

Eight-year review of outcomes for patients with transobturator tape (TOT) midurethral sling in Hospital Pulau Pinang

Nor Azlina C Yaacob¹, Sivakumar S Balakrishnan²

¹Department of Obstetrics and Gynaecology, Hospital Raja Perempuan Zainab II, Kota Bharu, Kelantan, Malaysia, ²Department of Obstetrics and Gynaecology, Hospital Pulau Pinang, Pulau Pinang, Malaysia

ABSTRACT

Introduction: Transobturator tape (TOT) midurethral sling was introduced as the “gold standard” in treatment of stress urinary incontinence (SUI). The aim of the present study was to review the safety and efficacy of TOT procedure in the treatment of women with SUI. **Materials and Methods:** We performed a retrospective review of 45 patients and were clinically and investigation proven SUI, who were undergoing TOT procedure in the department of Obstetrics and Gynaecology Hospital Pulau Pinang from 2015 to June 2023 to report intraoperative outcomes, postoperative outcomes and subjective cure rates. **Results:** TOT was performed on 45 patients under spinal anaesthesia or general anaesthesia. Among these patients, 36 were followed-up for least 4 years; the remaining 9 patients could not be followed-up. The mean age of the women was 59.6±9.3 years and mean body mass index 26.8±4.7 kg/m². Eighty-two percent (37) of women underwent the TOT procedure in conjunction with other vaginal surgery and 17.8% (8) underwent TOT alone. The subjective analysis of the effect of surgery on the symptoms of GSI was that, overall, 77.8% were completely cured, 13.3% were significantly improved and 8.9% found no change in the severity of her incontinence. No major vessel or nerves injury occurred but 2 patients (4.4%) incurred bladder injury during surgery. De novo voiding urgency occurred in 10 patients (22.0%). Five patients (11.1%) developed voiding problem, of which patients had short term voiding problem. **Conclusion:** The TOT procedure is a relatively safe and effective, minimally invasive surgical technique for the treatment of female urinary stress incontinence.