

# Neonatal Ventilation Course

Learn Online followed By Hands-on  
Training and Observership  
@Bangalore!

Continuing Medical Education (CME)  
For Doctors and Surgeons



## Neonatal Ventilation Course

The art of ventilating a newborn doesn't end just at making them survive, but also in having quality life in the long run. These tiny newborns are not just miniature adults/children. Their many body organs including lungs are still developing, they need a skilful approach to help them breathe and grow appropriately in the NICU. The course focuses on gentle ventilation with prevention of infection, lung damage (chronic lung disease) and other effects of higher oxygen.

## Course Contents and Highlights

- **Learning Objective:**  
Art of gentle ventilation in newborns
- **Learning Methodology:**  
Online sessions to build knowledge and basics. Case-based vignettes for better experiential learning. Hands-on experience with sick neonates (offline)
- **Learning Outcome:**  
Well versed with disease-specific ventilation, prevent infections, optimise settings with graphics, blood gases etc.

## Learn from the Experts!

Ovum Woman & Child Specialty Hospital has been spread across 4 centres in Bangalore and Bangalore rural since 2014. The faculty is a team of consultants serving in these centres with their training from reputed institutes of India including PGIMER (Chandigarh), BMCRI (Bangalore)

## Course Duration

- Online- 12 weeks of Self-paced learning
- Online + Offline- 12 weeks of Self-paced learning + 08Hrs of Hands-on experience

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## Neonatal Faculty

### Course Director



**Dr. Abhishek S Aradhya**  
MBBS, MD (PGI), DM (PGI)  
Fellowship in Neonatology



**Dr. Ravi Shankar Swamy**  
MRCPC | MD | CCT | FRCPC



**Dr. Maneesha P H**  
MBBS, DNB,  
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**Dr. Vimal Kumar U**  
MBBS, DCH, DNB,  
Neonatal Fellowship (London, UK)



**Dr. Sharath S Ghalige**  
MBBS, DCH, MD, DM



**Dr. Vuppu Dinesh**  
MBBS, MD,  
IPPC (Australia), MRCPC (UK)



**Dr. Nayana B S**  
MBBS, MD, FNNF, Fellowship  
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MBBS, MD (PGI)  
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**Dr. Diksha Deepak**  
MBBS, MD,  
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**Dr. Avinash B S**  
MBBS, MD,  
Fellowship in Neonatology

## Course Topic:

Module	Topic
<b>Module 1</b> Non invasive ventilation	1. Respiratory physiology
	2. Science and physiology of CPAP
	3. Practical application of CPAP
	4. Non-invasive ventilation
	5. Humidified High Flow Nasal Cannula
	6. Humidification
<b>Module 2</b> Basics of Invasive Ventilation	7. Ventilator knobs, initial settings, disease-specific settings
	8. Synchronization and ventilator modes
	9. Care of ventilated neonate
	10. Weaning, extubation
	11. Troubleshoot ventilation, ventilator specifications, and maintenance
<b>Module 3</b> Advanced Invasive ventilation	12. Pulmonary graphics
	13. High-frequency oscillatory ventilation
	14. Chest X-ray
	15. Blood gas analysis
	16. Volume control ventilation

**Eligibility Criteria/Target Audiences:** Postgraduates in paediatrics, fellows in neonatology, nurses working in NICU, respiratory therapists, biomedical engineers.



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