Percutaneous fixation of calcaneal fractures; wires or screws

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My disclosure is in the Final AOFAS Mobile App.
I have no potential conflicts with this presentation.
Introduction

- Percutaneous reduction and fixation of tongue type and avulsion calcaneal fractures is frequently used to reduce wound related complications. Wires and screws are used. Failures were observed and reported in the literature. To reduce failures the use of larger diameter screws were recommended. The aim of this study is to compare screws versus wires for percutaneus calcaneal fractures fixation.
Methods

- A retrospective study was performed in Hamad General Hospital. Time of surgeries in the years 2011 and 2012. Fractures characteristics and patients demographics were comparable. Patients were followed until fracture union. Failure of fixation is considered in this presentation.
Results

- fifteen percutaneous calcaneal fractures fixations were included. Wires were used in eight patients, screws were used in seven. Failure occurred in two cases fixed with screws. No failure occurred in the wires group.
Displaced avulsion fracture after screw fixation
Conclusion

• Despite limitation of the study due to the low patient number, our results suggest that failure in percutaneus calcaneal fracture fixation is related to the direction of the implant rather than its diameter or thread characters. More transverse orientation of the implant is suggested.
References

- **Executive Editors:** Chris Colton, Steve Krikler, Joseph Schatzker, Peter Trafton
- **AO Surgery Reference**
- **Comprehensive online reference in clinical life**


