Objective: The objective was to discuss a case of heterotopic cornual and tubal pregnancy managed with transvaginal embryo reduction. Methods: A 30-year-old woman was twin pregnancy with left cornual and tubal pregnancy. Heterotopic cornual pregnancy was treated with ultrasonographically guided transvaginal injection of potassium chloride into the thorax of ectopic fetus. Tubal pregnancy was treated with laparoscopic left salpinectomy. Result: The women was discharged on the 6th postoperative day, they underwent an elective cesarean delivery at 37 weeks of pregnancy. They was delivered of healthy babies, one weighting 2500g and the other 2000g. Conclusion: This minimally invasive approach in a hemodynamically stable patient can be considered in the management of a first trimester heterotopic cornual pregnancy. Nevertheless this approach can be a treatment option in cornual pregnancies without a simultaneous intrauterine gestation. Keywords: Heterotopic cornual pregnancy Ultrasonographically guided selective embryo reduction Assisted reproductive technology