

Trauma 2020, Vol. 22(2) 165–166 © The Author(s) 2019 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/1460408619885519 journals.sagepub.com/home/tra



A useful technique of reduction for distal radius fractures

Georgios Orfanos^{1,2}, Munnan Al-Najjim^{1,2} and Rohit Amol Singh^{1,2}

Sir John Charnley described a method of three-point fixation when applying a moulded plaster. The principles of fracture reduction are longitudinal traction, exaggeration of the fracture and then correction of the deformity. We present a novel technique which



Figure 1. Demonstration of the technique in antero-posterior view.



Figure 2. Demonstration of the technique in lateral view.

enables a single person to reduce a severely displaced distal radius fracture whilst simultaneously applying counter traction, for formal manipulation under anaesthesia.

The patient is positioned supine with the shoulder abducted to 90° , elbow flexion to 90° and arm pronated. The surgeon uses the posterior aspect of their thigh with the aid of gravity to provide counter traction to enable reduction of the fracture (Figures 1 and 2). Fracture reduction is checked and the image intensifier is used as a platform for applying a cast.

This is a time-efficient technique that can be used without an assistant. It uses inexpensive materials and applies the basic orthopaedic surgical principles of three-point fixation to achieve good fracture reduction.¹

Acknowledgements

None.

Declaration of conflicting interests

The author(s) declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

Funding

The author(s) received no financial support for the research, authorship, and/or publication of this article.

Ethical approval

Not applicable.

Corresponding author:

Georgios Orfanos, Apartment 62 Latitude, 155 Bromsgrove Street, Birmingham B5 6AB, UK. Email: g.orfanos@nhs.net

 $^{^{\}rm I}$ Royal Shrewsbury Hospital, The Shrewsbury and Telford Hospital NHS Trust, Shrewsbury, UK

²The Robert Jones and Agnes Hunt Orthopaedic Hospital NHS Foundation Trust, Oswestry, UK

Trauma 22(2)

Informed consent

Not applicable.

Guarantor

RAS.

Contributorship

All authors have been involved in the conception and design of the study, acquisition of data, analysis and interpretation of data. The paper has been reviewed multiple times by all authors.

Provenance and peer review

Not commissioned, externally peer reviewed.

ORCID iD

Georgios Orfanos (D) https://orcid.org/0000-0002-8458-0860

Reference

1. Charnley J. *The closed treatment of common fractures*. Cambridge: Colt Books, 1999.