SCIENTIFIC LETTER

A new approach to tubal re-anastomosis in South Africa

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To the Editor: Contraception by means of fallopian tube sterilisation is the most common method used worldwide, and it is estimated that on average 138 million women of reproductive age are sterilised globally each year. Several studies have indicated that the incidence of tubal re-anastomosis in previously sterilised women is 1 - 2%.¹ Laparotomy is currently seen as the gold standard for fallopian tube reversal, and this was the case at Tygerberg Hospital from 1982. However, laparoscopy has been extensively explored as a viable alternative over the past 3 decades. This technique requires expert endoscopic surgical skill. Recently laparoscopy was instituted as a reversal method at our facility owing to our interest in endoscopy.

Between January 2007 and December 2009, 27 patients at Tygerberg Hospital were identified who requested tubal re-anastomosis and fulfilled the admission criteria: 19 received a laparoscopy and 8 a laparotomy. All the patients had hysterosalpingograms from 3 months onwards. Overall patency figures of 78.9% (15/19) for laparoscopy and 75% (6/8) for laparotomy were achieved.

Post-reversal tubal patency as determined by hysterosalpingography has been reported in eight international reanastomosis projects.²⁻⁹ Mean patency in the laparotomy and laparoscopy groups was 69.9% and 69.2%, respectively. Our small series compares favourably with the international data outlined. The literature indicates that post-anastomosis pregnancy rates after laparotomy range from 40% to 91.6%.^{4,10} Pregnancy rates achieved in studies evaluating success of laparoscopy ranged from 31.2% to 82.2%^{7,11} (mean 57.8%). The laparoscopic approach offers numerous advantages for the patient, with a shorter hospital stay and less discomfort and possibly lower cost.¹²

With this letter we are informing our colleagues that the laparoscopic alternative for reversal could be offered to patients when experienced endoscopic surgeons are available.

- Yossry M, Aboulghar M, D'Angelo A, Gillet W. In vitro fertilisation versus tubal reanastomosis (sterilisation reversal) for subfertility after tubal sterilisation (Review). Cochrane Collaboration 2008, Issue 1.
- Glock JL, Kim AH, Hulka JF, Hunt RB, Trad FS, Brumsted JR. Reproductive outcome after tubal reversal in women 40 years of age or older. Fertil Steril 1996;65(4):863-865.
 Gupta I, Sawhney H, Mahajan U. Macroscopic tuboplasty: Reversal of female sterilization.
- Asia-Oceania J Obstet Gynaecol 1990;16(4):307-314.
- Kim JD, Kim KS, Doo JK, Rhyeu CH. A report on 387 cases of microsurgical tubal reversals. Fertil Steril 1997;68:875-880.
- Hanafi M. Factors affecting the pregnancy rate after microsurgical reversal of tubal ligation. Fertil Steril 2003;80:434-440.
- Stadtmauer L, Sauer V. Reversal of tubal sterilization using laparoscopically placed titanium staples: preliminary experience. Hum Reprod 1997;12(4):647-649.
 Barjot PJ, Marie G, Von Theobald P. Laparoscopic tubal anastomosis and reversal of
- bajo ro, mane G, von niecoau F. Laparoscopic tubal anastoniosis and reversa or sterilization. Hum Reprod 1999;14:1222-1225.
 Bissonnette F, Lapensee L, Bouzayen R. Outpatient laparoscopic tubal anastomosis and
- Bissoniette I, Lapensee E, Bouzgen R. Gutpatent Laparotopic tubal anastoniosis and subsequent fertility. Fertil Steril 1999;72:549-553.
 Ribeiro S, Tormena R, Giribela C, Izzo C, Santos N, Pinotti J. Laparoscopic tubal
- Noterio S, Tohneta K, ediniba C, Zizzo C, Santos N, Finott S. Laparoscopic tubal anastomosis. Int J Sprecol Obstet 2003;84:142-146.
 Petrucco O, Silber S, Chamberlain S, Warnes G, Davies M. Live birth following day surgery
- Pertucco e, solie e, chamber and e, wantes G, Davies M. Live bith holowing day sugery reversal of female sterilisation in women >40 years. Med J Aust 2007;187(5):271-273.
 Yoon TK, Sung HR, Kang HG, Cha SH, Lee CN, Cha KY. Laparoscopic tubal anastomosis: fertility outcome in 202 cases. Fertil Steril 1999;72:1121-1126.
- Hawkins J, Dube D, Kaplow M, Tulandi T. Cost analysis of tubal anastomosis by laparoscopy and by laparotomy. J Am Assoc Gynecol Laparosc 2001;9:120-124.

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