



# AB180. SOH22ABS229. Surgical management and post-operative functional outcomes of patients with penile fracture: a retrospective review of a single institution's experience over 10 years

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**Background:** Immediate surgical intervention has been shown to yield good clinical outcomes in patients with penile fractures. We report a single institution experience of this relatively uncommon injury.

**Methods:** Theatre logbooks were manually screened, between 2011 and 2021, to identify patients who underwent penile exploration for suspected fracture. Patients found to not have a fracture intra-operatively and patients with missing clinical data were excluded from the analysis.

**Results:** After exclusion of 2 patients due to missing clinical data, we identified 15 patients that underwent surgical exploration, 11 of which having a confirmed penile fracture intra-operatively. 'Aubergine sign' was present in all patients at initial presentation. Trauma to the erect penis during sexual intercourse was the most common mechanism of injury (9/11, 81.8%). Of the 11 patients, 6 had unilateral injury of one corporal body, 3 had injury of both corpora cavernosa, 1 one had a buck's fascia tear, and 1 had involvement of both corporal bodies as well as corpus spongiosum. There were 4 cases of associated urethral injury identified and repaired at the time of surgery. One of these patients later required a formal urethroplasty due

to stricture disease and urge incontinence. All patients had preserved erections post-operatively, however two reported erectile dysfunction and were prescribed phosphodiesterase inhibitors.

**Conclusions:** Results of our cohort show an excellent erectile function outcome following surgical repair of penile fracture. Four patients had a urethral injury evident, one of whom required a formal urethroplasty at a later date.

**Keywords:** Penile fracture; urethral injury; erectile dysfunction; penile injury; urethral stricture

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## Footnote

*Conflicts of Interest:* The authors have no conflicts of interest to declare.

*Ethical Statement:* The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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