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COMPARISON OF HOME-MADE AND INDUSTRIAL MESHES THAT USED IN SLING SURGERY

Hypothesis / aims of study
In this study, we compare the operation time, cost, vaginal erosion and success rate of home made and industrial meshes those used in Transobturator Tape (TOT) surgery.

Study design, materials and methods
81 patients who had TOT surgery between January 2008- September 2012 were included in the study. Patients were divided into 2 groups; in Group I, polyporopylene monofilament industrial meshes, in Group II polyporopylene monofilament home-made meshes were used. Operation time, cost of operation, full dryness in the first month after operation and vaginal erosion were recorded. Full dryness accepted as success of operation. In statistical analysis, Student's t and Chi-Square tests were used.

Results
There were 40 patients in Group I and 41 patients in Group II. The mean ages of group I and II patients' are 54,3 (38-76 age) and 53,8 (37-78) respectively. Mean Body Mass Index (BMI) values (In Group I patients: 29,41 kg/m², In Group II patients 28,06 kg/m²) were similar. Mean follow up period were 15,9 months in Group I and also 41,9 months in Group II. The mean operation times of Group I and II are 49,2 and 86,3 min. respectively.
Results are summarized in Table. The mean operation time and vaginal erosion rates were significantly high in Group II ($p<0,05$). Mean cost was also higher in Group II ($p<0,05$). There is no significant difference in success of operation between two groups ($p>0,05$).

	Group I	Group II	P value
Mean operastion time(min.)	49,2	86,3	p<0,05
Success of operation (%)	72,5	63,4	p>0,05
Cost of mesh ($)	110	10	p<0,05
Vaginal erosion rates (%)	0	12,2	p<0,05

Interpretation of results
Although there is not significant difference in efficacy between the two groups, the average cost of surgery is less in patients who operated with home-made mesh. However, home-made mesh costs are increased when cost of erosions added.

Concluding message
According to these results, home-made mesh is an available option in TOT surgery with low cost and similar efficacy; but surgeons should be careful in terms of vaginal erosion. Also significant vaginal erosion necessitates an evaluation in medicolegal perspective about home-made mesh.

Disclosures
Funding: No funding or grant **Clinical Trial:** Yes **Public Registry:** No **RCT:** No **Subjects:** HUMAN **Ethics not Req'd:** This procedure is a routine surgical procedure and meshes uses were accepted by Government of Health **Helsinki:** Yes **Informed Consent:** Yes