

Evaluating the Efficacy of Adhesiolysis at Early Second-Look Laparoscopy for Women Undergoing Bilateral Ovarian Surgery

Yoshihito INOUE¹⁾, Masatoshi SANO²⁾, Masahiro NOZAKI³⁾
and Tatsuhiko KAWARABAYASHI¹⁾

¹⁾ *Department of Obstetrics and Gynecology, School of Medicine Fukuoka University*

²⁾ *Sano Women's Clinic*

³⁾ *Kyushu Central Hospital*

Abstract : Objective : To evaluate adhesion formation and efficacy of early second-look laparoscopic adhesiolysis in the management of adhesions and the preservation of tubal patency after ovarian conservative surgery in a prospective study. Methods : Eighteen patients underwent second-look laparoscopy between 5 and 9 days after bilateral ovarian conservative surgery (laparoscopy group). In this group, post-operative adhesion formation and the preservation of tubal patency was evaluated at second-look laparoscopy. Twenty-two patients who underwent only bilateral ovarian surgery were allocated to a control group. Hysterosalpingography was performed to evaluate the adhesion formation and the tubal patency in both groups. The degree of adhesion formation and the preservation rate of tubal patency were graded according to our simple grading method. Results : At second-look laparoscopy, 28 adnexa were adhered and only 3 adnexa were adhesion-free in laparoscopy group. Laparoscopic adhesiolysis could free 25 adnexa from adhesion. HSG evaluated that only 5 out of 41 adnexa were free from adhesion in the control group. However, 23 out of 31 adnexa demonstrated normal HSG findings, thus suggesting no adhesion formation ($p < 0.01$). HSG also demonstrated that tubal patency was significantly better preserved in laparoscopy group than in control group (96.8% vs. 70.7% ; $p < 0.01$). Conclusions : These results suggest that early second-look laparoscopy is efficacious in preventing adhesion re-formation and tubal obstruction after bilateral ovarian conservative surgery.

Key words : Ovarian conservative surgery, Adhesion, Second-look laparoscopy, Laparoscopic adhesiolysis, Tubal obstruction