

# 17<sup>TH</sup> AMERICAN PEDIATRICS HEALTHCARE & INFECTIOUS DISEASES CONGRESS

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17<sup>th</sup> Annual World Congress on **NEONATOLOGY** June 27-28, 2018 | Vancouver, Canada



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### **Risk of hypoglycemia in normal, healthy and exclusively breast fed newborns in first 24-48 hrs of life**

**Objective:** To assess risk of hypoglycemia in normal, healthy and exclusively breast fed newborns in first 24 – 48 hrs of life.

**Methods:** A prospective, longitudinal study conducted on 141 normal healthy, exclusively breast fed newborns. Blood glucose was measured at birth, 2hrs, 6 hrs, 12hrs, 18hrs, 24hrs, 36hrs and 48hrs after delivery. The impact of parity, mode of delivery and intrapartum intake of glucose on blood glucose was analysed.

**Results:** Of 141 newborns, 5 had asymptomatic hypoglycemia who responded to breast feed or formula feed. Incidence of hypoglycemia was 3.5% among all, 33.3% in LGA babies, 33.3% in SGA babies and 2.2% in AGA babies. Mean RBS at the time of hypoglycemia was 36.17+ 1.7mg/dl. Mean RBS among hypoglycemic babies at birth was 94+41.9 mg/dl. Mean overall age of presentation of hypoglycemia was 6hrs 20 min. Newborns born to mothers with higher intrapartum intake of glucose had higher blood sugar levels at birth followed by lower blood sugar levels at subsequent 2 hrs and 6 hrs of life. The fluctuations in the blood sugar values were significantly associated with intrapartum glucose intake by the mothers. There was no statistically significant difference in the occurrence of hypoglycemia based on gestational age, parity and mode of delivery.

**Conclusions:** A normal healthy and exclusively breastfed newborn had a significantly high incidence of asymptomatic hypoglycemia, more so in SGA, LGA and male babies. However parity, gestation and mode of delivery did not influence blood glucose levels.

### **Biography**

Pushwinder kaur has her expertise in evaluation and passion in improving the health and well being. She has completed her MD pediatrics at age of 26 years from Baba Farid University of Health Sciences, Punjab, India and Fellowship in neonatology from Chaitanya hospital, Chandigarh, India. She is currently working as Assistant Professor in Department of Pediatrics, Punjab Institute of Medical Sciences, Jalandhar, India. She has clinical experience of 12 years in pediatrics and neonatology. She is member of IAP and NNF organization.

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