Lower	11	8.01	6	4	24	—	43	43	—	49	
Upper lower		—	4	—	16	—	24	24	—	28	
Lower middle			8		32		22	22		30	
Upper middle		8.24	5	17	20	—	9	9	4	14	
Upper			2		8		2	2		4	

Table III

Foetal outcome according to severity of anaemia

Outcome	Control (75)		Mild (6)		Moderate (37)		Severe (37)	
	No.	%	No.	%	No.	%	No.	%
Normal	25	34	2	33.37	15	40.5	20	17.54
Preterm	—	36	4	66.6	22	59.54	67	82.4
Still Birth	49	—	—	—	4	10.8	11	10.53
Foetal Inf-ferm	28	—	—	—	16	—	4	—
Low birth weight	14	6	20	—	17	45.9	49	35.9

in anaemic mothers had spacing of less than two years between subsequent deliveries. The incidence of still-birth was higher (25.05%) in less than 30 weeks gestational age compared to 32-37 weeks (15.2%) and 38-40 weeks (7.4%). The anaemic mothers delivering early in gestation had lower mean haemoglobin level than those delivering later.

DISCUSSION

In the present study higher percentage of cases were anaemic, indicating poor antenatal care and higher percentage of cases belonged to lower and upper lower socioeconomic group. Abnormal foetal outcome increased from upper to lower socioeconomic group and from mild to severe grade of anaemia. These observations were in agreement with number of studies which found association of poor foetal outcome with dietary inadequacies, and low socioeconomic status (WHO, 1985; ICMR, 1977; Kamra, 1975 and Raman, 1958). Parity did not seem to affect the foetal outcome and pregnancy anaemia, and observations similar to Pachauri & Marwah (1971).

Although anaemia as cause of congenital malformation, is not yet established, dietary deficiencies are known to cause congenital malformations in experimental animals. In the present study only one case of anencephaly was found.

The incidence of preterm deliveries in anaemic and control group was 7.2% and 1.6% respectively, as compared to incidence found by other workers – 1.7% and 2.2% (Lanzila, 1962), 2.7% (Gatenby & Lilley, 1960), 3.6% and 41.7% (Aschari et al, 1982) in anaemic and control cases respectively.

Incidence of still-birth was 15% in anaemic mothers, as compared to that found by other workers 18.0% (Aschari et al, 1982) and 2.8% (Gatenby and Lilley, 1960). This high incidence of preterm and still births found in anaemic patients is comparable with study by ICMR (1977) which states that anaemia per se is associated with high incidence of premature births.

As indicated earlier available data of different workers indicate that infants born to low socioeconomic group have low birth weight (WHO, 1974 and Mehrhy et al, 1974). Multivariate studies have linked maternal haemoglobin level with birth weight (Mirsen, 1985; Raman, 1958 and Rhoads and Tyagi, 1984). Taking an overall view of number of variables in present study it was observed that

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