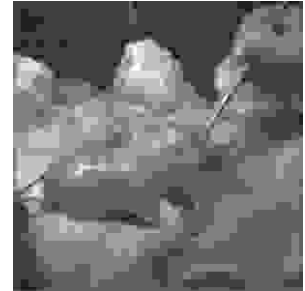


ORIGINAL

PROF-1116

MYOMECTOMY DONE DURING CAESAREAN SECTION



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ABSTRACT... Objective: To evaluate the outcome of myomectomy during caesarean section. **Study Design:** A retrospective study. **Setting:** Gynae unit I, Allied Hospital Faisalabad. **Period:** From 2001 to 2002. **Material and Methods:** A total of 40 patients attending gynae unit I of Allied Hospital having pregnancy with fibroid were included in the study. A special consent was taken from the patients for performing myomectomy. A performa was used to collect the data regarding maternal morbidity and mortality and perinatal outcome, the results were then analyzed. **Results:** It was seen in this study that in 28 patients the duration of hospital stay was 7-10 days which is not more than the stay during caesarean section. It was only in 02 patients the stay was more than 10 days. Regarding blood transfusion in 90% of the cases required only two pint of blood during operation. Regarding blood loss in 20 patients it was only 500ml. The loss was more than 1000 ml in only 04 cases. Perinatal outcome. The outcome was satisfactory and the babies weight corresponded with the gestational age.

INTRODUCTION

Uterine fibroids are also known as leiomyomas or myomas. There are the most common benign pelvic tumours in women. Fibroids develop only during a women reproductive years with a peak incidence between 30-50 years. 20% of the women harbour myomas of different sizes and 50% of the fibroids are asymptomatic¹.

Depending upon the location myomas are divided into intramural, subserous and sub mucous fibroids. Myomas are rarely associated with pregnancy. This association is most commonly seen in elderly primigravida. It is usually stated that fibroids increase in size during pregnancy and shrink during puerperium although this has not been the

finding of recent studies Aharoni et al based on serial USG. Many pregnancies associated with fibroid proceed uneventfully. There is increased risk of spontaneous abortion and pre term labour. Pregnancies with fibroid should be treated as high risk pregnancies during pregnancy fibroid often enlarge but because they also tend to become soft as a result of interstitial oedema they flatten out and become indistinct. Sub-serosal tumours on the other hand may be easily palpated as the uterus enlarges and on occasion may be mistaken for fetal parts. Surgical removal of fibroid during pregnancy is not recommended, with treatment confined to use of analgesia for pain from red degeneration. The removal of fibroids at time of caesarean had been long contraindicated although recent reports suggest

myomectomy in experienced hands is possible and safe².

Myomectomy at the time of caesarean section has been discouraged traditionally because of the risk of haemorrhages. A retrospective study was performed in USA showing that in selected patients myomectomy during caesarean section does not appear to result in an increase in the risk of intrapartum and short term post partum morbidity³. With the exception of small pedunculated fibroids, most leading obstetrics text books advise against myomectomy during caesarean delivery due to theoretical risks of intractable haemorrhages and increased post operative morbidity^{4,5}. In the medical literature, however, there are few studies which directly address this controversy. In fact, this recommendation relies entirely on a body of evidence consisting of case series and anecdotes which give conflicting results^{6,7,8,9,10,11}.

MATERIAL AND METHODS

A reproductive study was carried out in gynae unit I of Allied Hospital Faisalabad. 40 patients having pregnancy with fibroid were admitted during the period from 2001 to 2002. After admission detailed history clinical examination and routine test carried out.

The women who fulfilled the criteria were included in the study¹. Documented fibroid uterus during pregnancy by antepartum ultrasound or by intra-operative findings². Delivery by caesarean section³. No evidence of antenatal bleeding (e.g placenta previa or abruption)⁴. No other procedures at the time of caesarean section besides myomectomy (eg cystectomy). A standard proforma was prepared and duly filled for each patient and special consent taken from every patient to carry out the procedure. Only those patients were included in the study who had fibroid with pregnancy and mode of delivery were excluded from the study. During the study their morbidity and mortality was assessed. Characteristics abstracted included age, parity, gestational age at delivery type of caesarean performed, size and location of fibroid, duration of hospital stay,

incidence of post partum fever and hemorrhage. The size of fibroid was obtained from the histopathology report or if the report was not available, the surgeons findings in the operative note. Hemorrhage was defined as decrease in hematocrit of 10 points from the preoperative value to the post operative value or the need for intra-operative transfusion.

