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Vaginal hysterectomy by electrosurgical bipolar vessel sealing machine versus traditional surgery

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Objective: To compare the effects of electrical bipolar vessel sealing and conventional suturing on postoperative pain, operative time, blood loss, and costs, in women undergoing vaginal hysterectomy.

Methods: 20 women scheduled to undergo vaginal hysterectomy for benign conditions. Women was randomized to vessel sealing or conventional surgery, and divided into 2 groups, A and B, 10 for each group. Vaginal hysterectomy using vessel sealing Erbe machine for Group A and traditional vaginal hysterectomy for group B. For each woman, general, abdominal and pelvic examination was done preoperatively, also pelvic ultrasound and routine preoperative investigations was performed. After vaginal hysterectomy, assessment of blood loss, post-operative

pain, operative time and costs was evaluated.

Result: The evening after surgery, women in the vessel-sealing group reported significantly less pain (5.7 versus 4.5 on a scale of 0–10, $P=0.03$), but after that pain scores were similar. Operation duration was shorter for vessel sealing (39 versus 61 minutes= $P<0.05$). Blood loss was less in group A. We observed no major difference in costs between the two interventions (2903 versus 3102, $P=0.26$).

Conclusion: Using vessel sealing machine during vaginal hysterectomy resulted in less pain on the first postoperative day, shorter operating time, less operative blood loss, but no major differences in costs were found between the two interventions.

Biography

Hamdy Mohamed Talkhan is serving at General Organization of Teaching Hospitals, Egypt since 1993 to till date. He has graduated from Al Sahel Teaching Hospital, and worked as Resident until Assistant Professor Obstetrics & Gynecology. He has been the Trainer and Examiner in Egyptian Board – Ob-Gyne. From 2008 – 2009, he was the Consultant & Head of OB-Gyne Department Mwasat Al-Jubail Hospital. From 2009 – 2014, worked as Consultant & Head of OB-Gyne Department of Prince Fahd Bin Sultan Hospital. Presently he is the Consultant & Head of OB-Gyne Department, GAMA Hospital since 2014.

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