Microlaparoscopy: a comparative study of diagnostic accuracy++

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Objective: To investigate the diagnostic accuracy of microlaparoscopy in comparison to laparoscopy with a standard 10-mm laparoscope.

Design: Prospective evaluation by two independent observers.

Setting: Academic Medical Center.

Patient(s): Ten patients scheduled to undergo diagnostic laparoscopy for the indications of infertility and/or chronic pelvic pain.

Intervention(s): Two surgeons were present for each operation. Diagnostic laparoscopy was performed using the Microlap 2-mm laparoscope (Imagyn Medical Inc., Laguna Niguel, CA). Standard diagnostic laparoscopy was then performed using a 10-mm laparoscope. After each procedure, each surgeon reported his or her observations in a confidential manner to a third person to record.

Main Outcome Measure(s): Endometriosis and adnexal adhesions were staged. Observations made with the microlaparoscope were compared with those obtained with a standard 10-mm laparoscope for each surgeon. The observations of both surgeons were also compared with each other's to evaluate interobserver differences.

Result(s): Operative findings reported by each individual surgeon using the microlaparoscope correlated with the operative findings reported using the larger laparoscope. Scores for both endometriosis and adnexal adhesions did not differ in any significant way. Endometriosis scores differed by no more than 6 points, and adhesion scores differed by no more than 2 points, with no subsequent change in severity classification for either finding. Furthermore, when comparing the additional operative findings of the two surgeons, no difference was noted when using either the microlaparoscope or a standard 10-mm laparoscope.

Conclusion(s): The diagnostic accuracy achieved with microlaparoscopy is comparable to that achieved with standard 10-mm laparoscopy. (Fertil Steril® 1997;67:952-4. © 1997 by American Society for Reproductive Medicine.)

Key Words: Microlaparoscopy, diagnostic laparoscopy, laparoscopy

Laparoscopy is a common operative procedure performed by gynaecologists and is invaluable in the clinical evaluation of infertility and pelvic pain. Recent improvements in fiberoptic technology have led to the development and manufacture of minilaparoscopy or microlaparoscopy systems. Microlaparo-

Received August 26, 1996; revised and accepted January 7, 1997.

++Surgical equipment for this investigation was provided by Imagyn Medical, Inc., Laguna Niguel, California.

+ Presented at the 52nd Annual Meeting of the American Society for Reproductive Medicine, Boston, Massachusetts, November 2 to 7, 1996.

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when and how to procreate is best left to the patients and their physicians (3, 4).

Our case represents a successful pregnancy in what is evidently the oldest recipient of oocyte donation reported in the world. A previous pregnancy in a woman >62 years of age was reported in Italy (2). In that case, the patient was 61 years, 10 months, and 1 week on the day of ET and 62 years, 6 months, and 2 weeks on the day of delivery (Antinori S, personal communication). In our case, the patient was 63 years and 2 weeks old at the time of ET and 63 years and 9 months at the time of delivery. It is difficult to generalize from the successful obstetric outcomes of individual cases. We previously reported good outcomes in a series of women over the age of 50 (5). However, there remains a paucity of data about obstetric outcome in this age group (4), and therefore it is easy to recommend that extreme care should be exercised when managing the pregnancies in these women.

REFERENCES