A case series of caesarean myomectomy

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INTRODUCTION

Uterine fibroids are benign, monoclonal tumors of smooth muscle cells of the myometrium. Most fibroids do not increase in size during pregnancy and are not always removed when encountered during cesarean section. Objective was to see the outcome of patients undergoing cesarean myomectomy. The study design was observational study. All patients undergoing cesarean section with uterine fibroid of size more than 5 cm. In carefully selected patients and with use of intraoperative vasopressin, myomectomy may be safely accomplished at the time of caesarean section by experienced surgeons. cesarean myomectomy is safe and successful if patient selection is done carefully and does not add to any additional post-operative morbidity.

Keywords: Uterine fibroid, Caesarean section, Myomectomy

CASE SERIES

Case 1

A 23-year-old primi patient with 37 weeks 3 days pregnancy, known case of hypothyroidism presented with...
amenorrhea for 9 months. On physical examination she had a term size uterus and the ultrasound abdomen showed an anterior wall intramural myoma of 13x11 cm dimensions.

She did not have any symptoms related to the myoma such as abnormal uterine bleeding or pain, before or during pregnancy. Her hemoglobin before and after operation was 10.7 g% and 8.7 g% respectively.

A caesarean myomectomy was planned, and carried out under general anesthesia with delivery of a live female baby followed by removal of myoma. Per operatively, a 25x25 cm myoma was seen in the anterior wall of uterus (Figure 1 A and B). The histological examination confirmed the diagnosis of myoma.

The patient was discharged 5 days after surgery and the time of discharge, involution of uterus was normal and no post-partum morbidity was faced.

Figure 1 (A and B): A large intramural myoma (25x25 cm) on the anterior wall of uterus seen during caesarean section.

Case 2

A 30-years old primigravida presented with 9 months amenorrhea with central placenta previa with bleeding per vaginum for one day. On examination her vitals were stable with a uterus of term size. On local examination active bleeding was present per vaginally. Her second trimester ultrasound revealed an oval intramural myoma of 9.1x6.9x7.6 cm in the anterior wall of uterus in fundal region.

The patient was taken up for double setup examination followed by caesarean section with delivery of a live male baby and removal of myoma. The inner endometrial layer was not breached. Per op, central placenta previa was present. After removal of placenta and membranes, a large intramural fibroid of approx. 10x9 cm, was noted in the antero-fundal area (Figure 2).

The patient was discharged 3 days after surgery with no post-partum morbidity

Case 3

A 27 years old gravida 4 with previous three abortions with hypothyroidism with gestational diabetes mellitus with gestational hypertension presented with 9 months amenorrhea. On examination she had a term-sized uterus with stable vitals. Her blood pressure was controlled on oral antihypertensive.

She was taken up for caesarean section in view of non-progress of labour with delivery of a live male baby. Following complete removal of placenta and membranes, a sub serosal fibroid of 8x4 cm was noted at the left angle of uterus, which was removed successfully. There were no per-operative or postoperative complications and the patient was discharged 3 days after surgery.

Case 4

A 32 years gravida 2 with 1 live issue presented with amenorrhea 9 months with labour pains. On examination her uterus was term size with an ultrasound revealing a sub serosal fibroid of 23x20x25 cm in the posterior wall of uterus.

Caesarean section was done in view of non-progress of labour with fetal distress followed by removal of myoma under continuous oxytocin infusion. Per operative a large posterior wall intramural myoma was seen measuring around 30x24 cm with a weight of approximately 3 kg, a small 2x3 cm fibroid was seen on fundo anterior region of uterus. Bilateral broad ligaments, tubes and ovaries appeared normal. Tissue was sent for histopathology, which later confirmed the diagnosis of myoma. Patient was discharged on day 5 of surgery with no post op complications on follow up.

Case 5

A total 35 years old primigravida with gestational hypertension presented with 10 months amenorrhea. On examination her uterus was term size with a blood pressure of 142/86 mmHg controlled on oral medications. Her first trimester ultrasound revealed a sub serosal fibroid of 4x6 cm in the posterior wall of uterus.

Patient was taken up for caesarean section in view if fetal distress followed by myomectomy. Per operative, a subserosal myoma of 9x5 cm was noted on right side of
posterior uterine wall. Tissue was sent for histopathology, which later confirmed the diagnosis of myoma. Patient was discharged on day 4 of surgery without any significant post op complications.

**Case 6**

A 25 years old gravida 2 with previous abortion presented with amenorrhea 9 months. On examination she had stable vitals with a uterus of term size. She had a third trimester ultrasound revealing a fibroid of size 7x5cm in the lower anterior wall of uterus. A caesarean section was carried out in view of fetal distress. With delivery of a live male baby. Following complete removal of placenta and membranes, an intramural fibroid of approximate size 6x5 cm was noted in the anterior uterine wall just 2 cm away from incision site (Figure 2 and 3). Myomectomy was performed and complete hemostasis was achieved. Histopathology later confirmed the diagnosis of myoma and the patient was discharged satisfactorily on day 3 of surgery without any significant intra op and post op complications.

**DISCUSSION**

Myomectomy during caesarean section has been discouraged by many surgeons due to fear of increased blood loss and post-operative morbidity and it is still a subject of debate whether to perform myomectomy during caesarean or not. In these cases we have showed that myomectomy during cesarean section may not be as dangerous as it has been thought to be there has not been any significant increase in risk of hemorrhage, post-operative complications or prolonged hospital stay.1-3

Though intramural myomectomy should always be done with utmost caution and is advised to be avoided, in our cases with intramural fibroids or fibroids more than 5 cm in diameter,4-10 there was no significant difference in the intra operative and the post-operative outcome when compared to those with smaller fibroids or sub serosal or pedunculated myomas. In patients with sub serosal or pedunculated fibroids especially in the lower uterine segment removal of myoma was safe and comparatively easier to perform. With large myomas in lower segment of uterus, myomectomy may be necessary and there is no absolute contraindication to removal of such myoma. Whereas small and single fibroids, if asymptomatic, need not be always removed. With adequate experience and skills in cesarean myomectomy, use of vasopressin per operatively and higher dose oxytocin infusion, severe hemorrhage, which is the most dreaded complication, can be controlled to a large extent.16

**CONCLUSION**

It appears to be safe to perform myomectomy during cesarean section if surgeon is experienced and the size and location of myoma is considered. It’s better to remove large myomas in lower segment of uterus as they can lead to post-partum hemorrhage and sepsis but for small myomas in the fundal region, myomectomy may not always be indicated.

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**REFERENCES**
