Successful Myomectomy with Pregnancy

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Abstract:

The prevalence of Leiomyomas with pregnancy is reported as 0.3-2.9%\(^1\). They usually remain asymptomatic during pregnancy, if they are small. In symptomatic one, management is generally expectant and surgical removal is particularly delayed until after delivery. Symptomatic myoma, which does not respond to conservative management need antenatal myomectomy. Second trimester is preferable for its better outcome\(^8\),\(^1\). We present a case of symptomatic multiple uterine fibroids which include a huge one, diagnosed during pregnancy clinically & ultrasonography

confirmed it. The casewas managed successfully by antenatal myomectomy due to failure of conservative management. Totalweight of fibroids was 1500gms. The pregnancy progressed to term uneventfully & elective caesarian section was done on 28/04/2019 for transverse lie. A healthy female baby weighing 03Kg was delivered. The patient was discharged in good condition on 05/05/2019.

Key Notes: Fibromyoma, myomectomy, red degeneration, abruptio placentae, premature rupture of membrane, pretermlabour, obstructed labour.

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Introduction:

The leiomyoma or myoma, also known as fibroid is the commonest of all pelvic tumors, being present in 40%-60% in the reproductive age group & half of these women will be symptomatic in their life time². The etiology still remains unclear. The hypothesis is that; origin is monoclonal-simulating the parent cell³.It is composed essentially of muscle tissue with a variable amounts of fibrous connective tissue. Number of leiomyomas vary from 01-200and are frequently multiple. They are hard in consistency except by degeneration when they become firm to consistency. they aresurrounded bypseudocapsule which consists of compressed normal uterine wall. Their cut surface show whorled and white appearance4. Leiomyomas have been reported as a sole cause in about2.4% cases of subfertility⁵. Many women with myomas succeed in becoming pregnant. Pain is the most common symptom of fibroids, in second and third trimester of pregnancy, if they are large. This process is called "red degeneration". Abortion, Preterm delivery, abruptio placentae, premature rupture of membrane, obstructed labour are other complications of fibroids with pregnancy. To avoid such complications, we sometimes attempt myomectomy with pregnancy in selected patients.

Case Presentation: Mrs. X, 26 years old primigravida presented with abdominal swelling, amenorrhoea for 10 weeks, severe lower abdominal pain & incomplete voiding of urine for one week. She is married for four years & has one and half a year history of primary subfertility. Two years back she was diagnosed as a case of multiple uterine fibroidsconfirmedby ultrasonography& underwent myomectomy. patient looked flushed & had very much discomfort, difficulties in respiration. She was normotensive & had mild pyrexia, respiratory rate was 24 breaths/min. Her abdomen was grossly distended, measured about 30 cm from the symphysis pubis, firm in consistency, irregular surface on palpation. Sonographic examination showed an intrauterine alive fetus about 11 weeks' gestation, a huge myoma of about 18cmx17cm size, also showed different sizes of myomas all over the surface of the uterus. She was managed conservatively but after three weeks of conservative management, she got admitted into GonosasthavaSamajVittik Medical college& Hospital with intractable pain & retention of urine.

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Her all routine investigations including serum electrolytes & creatinine were within normal limits. Her blood group was B (+ve), Hb% was 10.6gm/dl. Myomectomy was done at 14 weeks of gestation.

Preoperative counselling was given to both the patient & her party about the operation & an informed written consent was taken for the risk of operation also.



Foetus at 14 weeks before myomectomy

Operation was done under spinal anesthesia. Abdomen was opened through midline subumbilical incision removing the previous scar. Four medium sized myomas measuring about 5cmx6cm were removed from lower part of anterior uterine wall. The larger one,(18cmx17cm) in size was at the upper part of anterior uterine wall, intramural in nature & was removed by gentle enucleation; the base was closed by catgut '0' (ethicon). Precaution was maintained not to disturb the gestational sac. She lost near about 01 liters of blood & received 03 units of whole human blood per- operatively. The weight of the larger fibroid was about 1000 gm & the total weight of the rest four fibroidswas about 500gm. Section from the grossly enucleated fibroid was histologically confirmed as leiomyoma with necrobiosis.Her post-operative period was uneventful. She received injection Hydroxy Progesterone Caproate intramuscularly(250mg) two ampoules every third

day for one month & tablet allylestrenol(5mg) per oral three times daily up to 28 weeks with her regular tonics. Tab. Paracetamol (500mg) per oral two or three times daily if necessary for pain were prescribed. Her operation area looked healthy. Stitches were removed on 10th post-operative day.Hb% was 10.8gm/dl on 07th post-operative day. Repeat ultrasonography on 10th post-operative day showed normally growing fetus of about 16 weeks of gestation. She was discharged on 14thpost-operative day in good condition.



After Myomectomy

Follow up:

The patient was advised to attened gynae out patient department every two weeklyupto 28th weeks, then every weekly until delivery. Each time she was asked for any complain &her vital signs including pulse, blood pressure, temperature & respiratory rate was recorded. Any sign of anaemia, jaundice&oedema were noted. Uterine fundal height was recorded in cm.Every month Hb%, routine& microscopic examination of urine; random blood sugar at 28th weeks of gestation were done. Anomally scan of

fetus was recorded at 26th weeks of gestation. Fetal movement & fetal heart beats are important signs of fetal wellbeing. At 38 weeks of gestation Transverse Lie, an abnormal presentation was detected clinically & ultrasonography confirmedit. Pregnancy was terminated by lower uterine caesarean section.



At term pregnancy with previous scar on abdomen

Her intraoperative & postnatal period was also uneventful. Blood transfusion was not required during & after operation. The Pediatrician attended & clinically examined the female baby and found no deformity in her body. The patient was discharged on 8thpost -operativeday. Subsequent check-up after 07 & 42 days of discharge was advised.

Discussion:

Surgical intervention was done due to rapid increase in lesion size causing discomfort & severe abdominal pain, retention of urine, not responding to conservative management with bed rest, hydration, non-steroidal anti-inflammatory analgesic. tocolytic drugs medication. Myomas often enlarge during pregnancy as myoma cells contain more estrogen receptors⁶. The most common complication specially in 2nd trimester is the syndrome of painful myoma, due to red or carneous degeneration& occurs in 5-8% of myomas in pregnancy⁷. Its association with recurrent pregnancy loss is observed9. Complications in 3rd trimester rupture of membrane, labour, abnormal presentation, increase caesarean section rate. During pregnancy increased vascularity and abnormal uterine action, women are at increased risk of per-operative & post-operative bleeding with morbidity. Surgery if indicated, myomectomy can be done successfully that time¹⁰.

Risk of recurrence & persistence of fibroids in abdominal myomectomy in nongravid uterus is about 30%-50%, risk of relaparotomy is about 20% - 25%,

following myomectomy, patients should have a mandatory hospital delivery, although the chance of rupture is rare¹¹.During L.U.C.S nakedeyeexamination of uterus showed smooth surface of the uterus without any scar of previous myomectomy. Enucleated tumor with cut section showed dark areas revealing raw beef appearance often containing cystic spaces. The odor is often fishy due to fatty acids. Color is due to the presence of haemolysedred &haemoglobin. cells Microscopically, evidences of necrosis are present. Vessels are thrombosed but extravasation of blood is unlikely. Partial recovery is possible as such called "necrobiosis."

Conclusion:

Myomectomy is a riskier operation, when the fibroid(s) is too big or too many, more when cavity is open. Myomectomy in this patient provided reassurance. So surgical management with uterine leiomyoma with pregnancy may be successfully performed in carefully selected patients.

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