A 37-year-old woman, gravida 2 para 1, was admitted for abdominal pain at 11 weeks of gestation. Transvaginal ultrasound revealed a gestational sac located at the right cornual area and an empty endometrium. Human chorionic gonadotropin was 11,282 mIU/ml. The diagnosis was right interstitial pregnancy. The surgical plan was laparoscopic cornual resection.

Intraoperatively, a bulging vascular mass was found at the right cornual area, lateral to the insertion of the right round ligament, measuring 5 cm × 4 cm × 4 cm [Figure 1]. A 2-0 barbed suture was then passed deep into the myometrium around the base of the interstitial mass in a purse-string manner. The suture was pulled to tighten around the lesion and was not cut to allow the application of more tension as required to achieve hemostasis [Figure 2]. Cornual resection began with a single linear incision cornuotomy using laparoscopic scissors [Figure 3]. After removal of the products of conception, the myometrium was then excised at the base in an elliptical fashion right above the hemostatic suture using advanced bipolar. The uterine defect was repaired by a single layer of continuous full-thickness sutures using a 2-0 barbed suture [Figure 4]. Right salpingectomy was performed. The products of conception, overlying myometrium and fallopian tube were placed inside an improvised specimen bag and extracted through the 10-mm umbilical port. No injection of vasopressin was given at any time of the operation. Intra-operative blood loss was 82 ml; operative time was 49 min. The patient was discharged improved, with a marked decrease in human chorionic gonadotropin (BHCG) levels.

Interstitial pregnancy is an ectopic pregnancy wherein the gestational sac is implanted at the interstitial portion of the tubal segment that traverses the muscular wall of the uterus.[1-4] These occur in approximately 2% of ectopic pregnancies but are associated with a high rate of morbidity due to the proximity of the gestational sac to the intramyometrial arcuate vasculature. Interstitial pregnancies rupture at an advanced gestation due to the distensibility of the surrounding myometrium, often leading to catastrophic hemorrhage.[5] Hence, timely diagnosis and management are vital to prevent maternal morbidity or mortality and to maintain fertility.[1]

Conventionally, conservative surgical management of interstitial pregnancy would entail cornual wedge resection.
through laparotomy. However, laparoscopy can be done as a less invasive and less traumatic surgical option. Among the emerging laparoscopic approaches is the purse-string technique, where a hemostatic suture is passed at the base of the interstitial mass and drawn tight to close the lesion off before resection. The need for vasopressin is obviated, thus preventing its potentially harmful effects.

Removal of the ectopic mass can be performed either by cornual resection or cornuotomy, both of which have comparable complication rates and incidence of persistent ectopic pregnancy. For cases where implantation is deep in the myometrium or when the size of the lesion is relatively large (>4 cm). For this case, the surgeons removed the ectopic gestation first by performing a linear cornuostomy, decompressing the mass. After which, they proceeded with excision of the surrounding suspicious myometrium, based on its color and texture. This approach avoids creating a deep circumferential incision that can cause bleeding and obscure the surgical field. In addition, this prevents the excessive removal of myometrium, which may increase the risk for uterine rupture due to the loss of tissue and extensive uterine scarring. A continuous full-thickness repair decreases the risk of uterine rupture in subsequent pregnancies.

Ethical statement
University of the Philippines Manila Research Ethics Board exempted ethical review (UPMREB No. 2020-389-EX) on June 19, 2020. UPM REB has waived informed consent.

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Conflicts of interest
There are no conflicts of interest.

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