Maternal and Perinatal Outcome in Breech Presentation

Meena P. Jadhay, Niranjan M. Mayadeo

 $\sim 10^{-2} m_{\odot} \Delta 10^{-2} m_{\odot} \Delta 10^{-2} m_{\odot}^2$

Summary

A total of 9.39 cases of Breech Presentation were studied, over a 3 years period from April 1994 to March 1997, in a tertiary teaching hospital (attached to Seth G.S. Medical College, Mumbai, India). The antenatal intranatal and postnatal management and maternal and perinatal outcome were studied.

It was seen that caesarean section helps in significantly lowering the perinatal mortality in prinigravidal with breech presentation. It was also seen that elective caesarean section significantly lowered the perinatal mortality in VI BW infants, where good NICU facilities were available.

The review of literature shows that, over the years, there has been a frend towards liberal *energy* are are in sections for breech presentation, with a view to reduce the perinatal mortality and mortal with high risk vaginal breech deliveries.

Introduction

Breech presentation, is the most common form of malpresentation found at ferm. Despite all the sophisticated ta ilities available to the obstetrician today, morbidity and mortality of breech presentation has continued to remain 3-5 times higher than that of ophalic presentation.

breed presentation at delivery occurs in 3-4% of pregnancies (Oxorn Loote, 1986). However, prior to 28 weeks, the accidence is about 25%. As ferm approache, the incidence decreases. In most cases, the foctus, onverts to cephalic presentation by 54 viecks is off-ability tresenting by Breech are preferm (Oxorn-Loote), the

Prognosis of Breech Presentation

1. For the mother. Gendral tract facerations and facmorrhage can be caused during vagital creech

delivery, due to passage of the baby through a pet of that is too small, or in which the soft testies nave not been sufficiently dilated.

2. For the foetus: The toetal mortality associated with vaginal breech delivery, is 3 times that or delivery with cephalic presentation. Factors influencing the perimatemortality include-

- a) Prematurity
- b) Congenital anomalies
- ci Prolapse at umbilical cord
- d) Foetal asphysia
- Foetal mury

There has thus been a graduat charactin curthinking, on how best to manage a patient with bree 1 presentation, over the last decade. The clinician today is not only concerned with lowering the permatal mortality, but also in improving the quality of life, so that no infant born should suffer the hazards attributable to the mode of delivery.



Material and Methods

The present study was undertaken in Nowrosjee Wadia Materiuty Hospital, which is attached to the Seth G.S. Medical College, Mumbai, Maharashtra.

The study was done with a view to analyse the mode of delivery criteria for caesarean section, intrapartum problems encountered, and the maternal and toetal morbidity and mortality associated with breech presentation

Results, Analysis and Discussion

V total of 939 patients with breech presentation were studied lover a span of 3 years.

Out of 939 patients, 908 (96.7%) were frank breech and 31 (3.3 \odot) were other types of breech like

complete, footling and kneeling breech

The overall incidence of breech presentation wa 2.96%, 52.08% of our cases were primigravidas, and 47.92% were multigravidas.

Table I gives the obstetrical complication encountered by us.

The presence of various high risk factor antenatally, or appearing during the course of labor weigh the decision of the attending obstetrician in taxon of a caesarean section.

Table II gives the mode of delivery & Table III it relations to perinatal mortality

The corrected perinatal mortality inte, attenexcluding preterm births and congenital malformations

Table I

Obstetrical Complications Associated with Breech Presentation

Sr.	Complication	Incidence in		Total
No.	-	Primi	Multi	
1	Preterm labor	82	95	177 (15.85
2	PROM	21	20	41 (4.37)
3	IUGR	183	141	321 (31.5)
+	Congenital	11	11	22 (2.34')
	maltormations			
5	Oligolix drammios	6	5	
1	Polyhydramnios	1	1	2 21
_	Placenta Praevia	2		St + St15
5	Cord Prolapse	-1	2	

Table II

Mode of Delivery in Breech Presentation

Mode of Delivery	Incider	nce in	Total	
	Primi	Multi		
Vaginal Breech	151	217	365 (39,14%)	
Caesarean Section	336	235	571 (60.81%)	

Table III

Relation of Perinatal Mortality to Mode of Delivery

Mode of delivery		Primi		Multi	
		FSB*	NND*	ESB '	NND
Vagin d	Term	1	3)	
Breech	Preterm	10	C)	1	
Caesarean	Lerm	0	()	i	
Section	Preterm	()	2	()	١

* FSB Fresh still birth

NND Neonatal death < 7 days after birth.

