Objective: To evaluate the effectiveness of hysteroscopic metroplasty under laparoscopic control in infertile women or with recurrent abortions, and the reproductive outcome. Study: Forty-nine patients who underwent hysteroscopic metroplasty for uterine septum between February 2000 and March 2006 were reviewed for subsequent obstetric outcome. Forty-nine patients who underwent hysteroscopic metroplasty under laparoscopic guidance for uterine septum were studied; in 22 cases there was primary infertility of the couple and in 26 cases secondary infertility. A woman desired to preserve fertility. They reproductive history included: 17 women nulligravida, 24 had recurrent abortions in the first trimester, 4 preterm deliveries and 4 term deliveries. We found 5 cases of endometriosis, 7 cases of tubal disease and 11 cases of male factor. During the surgery occurred one case of uterine perforation and 4 cases needed new intervention for residual septum. After metroplasty 46 women tried to achieve pregnancy; 25 spontaneous pregnancies occurred and 18 women were proposed for reproduction assisted techniques, those 4 conceived. The obstetric outcome was: 13 term deliveries, 4 preterm deliveries, 5 abortions, 3 interrupted pregnancies for fetal malformations, 1 hydatidiform mole and 3 ongoing pregnancies. Conclusions: Hysteroscopic metroplasty under laparoscopic guidance is a safe and efficient procedure, decrease abortion rates in those with recurrent abortions while the chances of conception for the assisted reproduction techniques seem to be similar to the general infertile population.