

## PP-093

### **A review of over 1,000 ESWL patients treated at a single surgery center over a 9 year period with the Wolf 3000 lithotripter**

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**Objectives:** To review our experience with the newest generation piezoelectric lithotripter, the Wolf 3000, in adult patients undergoing extracorporeal shock wave lithotripsy for urinary calculi.

**Methods:** We identified over 1,000 shock wave lithotripsy procedures that had used the Wolf 3000 from 2004-2012. All procedures were performed under intravenous sedation. Retrospective chart review was used to obtain the pertinent information. Stone-free status was defined as the absence of any fragments, and success as the absence of stone fragments >4 mm, on follow-up imaging after a single treatment.

**Results:** The stone-free and success rate 2 month after a single shock wave lithotripsy session was 50% and 65%, respectively. Only stone size correlated with the overall success rate. The overall complication was 15% and included a 1% major complication rate requiring intervention or admission. The median time in the procedure room was 30 minutes, the adjunctive procedure rate was 1.5%, and the secondary retreatment rate for a stent was 10% and for re-litho was 25%.

**Conclusions:** The Wolf 3000 provides acceptable, single- treatment stone free and success rates, with an excellent safety profile, and offers rapid and convenient lithotripsy requiring minimal intravenous sedation. Because of the rapidity of the procedure, the excellent safety and minimal anesthetic requirement, we are evaluating bringing the Wolf 3000 into the office setting.

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