Supplementary table 1. Keywords terms used for the search and Population, Intervention, Comparator, Outcomes and Study design (PICOS) model.

**Keywords:** TIND, iTIND, temporary implantable nitinol device, Aquabeam system, Aquablation system, robot-assisted aquablation therapy of the prostate, PUL, Urolitf, prostatic urethral lift, Rezūm system, convective water vapor energy ablation.

**PICOS:** The Population, Intervention, Comparator, Outcomes and Study design (PICOS) model was as follows: the population consisted of patients with LUTS due to BPH(P); treated with prostatic urethral lift or temporary implantable nitinol device or image guided robotic waterjet ablation or convective water vapour energy ablation (I) in single arm or comparative studies (C). Outcomes of interest were the perioperative efficacy, adverse events (tolerability and safety) and the durability of the procedure at follow-up (O), evaluated in studies with retrospective or prospective design (S).