MP 22-11

The efficacy and safety of the EMS Swiss Lithoclast® Trilogy: a European multicenter prospective study on behalf of ESUT

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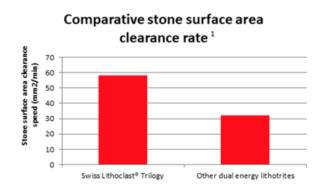


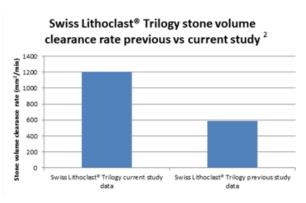


Introduction and Methods

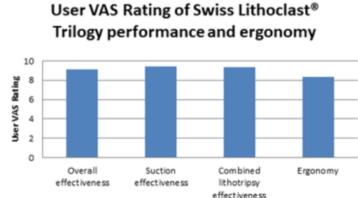
- We set out to determine the efficacy and safety of a new lithotrite, the EMS Swiss Lithoclast® Trilogy, in the first reported prospective European multicentre evaluation.
- We compare it to published clinical stone clearance rates based on surface area for other dual energy lithotrites and using the 3D calculated stone volume, to the single published series for the Lithoclast Trilogy.
- A total of 10 European centres evaluated the efficiency and safety of the EMS Swiss Lithoclast® Trilogy, in a prospective non-randomised fashion.
- Objective measures of stone clearance rate, device malfunction, stone-free rate, and complications were assessed.
- Each surgeon evaluated subjective parameters, including ergonomic and device effectiveness, for each case, related to use of Trilogy, on a 1-10 scale (10 = extremely ergonomic / effective), and compared it to their usual lithotrite on a 1-10 scale (10 = extremely effective).
- Data presented on first 53 patients.

Results and Conclusions









This multicentre prospective study has demonstrated that the new EMS Swiss Lithoclast® Trilogy is highly effective at stone removal. The device was perceived by surgeons to be highly effective overall and compared to their most commonly used previous lithotrite.