

A Study of Primary Cesarean Section in Multipara

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Abstract: Background: Cesarean delivery is one of the most commonly performed operations today. Primary Cesarean section in multipara means first caesarean section done in the patients who had delivered vaginally once or more. Various indications for caesarean section were studied in relation to age, gravidity and maternal, fetal outcome were analyzed. Methods: It was a prospective randomized hospital based study of primary Cesarean section performed in multiparous patient attending tertiary care hospital during August 2015 to August 2016, selected through convenient sampling. Detailed history and thorough examination of the patient was done. Labor was monitored throughout and indications for Cesarean section were noted. Intraoperative details, maternal and fetal outcome were recorded. Result: Out of 1254 caesarean deliveries, 216 primary caesareans in parous women were done. The most common age group was 21-30 years. Most parous women who underwent primary caesarean section, were para 2. In parous women undergoing primary caesarean section, the number of spontaneous onset of labor was significantly more than those undergoing induction of labor. The most common indication for caesarean section in this group of patients was fetal distress. There was no neonatal mortality or adverse maternal outcome. Conclusions: Fetal distress was the most common indication for primary caesarean section in the parous woman, although malpresentation also contributed significant numbers. Primary caesarean sections in women with previous vaginal deliveries, were not associated with any significant neonatal or maternal complications. [Preeti B NJIRM 2017; 8(2):161-163]

Keywords: Primary caesarean section, Multipara, Fetal distress

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Introduction: Cesarean delivery defines the birth of a fetus via laparotomy and then hysterotomy.

There are two general types of caesarean delivery- primary refers to a first time hysterotomy and secondary denotes a uterus with one or more prior hysterotomy incisions.

There is a trend of worldwide increase in Cesarean section rates. With increased safety following introduction of modern anesthesia, blood transfusion facilities and higher antibiotics, the indications for Cesarean section are liberalized to include dystocia, placenta previa, fetal distress, BOH and others. Cesarean section is considered as a safer alternative to prolonged and difficult vaginal operative delivery to reduce maternal and perinatal morbidity and mortality.

Delivery by caesarean section is most frequently performed in nulliparous for dystocia with suspected cephalopelvic disproportion.

Multipara means those who had delivered once or more after the age of viability. It includes primipara, multipara (para 2,3,4) and grand multipara (para more than 4). Even though they have delivered once vaginally, they still may have cephalopelvic disproportion in view of pendulous abdomen with

lordosis of the lumbar spine responsible for failure of the head to engage. Other obstetric complication like APH, malpresentations, obstructed labour were more common in multigravida which must be seriously considered.

The World Health Organization recommends that the Cesarean section rate should not be higher than 10% to 15%.

Aims and Objectives

- 1) To study the incidence of primary caesarean section in multipara and analysis of various related factors.
- 2) To know the maternal and perinatal outcome following caesarean section.
- 3) To know the Incidence of post-operative morbidity.

Inclusion criteria: 1) Multipara 2) Pregnancy > 37 weeks 3) Multiple pregnancy

Exclusion criteria: 1) Gestational age < 37 weeks 2) Previous LSCS

Methods:

- It was a prospective randomized study.
- Attending tertiary care hospital during August 2015 to August 2016.
- Selected through convenient sampling.

- Detailed obstetric history of the patients was taken at admission regarding present pregnancy and previous pregnancies and thorough examination of the patient was done.
- Per abdominal examination was done to assess the period of gestation, presentation, position, and estimated weight of the baby. Per vaginal examination was done to calculate Bishop Score, assess the adequacy of the pelvis and to see the presence or absence of membranes.
- Basic investigations were done for each case.
- Ultrasonography was done to rule out congenital anomalies, estimation of gestational age and localization of placenta.
- Decision for mode of delivery was made based on evaluation of progress of labour, fetal indications and maternal indications.
- Labor was monitored throughout.
- Decision for caesarean section was based on clinical evaluation and progress of labour.
- Intraoperative details, maternal and fetal outcome were recorded.

Results: During the study period, there were 1254 total cesarean section performed among them 216 were done in primary cesarean section in multipara resulting in incidence of 17.2%.

1: Total LSCS incidence in 1 year

	Total deliveries	LSCS	Primary CS in multipara
No of Cases	4132	1254	216
Percentage	100%	30%	5.2%

About 216 cases of primary caesarean section done in multipara during a period of 1 year were analyzed. Among 4132 deliveries, 30% was the incidence of LSCS in general, and 5.2% was incidence of primary caesarean section in multipara.

2: Booking status

Cases	Booked	Unbooked	Elective	Emergency
216	58	158	66	150
100%	26.85%	73.14%	30.5%	69.4%

Majority of the cases were Unbooked (73.14%) and referred as emergency cases (69.4%).

3: Gravida Distribution

Total Cases	G2	G3	G4	G5
216	119	57	28	12
100%	55%	26.38%	13%	5.5%

Most of them were gravida-2 (55%) and gravida-3 (26.38%).

