

# IRON PROFILE IN TERM SMALL FOR GESTATIONAL AGE INFANTS AND CORRELATION WITH MATERNAL IRON PROFILE AT 10 WEEKS OF AGE: A PROSPECTIVE COHORT STUDY

**AIM: To assess proportion of term SGA neonates developing iron deficiency anemia by 10 weeks of age and measure correlation between iron profile and hepcidin of babies at birth and at 10 weeks of age with maternal iron profile**

## SUBJECTS

120 full term healthy singleton SGA neonates and their mothers

## METHODS

Hemogram, iron profile & serum hepcidin (every 4<sup>th</sup> mother-infant pair) was estimated in:

cord blood, mother (within 2 hrs of delivery) & infant (at 10 ± 1 week)

Babies developing anemia at 6 weeks detected by hemogram and ferritin levels, were started on iron supplementation and were excluded

## RESULTS

Proportion of infants with anemia & IDA (N=120)



At 6 & 10 wks of life:

	Anemia	IDA
6 weeks	35(29.2%)	17(14.2%)
10 weeks	59(49.2%)	28 (23.3%)

**Iron stores of babies at birth were found to be independent of maternal iron stores, with only a weak positive correlation between maternal serum iron and serum iron of babies at birth**

## CONCLUSION:

**Significant proportion of term SGA infants developed anemia during early infancy, irrespective of maternal iron status**

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