98

Table IV Corrected Perinatal Mortality Rate in Breech

	Primi		Mul	ti
	Caesarean Section	Vaginal Breech	Caesarean Section	Vaginal Breech
orrected per 1000 births)	Nil	31	12.55	15.23

is shown in table IV.

The overall corrected perinatal mortality rate, from the present study was 10.89 '1000 births. The perinatal mortality rate for primigravidas delivered by caesarean section was 0 and that for primigravidas delivered vaginally was 31 '1000 births. This difference is highly significant statistically (P<0.001). For multiparas, however, the difference is not statistically significant (p=0.5)

Thus, it can be clearly seen that caesarean section helps in significantly lowering the perinatal

mortality associated with vaginal breech deliveries in primigravidas.

An overall meta-analysis of literature gives a neonatal mortality rate, which is 4 times higher after vaginal breech delivery than after caesarean section (Erk¹ σ e (996).

 11 is seen from Table V, that 33.9% of VI BW infacts (< 1500 gms) delivered vaginally suffered severe birth asphyxia (APGAR < 4) and 42.86% suffered mild birth asphyxia (APGAR 5-7), whereas only 18.18% of VLBW infacts delivered by LSCS suffered severe birth

Table V

Perinatal Outcome in relation to Birth Weights and Mode of Delivery in Breech Presentations (excluding congenital malformations)

			Perinatal mo	rbidity		
	Va	aginal Breech APGAR		Cae	sarean section APGAR	
Birth weight	< 4	5-7	8+	< 4	5-7	8+
1500 gms	33.9%	42.86%	23.2°o	18.18°o	22.73%	20.00
1500-2500 gms	1.08%	6.45%	92,400	().34° o	2.41%	47.25
2500 gms	0.65%	18.95°o	80.39°o	0.36%	14.030.	55.61

Table VI

Perinatal Mortality in Relation to Birth Weights and Mode of Delivery in Breech (excluding congenital anomalies)

Birth Weight	Vaginal Breech	Caesarean Section
~ 1500 gms	48-72°°	9.()9°a
1500-2500 gms	5-26 ⁹ 0	0.68° o
- 2500 gms	0.65%	1.08° o

Table VII

Maternal Morbidity in Breech Presentations

Sr.	Maternal Morbidity	Number of Cases	
No.			
1.	Vulval haematoma	1	
- -	3. perineal tear	2	
}	MRP	4	
ļ	Placenta praevia with obstetric hysterectomy	2	
7	Blood transfusions for excessive haem orrhage	-1	

Meena P. Jadhac et al.

is conclude (2.277) suffered mild birth asphyxia. Dus tracter a considerable decrease in perinatal cold duy in VEBW infants delivered by caesarean section compared to those delivered vaginally.

From Table VI, it is seen that the perinatal mortality in VI BW infants delivered vaginally is 48.72% which is significantly more than VI BW infants delivered by 1.8CS which is 9.09% (Pr 0.001). In normal birth cought infants (=2500 gms) or in infants between 1500-2500 gms, there is no such significant differences.

Thus, we can conclude that caesarean section helps to significantly reduce the perinatal mortality associated with vaginal breech delivery in VLBW infants 1500 gms/ and preferm infants. Maternal outcome with Breech Presentations

The maternal morbidity can be tractored to $1 e^{-t}$ maternal traumal occurring during a difference of breech delivery, or due to the increased of addition of the caesarean sections associated with breech presentation. It can be decreased by a proper selection of cases for vaginal breech delivery and by meticulous technique

References

- 1. Frkkola R. : J. Perinat. Med., 24: 553, 1996.
- Oxorn Foote: Human Labour and Birth A. Edu. 1986. Appleton-Century-Crofts Norwall Connecticut. A publishing Division of Frence Hull Inc.

|()()|