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Laparoscopic Management of Unruptured Cornual Ectopic Pregnancy

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Abstract

Cornual ectopic pregnancy is a uncommon type of ectopic pregnancy located at the interstitial part of fallopian tube. It accounts for 2%-4% of all ectopic pregnancies. Cornual pregnancies are rare with a mortality rate significantly higher than that of other ectopic pregnancy types. Due to the cornual region's location in the fallopian tube rupture of cornual gestation may lead to massive intraperitoneal bleeding leading to hypovolemia and shock.¹

A case of unruptured cornual ectopic pregnancy in 27 years female Gravida 2 para 1 managed successfully laparoscopically.²

Background

Cornual pregnancy is uncommon variety of ectopic pregnancy located at interstitial parent of fallopian tube. It often pose therapeutic and diagnostic challenge to the obstetrician. Despite of availability of modern diagnostic techniques there is difficulty in it's early diagnosis because of it's location. It is seem in 1/2500-1/5000 of all the pregnancies and 2%-4% of all ectopic pregnancies.²

Here is a case of unruptured cornual ectopic pregnancy in 27 years female ,Gravida 2,para 1 managed successfully laparoscopically.²

Case Report

A 27 years old female, gravida 2, para 1 presented to our outpatient department at IPGMER & SSKM HOSPITAL Kolkata, West Bengal, with no complaints and with an estimated gestational age of 6 weeks according to her last menstrual period, she had a previous history of submucosal myoma 3 years back for which she underwent laparoscopic myomectomy.

Her beta hcg level has been 95,000 mIU/ml. However ultrasonography done showed no intrauterine pregnancy or other ectopic pregregnancy.

However beta hcg was repeated a day after which showed 120,768 mIU/ml.

Diagnostic laparoscopy was performed on the next day to rule out cornual pregnancy if any, at laparoscopy we found 5 cm mass in the right uterine Cornua (Fig1.).

The other pelvic organs were significantly normal.

An incision was made in the right cornua using monopolar scissors and the gestation was expressed through this incision (Fig2&3).



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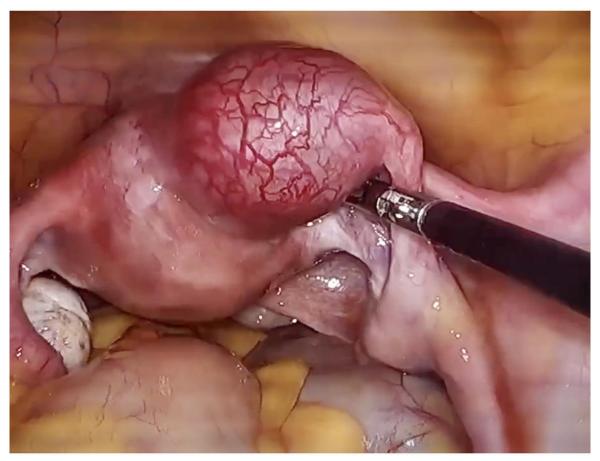


Fig 1 Right cornual unruptured ectopic pregnancy



Fig 2. Incision in the right uterine cornua.



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Fig 3. Expression of gestation sac.

The sample was sent for histopathological examination which showed the presence of evolutionary pregnancy of 6-7 weeks

In postoperative period her beta hcg was repeated after 2 days which showed level of 5467 mIU/l.

The patient was discharged on day 5 and was reviewed in outpatient department with new beta hcg report which was 60 mI/UL.

Discussion

Many cases of laparoscopic cornual resection have been reported in literature, but a specific surgical methodology has not yet been established.³

Although that patients who are unstable and are critically(hypotension, severe abdominal bleeding) are likely undergo emergency laparotomy.

But now in recent advances laparoscopic management of ectopic pregnancy is considered to be the gold standard.⁴

Conclusion

Cornual ectopic pregnancies are uncommon, difficult to diagnose and a surgical challenge. Laparoscopic treatment of cornual pregnancy of Cornual pregnancy can be safely carried out with good results in an institution with trained laparascopists and adequate facility.⁵

However this technique is particularly invaluable in difficult cases where the Cornual ectopic pregnancy is poorly demarcated, highly vascular, but because of its overall safety and cost effective adjunct it's often used as a gold standard for the management of ectopic pregnancy.⁶



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