

Obstetric Outcome of Women with One Previous Caesarean Birth



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INTRODUCTION

With the rising concern on safety of vaginal birth after Caesarean (VBAC), we have carried out an analysis involving 14 state hospitals in Malaysia to look at obstetric outcome of these women.

METHODS AND FINDINGS

This is a descriptive analysis. Data were extracted from National Obstetric Registry of Malaysia of year 2010 from 14 state hospitals. There were 6304 women with one previous Caesarean delivery, eligible for VBAC. However, only 6288 were analyzed as there was 16 missing data. 45.1% had Caesarean delivery (n=2840), 12.7% (n=803) had elective repeat Caesarean section (ERCS). Analysis showed serious infant outcome for infants born via ERCS was lower compared to vaginal birth. Women who had vaginal birth had less postpartum haemorrhage (0.5% vs 1.3%) compared to women who had ERCS. However these women who had vaginal birth had more serious genital tract trauma compared to women who had ERCS. Women who had emergency Caesarean delivery had more major haemorrhage. 2 cases of uterine rupture were reported in women who had emergency Caesarean delivery.

Table 1: Maternal Characteristics

	Elective LSCS	Emergency LSCS	Vaginal Delivery
Mean Gestation	38.29	39.10	38.94
Mean Age	31.45	30.54	30.46
Mean BMI	28.41	27.63	26.05

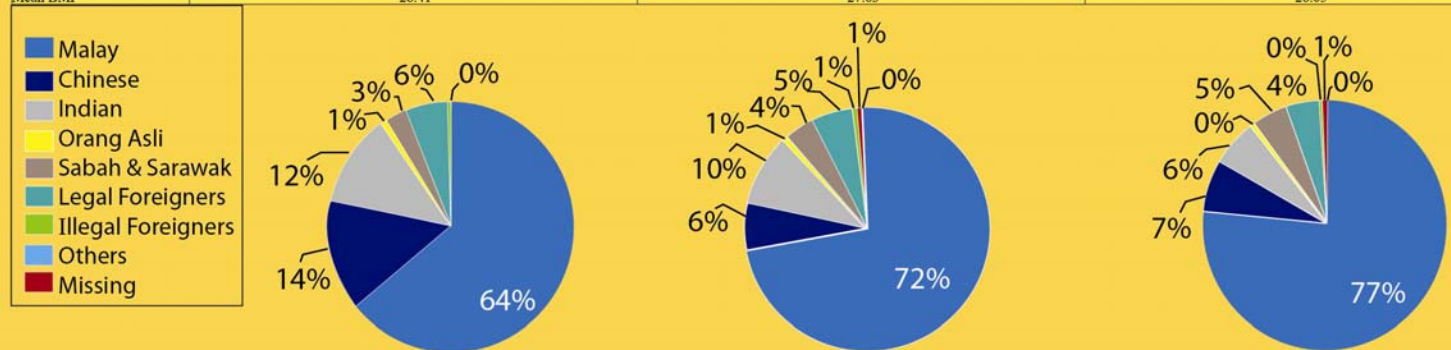


Table 2: Maternal outcome

Type of delivery	Elective LSCS n = 803	Emergency LSCS n = 203	Vaginal delivery n = 3448
Maternal outcome			
No complication	589	1096	2780
Hysterectomy	0	0	0
Maternal Collapse	0	0	0
Pyrexia	1	3	0
Anaesthetic complication	0	1	0
Retained placenta	0	1	13
Clinical DIVC	0	0	0
Uterine atony	1	6	4
Uterine inversion	0	0	0
Primary PPH: 1) < 1.5l blood loss	7	11	
2) ≥ 1.5l blood loss	4	10	3
Secondary PPH	0	0	1
Uterine rupture	0	2	0
Genital tract trauma:			
vaginal haematoma	0	0	3
1 st and 2 nd degree perineal tear	5	10	1217
3 rd and 4 th degree perineal tear	0	1	9
Cervical tear	0	0	4
Shock	0	0	0
Pulmonary oedema	0	0	0
Pulmonary embolism	0	0	0
DVT	0	0	0
Amniotic fluid embolism	0	0	0
Post partum depression	0	0	0

Table 3: Neonatal Outcome

Type of delivery	Elective LSCS n = 803	Emergency LSCS n = 2036	Vaginal delivery n = 3448
Neonatal outcome			
No complications	658	1673	3022
Asphyxia	32	175	118
Meconium aspiration syndrome	0	19	29
Birth injury	0	1	2
Shoulder dystocia	0	0	10
Intrauterine death	0	3	3
Others (please list out the details)	16	80	110
Admission			
Discharge to mother	645	1453	2944
NICU	42	164	103
Nursery	114	409	385
Mortuary	1	4	8
Not Available	1	6	8

CONCLUSION

Among women with one previous Caesarean section, vaginal birth was associated with a lower major haemorrhage but a higher association of serious genital tract trauma. Emergency Caesarean delivery was associated with higher major haemorrhage. Adverse perinatal outcome was lower with ERCS.

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