

# Comprehensive Neonatal Nutrition Workshop: From Science to Practice

**Venue: DY Patil  
Coordinator –  
Dr Sudhir  
Malwade**

**09:00 – 11:00 AM –**

Lecture Session 1:

- Importance and Indications of parenteral nutrition in Neonates
- Nutrient Requirements recommendations and their role in TPN, Carbohydrates, Amino acids, Lipids, Vitamins and minerals
- TPN Calculations, compounding and administration.
- Monitoring a baby on parenteral nutrition

**11:15 – 1:15 PM –**

Lecture Session 2:

- Setting up and Sustaining a Human Milk Bank
  - Donor recruitment, screening, collection protocols
  - Pasteurization, storage, and quality control
- Speakers: TBD

: Human Milk Nutritional Analysis – The Next Frontier in Personalized Neonatal Nutrition

- Tools & techniques: mid-infrared analyzers, test methods
- Using milk analysis to guide fortification strategies

Speaker: Dr. TBD

- Targeted Fortification – Bridging the Nutritional Gap in Preterm Nutrition
- Individualizing based on milk analysis and growth metrics

**2:15 – 4:45 PM – Work stations**

Work station 1

**(45 minutes)**

- Nutrients available in Indian market - preparations to show and discuss
- Calculation of Nutrient Dosages in TPN – Manual & Software based

**– Work station 2**

**(35 minutes)**

TPN Compounding – show lines, bact filters, Laminar flow hood,

**– Work station 3**

**(35 minutes)**

- Milk bank tour: Demonstration: Pasteurization, storage & fortification
- Case discussion: Milk analysis data and feeding plans

Work station 4

**(35 minutes)**

Improving breast feeding in preterm (Oromotor stimulation, milk expression, storage and KMC)

**4:45 – 5:00 PM – Closing Remarks & Certificate Distribution**

## Workshop faculty:

Dr. Shailaja M

Dr. Sudhir M

Dr. Vrushali B

Ms Ketaki

Dr. Sushma N

Dr. Jayshree M

Dr. Sheila M

Dr Shwetal B