4: Age distribution (in years)

Total	<20	21-25	26-30	31-35	36-40
216	38	110	47	11	10
100%	17.5%	50.92%	21.7%	5.0%	4.6%

Most of them were in the age group of 21-25 years (50.92%).

5: Indications for primary caesarean section in multipara

Indications	No of Cases	Percentage
Fetal Distress	54	25%
Antepartum Hemorrhage	33	15.2%
Pre-Eclampsia	26	12.0%
CPD	18	8.3%
Severe Oligohydramnios	12	5.5%
Malpresentation	30	13.8%
Obstructed Labor	12	5.5%
Induction Failure	4	1.8%
Cord Prolapse	2	0.9%
NPOL	5	2.3%
Prolonged Prom	8	3.7%
Medical Disorders	2	0.9%
IUGR	10	4.6%

Indication of 25% cases were fetal distress followed by antepartum hemorrhage (15.2%).

6: Incidence of various malpresentations

Type	Breech	Transverse	Twins	Compound presentation	Mento – posterior
30	14	04	04	02	6

Among various type of malpresentations, breech is the most common cause of caesarean section.

7: Various Causes of Maternal Morbidity

Causes	No. of Cases	Percentage
Wound sepsis	12	5.5%
Abdominal distension	30	13.8%
Pyrexia	12	5.5%
U.T.I.	10	4.6%
P.P.H.	17	08%
Puerperal Psychosis	02	0.9%

Wound sepsis is the most common cause of maternal morbidity.

8: Birth weight (in kilograms)

Weight	<2	2-2.5	2.5-3	>3
No. of cases	20	38	147	10

Most of the baby birth weight falls between 2.5-3 kilograms.

9: Perinatal outcome

Cases	IUD + Stillbirth	NICU Admission	APGAR>7
216	20	44	152

- Causes of IUD were abruption and obstructed labor.
- Causes of NICU admission were pre-term/low birth weight, fetal distress with meconium stained liquor, resuscitation with low APGAR, respiratory distress syndrome, GDM with hypoglycemia.

Discussion: Multiparity is a problem associated with poverty, illiteracy, ignorance, and lack of knowledge of the available antenatal care and family planning methods. A multipara who has earlier delivered vaginally may still require a caesarean section for safe delivery.

The present study deals with the evaluation of Cesarean section indications and outcome among multigravida who had a previous vaginal delivery. In the present study, maximum number of women undergoing primary Cesarean section were in the age group of 21-25 years (50.92%). This may be due to the trends of early marriage and lack of education resulting in high fertility in early ages. The most common indication for primary Cesarean section rate in multigravida in our study was fetal distress accounting for 25% of the cases it was more than that observed in Palanichamy study (9.2%) and Sikdar study (18.8%). Antepartum hemorrhage is common in multiparous women with rise in incidence above 35 years of age and with high birth order pregnancies. The incidence of APH in the present study was 15.2%, which was less than Sikdar et al (19.6%), and Jacob et al (17.30%).

The factors responsible for malpresentations were lax and pendulous abdominal wall in multigravida, imperfect uterine tone, and extreme uterine obliquity. Ultrasound examinations and doppler studies have helped the obstetrician to diagnose the early onset of IUGR. However, APH and fetal compromise which contributed to the high cesarean section rate.

Conclusion: From the above study, it is very clear that many unforeseen complications occur in women who previously had a normal vaginal delivery. Multiparity in our society is not by choice. This results in a high

birth rate and so many young women become grand multipara. This process causes short birth intervals, eventually jeopardizing the health of the mother and her offspring. This study reemphasizes the need of antenatal care and thorough care and vigilance in the management of labor. Though vaginal delivery is always safer than C-section, difficult vaginal delivery and obstructed labor carries more maternal morbidity and perinatal mortality when compared to elective C-section. Previous vaginal delivery gives the patient as well as her relatives a false sense of security. In many cases, a caesarean becomes mandatory. The fact that a multipara has had one or more vaginal deliveries should be regarded as an optimistic historical fact, not as a diagnostic criterion for spontaneous delivery of the pregnancy at hand. Ultimately, our goal should be a healthy newborn on a lap of healthy mothers.

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References:

1. Jyothi H Rao, Nirmala Rampure. "Study of Primary Cesarean Section in Multiparous Women". Journal of Evolution of Medical and Dental Sciences 2013; Vol2, Issue 24, June 17; Page: 4414-4418.
2. Desai E, Leuva H, Leuva B, Kanani M. A study of primary caesarean section in multipara. Int J Reprod Contracept Obstet Gynecol. 2013; 2(3): 320-324.
3. Palanichamy G. A study of 900 primary caesarean sections with special reference to 151 primary caesarean sections in grand multipara. J Obstet & Gynec India 1976; 26:374-379.
4. Kala Vashista, Rekha Logawney, Gupta AM. Primary caesarean section in grand multipara. J Obstet & Gynec Ind 1974; 26: 386-90. [5]. Purandare CN. The Over Roofing Rates of Caesarean Section. The Journal of Obstetrics and Gynecology of India (September– October 2011) 61(5):501–502.

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