A Study of Perinatal Mortality in Head Quarters Hospital Bellary

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Summary

All the deliveries between 1 June 1997 to 31 May 1998 in labour ward of HQJH. Bellary were analysed an order to fin 1 out the permatal mortality and the factors associated with it. It was noted that there were 290 permatal death, and that the permatal mortality rate was 106.80 1000 births. I damped PJH pronit may interpretent hemorrhage, severe birth asphyxia obstructed labour and military in a consideration for most of the permatal deaths. The socio economic status, obstetric and mornite lideterm in a true discussed.

Introduction

Permatal mortality is a sensitive indicator of maternal and child health care. It is subject to regional variability. This hospital based data is not truly representative of the community as it often deals with highly selective high risk pregnant population from which they have been referred to referral centers. The present study is made to analyse the state of affairs in Head Quarters Hospital, Bellary.

Material and Methods

2718 consecutive new born delivered in the labour ward in H.Q.H, Bellary over a period of one year between (1 June 97 to 31° May '98) were analysed. The information regarding maternal age, parity, socio-economic status, antenatal registration, intrapartum care, previous obstetric history, mode of delivery, indication for operative intervention, and any entrapartum complication were noted. The birth weight, APGAR Score at 1′ & 5′, neonatal problems and mortalities were also recorded. The results were

analysed by simple statistical procedures and less of significance were applied where concessary usin, ich square method.

Results and Discussion

The data in Table I shows that of erall permutal mortality was 106.8 1000 pirths. High permutal mortality of 60-120 1000 deliverse in entire unacceptable with a compared to 10.2 10.0 11.1 most of the developed nations of the york.

Table I Perinatal outcome in H.Q.H. Bellary

Total deliveries	2715
Live Births	2 412
Still births	* * * *
Early neonatal deaths	11
Perinatal deaths	101
Perinatal Mortality rate	1068 106 5611

The data in Table II shows that the material

educational level, height, predelivery weight, parity and haemoglobin level showed inverse relationship to perinatal mortality. Maternal age of >35 yrs age was o be asociated with adverse perinatal outcome. ar observations were also made by other reported ≥s (Mehta and Jayant 1983, Bhatia et al 1984).

Table II
Determinants of Ferinatal Mortality rate (Ox. 106.8/100)

		PMR/1000 Births	P-Value
Biosocial Factors:			
L. Education of Mother	Illiterate	111.1	11 -(1 ()5
	Literate	100.2	
2 Maternal Age	< 35 yrs	105.7	[+ () () ()
	≥ 35 vrs	132.6	
3 Parity	<.4	103.2	P (105
	<u>≥</u> 4	148	
4 Weight in kgs		122.2	P 4105
	4()	108	
5. Maternal height in cms	$\geq 14()$	104.9	P -0.05
	<1.4()	106.7	
6 Hb° in gms	<8	114.3	P -(),()5
	<u>≥</u> 8	105	
Previous Obstetric History:			
1. Previous history of still bir	hs	111.6	
and neonatal deaths.			-(1)(1)-
No previous history of still		[()6,9	
births neonatal deaths.			
Antenatal Registration :			
L Booked - 3 visits		51.7	
1 DOOKECT > \ 1510-		.*1.7	() ()5
2. Unbooked - 3 visits		130.04	(, (, ,
		1.777.47	
Labour Characteristics			
1. 1ype of labour			
-Spontaneous		100.4	. () ()5
- Induced		278,0	
2. Nature of delivery			
Vaginal		92.8	
LSCS		95.6	7()()
Forceps		129.6	
3. Duration of labour			
- 12 hrs		99.8	
			7(),() >
- 12 hrs		373.3	
Neonatal Characteristics :			
Birth Weight			
2000 gms		463.1	
- 2000 - 2500 gms		94.8	(),()=
> 2500 gms		50.8	11,111

P. Value < 0.05 is significant

Higher perinatal mortality was also noted in patients with previous history of still birth and neonatal deaths in unbooked cases, induced labour, instrumental deliceries protonged labours and low birth weight but ies. These observations were also made by other reports (Bernard and Sastra Wintata 1985, Venkatesh A, 1988, Swains et al. 1993). Prematurity, severe birth asphyxia, neonatal sepsis, congenital anomalies and teeding problems were the major causes of early neonatal deaths as eyident from Table III.

Table III Tarly Neonatal Deaths:

Causes	Nos (Percentage)	
1 Prematurity	59 (60).9)	
2. Secret buth asphysia	22 (22.6)	
3 Septicaemia	10 (10.3)	
II GR	4 (4.1)	
5 Congenital anomalies	2 (2.1)	

Conclusion: Analysis of permatal deaths helps the second to assign the cardinal causes responsible to the train of events leading to permatal death. From table IV it is evident that eclampsia-PIII, APH, obstructed about and rupture uterus accounted for more than half 52.8° (of the permatal deaths which could perhaps be preventable. From table II it is seen that most of perinatal deaths in our hospital occurred amongst unbooked cases (2.2) — poor etilization of maternal and child health

care services, induced labours, prolon ad lallour and low birth weight babies. Maternat lliter ice and paints and poor nutritional status also conclude the indictional confidence that the indictional status also conclude the literatural delivery being reflection of the community serviced by the hospital, late referrals of complicated care, who had in prior antenatal care also contributed to the high PMR among hospital delivery. However, into a finite variety detection of Obstedic problems as fittingly referral to appropriate level or healthcare and immediate and effective attention to such high risk cases. The ferral centers would certainly help in reducing the permatal mortality.

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Table IV Primary causes for perinatal deaths in relation to obstetric factors.

Factors	Still birth	Early Neonatal Deaths	Perinatal deaths No. (Percentage)
I I dampsia PIH	40	30)	79 (777)
2. APH	34	7	40 (154)
2. Obstructed Labour			
rupture Uterus	21		25 (9.6)
L. Malpresentation	25	i	· (1)
5 Tetal distress	1()	1-1	24 (8.2)
s. Congenital anomalies	1-1	2	$10 = (\overline{2}, \overline{2})$
7. Multiple Pregnancy	1()	(5	10 (55)
s. Miscellaneous	2()	1()	3() (1() 4)
4. Not known including MSB	25		25 (5.6)