treating midshaft clavicle fractures

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

The Ethics Committee of The Universidade Federal de São Paulo/Hospital São Paulo approved on the 29th of August 2008 (ref: CEP 0891/08 UNIFESP)

#### Study design

Randomised active controlled parallel group clinical trial

#### Primary study design

Interventional

#### Study type(s)

Treatment

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

Clavicle fractures

#### **Interventions**

Patients will be randomised to

1. The surgical group (plate fixation):

All participants will be undergo the operation within two weeks after the injury; prophylactic antibiotics will be used. Under a general anaesthetic, the patient will be positioned in a beach-chair semi-sitting position. The involved shoulder will be prepared and draped, and an oblique incision will be made over the fracture site. The fracture site will be identified, and the fracture will be reduced and fixed with an antero-inferior plate (3.5 mm reconstruction plate). A sling will be used for comfort for seven to ten days, and then a physiotherapist will instruct the patient. 2. Figure-of-eight bandage:

In the conservative group, the figure-of-eight bandage will be used for 6 weeks, and every week the participants will return to check and adjust the immobilisation. In this way, the dominant hand can remain free and simple activities will be allowed (writing, keyboarding and other). After 6 weeks, participants will be encouraged to discard the bandage, but load bearing will not be recommended before osseous consolidation (around ten weeks).

Identical care program for rehabilitation will be done in each of compared groups. Following enrolment in the study, all the participants will be seen every week during the first 6 weeks and at 3, 6 and 12 months and all primary and secondary outcomes will be reported.

#### Intervention Type

Other

#### Phase

#### Primary outcome(s)

Disability of Arm Shoulder and Hand (DASH) questionnaire, assessed at 3, 6 and 12 months

#### Key secondary outcome(s))

- 1. Range of movement
- 2. VAS (visual analogue scale)
- 3. Cosmetic appearance, assessed at the end of the follow up period
- 4. Time to consolidation
- 5. Clavicular length or shortening and shift
- 6. Complications / failure of treatment, monitored throughout the follow up period All outcomes will be assessed at 3, 6 and 12 months unless otherwise stated.

#### Completion date

01/01/2012

# Eligibility

#### Key inclusion criteria

- 1. Adults age 18-60
- 2. Patients with completely displaced middle third clavicle fractures, amenable to plate fixation with a minimum of three screws in both fragments

Recruitment of participants will take place in emergency centres of two hospitals in Espirito Santo and Sao Paulo, Brazil.

#### Participant type(s)

Patient

#### Healthy volunteers allowed

No

#### Age group

Adult

#### Lower age limit

18 years

#### Upper age limit

60 years

#### Sex

All

#### Key exclusion criteria

- 1. Open fractures
- 2. Age under 18 or over 60 years
- 3. Fracture in the proximal or distal clavicle
- 4. Fracture associated with nerve or tendon injuries
- 5. Multiple injuries

- 6. Additional fractures in the same or contra-lateral limb
- 7. Previous fracture of the injured clavicle
- 8. Abnormal function of the uninjured side
- 9. Inflammatory joint disease
- 10. Cerebrovascular disease or other severe medical illness
- 11. Inability to give informed consent or to complete questionnaires

#### Date of first enrolment

01/01/2008

#### Date of final enrolment

01/01/2012

## Locations

#### Countries of recruitment

Brazil

# Study participating centre Department of Orthopaedics and Traumatology,

São Paulo Brazil 04038-032

# Sponsor information

#### Organisation

Universidade Federal de Sao Paulo (UNIFESP) (Brazil)

#### **ROR**

https://ror.org/00bkgf580

# Funder(s)

#### Funder type

University/education

#### Funder Name

Universidade Federal de Sao Paulo (UNIFESP) (Brazil)

# **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 No Yes