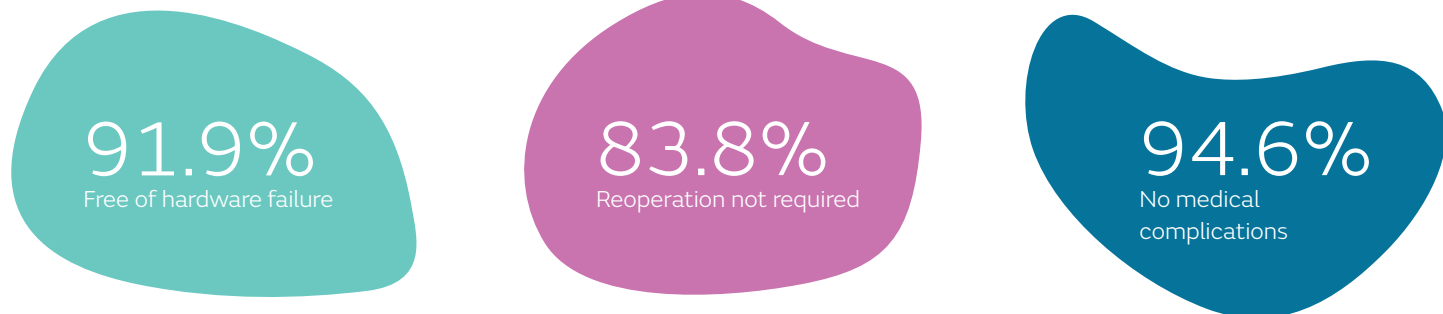


## + Evidence in focus

Publication summary: Dang KH, et al. *Injury* (2019)\*

# Low hardware failure rate with the EVOS<sup>◇</sup> MINI Plating System for pilon fracture fixation

## + Plus points



## Overview

- Retrospective, single-centre case series evaluating the safety and effectiveness of the EVOS MINI Plating System for pilon fracture fixation
- 37 patients with injuries from high energy mechanisms (37 fractures) had a mean age of 38.4 years and relatively high rates of obesity (45.9%) and tobacco use (48.6%)
- Primary outcome: mechanical hardware failure at a mean follow-up of 299 days
- Secondary outcomes included: reoperation rates and medical complications

## Results

- Treatment success without hardware failure in 34/37 patients (91.9%)
- Reoperation was required for 6/37 patients (16.2%; Table)
- Medical complications occurred in 2/37 patients (5.4%):
  - Acute renal failure in the setting of end stage renal disease (n=1)
  - Thrombophlebitis at the intravenous site (n=1)

Table. Reason for reoperation following pilon fracture fixation with the EVOS MINI Plating System

Reason for reoperation	Patients, n (%)
Infection	2 (5.4%)
Non-union repair	2 (5.4%)
Mal-union repair	1 (2.7%)
Symptomatic hardware removal	1 (2.7%)

## Conclusions

Early clinical results of the EVOS MINI Plating System demonstrate safety and effectiveness, with low mechanical failure, reoperation and complication rates.

## Citation

\*Dang KH, Ornell SS, Huynh RA, DeLeon JC, Pesek R, Karia RA. Early clinical and radiographic outcomes of a mini-fragment, low profile plating system in tibial plafond fractures. *Injury*. 2019 Jul 23. [Epub ahead of print] Available at: [Injury](https://doi.org/10.1016/j.injury.2019.07.023)