RESULTS

Age	No. Of Patients
20-30 Years	08
31-40 Years	32
80% of the patients belonged to the middle age groups.	

Mass abdomen	32
Pain abdomen	04
Difficulty in micturition	01
Decreased fetal movements	01
80% of the patients presented with mass abdomen.	

Parity of the Patients	No. Of Patients
Primigravida	25
Multigravida	15

Presentation of Fetus	No. Of Patients
Transverse lie	28
Longitudinal lie	12

Majority of the patients delivered fetus of weight corresponding to their gestational age.

Table. V	
No of Fetus	No of Cases
Singleton Fetus	38
Multiple pregnancy (Twin)	02

Table. VI	
Location of Fibroid	No of Cases
Cervical Fibroid in delivery of given	01 (this case has difficulty baby so classical incision was)
Fibroid in broad ligament	02
Fibroid on anterior wall	15
Fibroid on posterior wall	18
Multiple fibroid	03
Subserosal Fibroid	01

Table. VII	
Size of Fibroid	No of Cases
< 10 cm	16
> 10 cm	24

Table. VIII	
Duration of Hospital Stay	No of Cases
< 7 days	10
7-10 days	28
> 10 days	02

Table. IX	
No of Pints of Blood Required	No of Cases
1-2 Pints	36
3-4 Pints	04
<i>90% of patients required only 02 pints of blood.</i>	

Table. X	
Blood Loss During Myomectomy	No of Cases
Up till 500 ml	20
500-1000 ml	16
> 1000 ml	04
<i>only 10% of patients had blood loss > 1000 ml.</i>	

Fetal Outcome	
Weight of Baby	No of Cases
< 1 kg	02
1.1kg - 3 kg	34
3.1 kg - 4 kg	03
> 4 kg	01

DISCUSSION

The major problem associated with myomectomy is heavy and loss. It is therefore most important decision to perform myomectomy is carefully considered. Myomectomy during caesarean section is not always hazardous procedure and can be performed without complication by experienced obstretician¹². If the intra-operative blood loss is heavy then the surgeon may have to resort to hysterectomy. Non of our patients required hysterectomy.

The management of fibroid encountered during caesarean delivery poses a therapeutic delimma. Myomectomy during caesarean has traditionally been discouraged. In fact many surgeons perform classical caesarean instead of a low transverse caesarean as a means to avoid lower uterine segment myomas, a procedure which carries a risk of increased blood loss in and of it self. The largest series to date to evaluate this debate, a study was carried in USA to allay some of the fears of increased short term morbidity with caesarean myomectomy, in this study it was demonstrated that myomectomy during caesarean delivery does not

increase the risk of hemorrhage, post operative fever or prolong hospital stay.

These studies indicate that in selected patients and in experienced hands myomectomy during caesarean delivery can be safe procedure³. But in which patients? Clearly large fundal fibroids intuitively should be avoided. Although no statistically significant difference was found between the patients who under went intramural myomectomy or myomectomy of fibroid > .6cm in size and the control group, this lack of difference may be attributed to a small sample size and therefore insufficient power to detect such a difference. Thus intramural myomectomy should be performed with caution. But in setting of symptomatic patient with an accessible subserosal fibroid and pedunculated fibroid or the patients with fibroid obstructing lower uterine segment the study carried out in USA indicated that this procedure can be safely carried out, several recent studies have described techniques which minimize blood loss at caesarean myomectomy, including uterine toniquet^{11,13}, bilateral uterine artery ligation¹³, and electrocautery¹⁴. There was also no increase in incidence of post operative fever, duration of hospital stay. No patient required hysterectomy.

Uterine involution was normal and there was significant complications during puerperium. There was no significant difference in intra operative and post operative morbidity and blood loss in performing caesarean section alone and caesarean section with myomectomy when torniquet is applied¹⁵.

COMMENTS

The message from the study is clear; what once was thought to be done taboo should be considered. Myomectomy during caesarean delivery can be safely effective procedure in safe hands. The main principles of myomectomy during pregnancy are;

1. It should be done by an experience person.
2. It should be done with full consent of the patient. It is however important that baby must be delivered prior to attempting myomectomy.

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