Management of caesarean scar ectopic pregnancy: a case report

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Received: 07 April 2020
Accepted: 29 April 2020

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ABSTRACT

Caesarean scar ectopic involves an abnormal implantation of the embryo within the myometrium of previous caesarean scar. It is a rare and serious entity involving maternal complication like abnormal placentation, hemorrhage or death due to uterine rupture. Authors present a case report of 32 years old female diagnosed as a case of caesarean scar ectopic pregnancy on TVS and MRI and managed conservatively by USG guided D and C.

Keywords: Caesarean scar ectopic, Magnetic resonance imaging, Transvaginal sonography, Uterine rupture

INTRODUCTION

Caesarean scar ectopic pregnancy (CSP) rarest of all ectopic pregnancies occurs when a pregnancy implants on a previous caesarean scar. Incidence estimated in overall caesarean delivery is 1/1800 to 1/2500.1 With increase in number of caesarean deliveries the incidence of caesarean scar ectopic has increased. Early diagnosis can be done by using sonography which is important because a delay can lead to increased maternal morbidity and mortality. The genesis of CSP involves implantation into the myometrium through a microscopic tract or a dehiscence in the previous uterine scar.2 Management option includes dilatation and curettage, laparotomy or laparoscopy for excision of trophoblastic tissue, local and/or systemic administration of methotrexate, B/L hypogastric artery ligation with trophoblastic evacuation and selective uterine artery embolization combined with curettage and/or methotrexate administration.3-7 In this case report authors present a case of viable caesarean scar pregnancy managed by USG guided D and C.

CASE REPORT

A 32-year-old female presented to us in the OPD with history of 2 months amenorrhea with complaint of spotting p/v on and off with occasional abdominal pain since 5 days. Her obstetric history revealed G3P2L2 with previous 2 caesarean deliveries. Her first caesarean was in view of fetal distress and 2nd for PROM with scar tenderness.

Her general physical examination was normal. On per speculum examination minimal bleeding was present. On bimanual examination uterus was 6 weeks size, antverted with bilateral fornices free and no tenderness. Routine blood investigations were normal. On admission beta Hcg levels were 57524.84 IU/L. TVS revealed single live pregnancy CRL 0.74 cm (6 weeks + 4 days) with cardiac activity seen in lower uterine segment at the level of previous caesarean scar in anterior wall with marked thinning of overlying myometrium. Uterine fundus and cervical canal were normal in appearance. No adnexal abnormality was identified (Figure 1). MRI was done to confirm the diagnosis. It reported a G sac bulging through myometrium of lower uterine segment at the level of previous caesarean scar in anterior wall with marked thinning of overlying myometrium. Uterine fundus and cervical canal were normal in appearance. No adnexal abnormality was identified (Figure 1). MRI was done to confirm the diagnosis. It reported a G sac bulging through myometrium of lower uterine segment at the level of previous caesarean scar. The anterior myometrium was thinned out with no bladder wall invasion. The posterior aspect of G sac extended into the endometrial cavity of lower uterine segment with no thinning of posterior myometrium.

Diagnosis of caesarean scar ectopic pregnancy was made. Decision of suction curettage under transabdominal USG guidance was taken. G sac was removed completely and
follow up values of beta hcg on day 2, 7, 14, 21 were 14, 733, 3248, 280, <6IU/L respectively.

According to a recent review, following findings raise the suspicion level of this clinical entity

- Absence of fetal parts in the uterine cavity or cervical canal
- Development of the gestational sac in the anterior uterine wall at the isthmus (presumed site of the previous lower segment caesarean section scar)
- A thin myometrial layer between the bladder and gestational sac
- Triangular-shaped gestational sac
- Gestational sac that is close to the bladder and uterine wall
- Evidence of functional trophoblastic circulation on doppler examination, defined by the presence of an area of increased peri trophoblastic vascularity on colour doppler examination; or presentation of arteriovenous malformation in the area.

MRI further provides crucial information where accurate diagnosis by USG is difficult. In this case patient TVS was suggestive of 6 weeks 4 days sac in the lower uterine segment at the level of previous caesarean scar in anterior wall with marked thinning of overlying myometrium. MRI was done to confirm the diagnosis. A number of management options are available which include D and C, systemic methotrexate, local injection of methotrexate, uterine artery embolization, laparoscopic or hysteroscopic resection. This case was managed by USG guided D and C followed by serial evaluation of serum beta hcg on day 2, 7, 14 and 21.

Funding: No funding sources  
Conflict of interest: None declared  
Ethical approval: Not required

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