

## **1)Brief Resume**

### **Present Post**

Assistant Professor in Neonatology at Sanjay Gandhi Post Graduate Institute of Medical Sciences,Lucknow,Uttar Pradesh,India.

### **Membership:**

Member of Newborn brain society

### **Manipal hospital, Bengaluru**

Tertiary care unit with bed strength of 35, with 15 conventional ventilators and 3 High frequency ventilators and 8 bubble CPAPs, Nitric Oxide Inosys. Tecotherm cooling system. Birth rate of 2500-3000 per year.

Main Referral Unit in Bengaluru

### **Previous Post**

Specialist in Division of Neonatology,Department of Pediatrics, Manipal Hospital, Whitefield , Bangalore from 2018 to 2022

DNB Trainee in Neonatology in Department of Neonatology(NICU), Manipal Hospital, Old Airport Road ,Bengaluru from April 22, 2015 to April 22, 2018.

Fortis Hospital,Karol Bagh, New Delhi

Worked as Registrar- Pediatrics from 1st January 2014 to 31 st July 2014.

Rockland Hospital, Qutab Institutional area , New Delhi

Worked as Registrar – Pediatrics and Neonatology from 1st August 2014 to 18th April, 2015

### **Resident in Paediatrics**

1 st May 2010 to 30th April 2013 – Completed compulsory Post Graduation in Safdarjang Hospital , New Delhi , Affiliated to Guru Gobind Singh Indraprastha University and Recognized by Medical Council of India, New Delhi.

General Paediatrics-22 months

Neonatology(NICU)-14 months

Hospital Profile

NICU- 2 in number with a total bed strength of 60 , 12 Ventilators

General Pediatrics Ward – 3 in number with a bed strength of 50 in each ward

**Resident Intern**

15<sup>th</sup> January 2009 to 15<sup>th</sup> January 2010 - Completed the compulsory rotating housemanship/internship (one year program) as a Resident Intern, Post MBBS from Vardhaman Mahavir Medical College and Safdarjang Hospital, affiliated to Guru Gobind Singh Indraprastha University and Recognized by Medical Council of India, New Delhi.

**2) Professional Qualification and experience**

DNB Neonatology  
National Board of Examinations

MD Paediatrics  
Vardhaman Mahavir Medical College and Safdarjang Hospital.

MBBS Vardhaman Mahavir Medical College and Safdarjang Hospital.

**Specialised Training**

1. DNB Neonatology Trainee in Manipal Hospital Bangalore for 3 years from April, 2015 to April, 2018
2. IAP-NNF Neonatal Resuscitation Program First Golden Minute Project (NRP FGM) – Completed Advance NRP provider course held on 11<sup>th</sup> August, 2016 at Vani Vilas Hospital, BMCRI, Bangalore.
3. Neonatal Emergencies Simulation Training (NEST) India - In collaboration with London NTS , at Bangalore, 2016

## **Clinical Experience in Neonatology**

I have been working in field of Neonatology past 8 years. Currently I am working at tertiary level centre where newborns receive maximum care.

I have good experience in managing sick newborns, Extreme premature babies, Asphyxiated babies, Septic babies, Cardiac and surgical neonates.

I have special interest in ventilated newborns including conventional and High frequency ventilation. I have also dealt with sick babies with Persistent pulmonary hypertension requiring Inhaled nitric oxide.

I also have experience in Cooling in asphyxiated newborns.

I also have experience in newborns with complex congenital heart disease and managing them preoperatively and postoperatively. I am also involved with Paediatric surgical team handling variety of diseases like Tracheo-esophageal fistula, congenital diaphragmatic hernia, Idiopathic hypertrophic pyloric stenosis, Necrotizing enterocolitis etc.

I would like to get advanced training in areas like ventilation, ECMO. I like working in a team and believe that proper co-ordination is the most essential element in a successful resuscitation.

- Neurosonogram-** I have been using this utility in clinical practice for past 7 years.
- Echocardiogram-** Functional and limited structural aspects as a part of DNB Neonatology thesis.

## **Research Experience**

### 1. As a Chief Investigator

—A study on clinical, serological and radiological profile in Neurocysticercosis in the department of Paediatrics, Safdarjang Hospital , New Delhi from May, 2010 to May, 2012.

We found that a high correlation between clinic-serological profile and radiological profile in children with Neurocysticercosis and was accepted by 13 | Page Guru Gobind Singh Indraprastha University and was conferred MD in Pediatrics upon me.

## 2. As a Chief Investigator

### **EVALUATION OF DOPPLER DERIVED MYOCARDIAL PERFORMANCE INDEX OF THE RIGHT VENTRICLE FOR DIAGNOSIS OF PERSISTENT PULMONARY HYPERTENSION IN NEWBORNS**

As a part of Dissertation thesis in DNB Neonatology , Manipal Hospital, Bangalore from April, 2015 to April, 2107

We found that there there was a near linear correlation(Correlation coefficient) between Myocardial Performance Index and Tricuspid Regurgitation JET in neonates with PPHN.

## 3)Awards and Honours

3<sup>rd</sup> Prize in Free Paper Presentation at CZ Neocon 2023 held in Lucknow.

## 4)Publications

1. Venkatesh IH,Paul A. Arteriovenous fistula in a neonate - Utility of bedside echocardiography. J Clin Neonatol 2017;6:198-9.
2. Venkatesh HA, Paul A, KantharajA, ChandrashekarS . A case report of neonatal alloimmune thrombocytopenia: The utility of platelet crossmatch studies in the diagnosis and management.GlobalJTranfus Med 2019;4: 234-6
3. Paul A , Swamy Shankar Ravi .Neonatal Varicella: A Rare Presentation inClinical Grand Rounds in Pediatric Infectious Diseases , 2020 (Chapter)
4. Approach to a baby with Colic in the book “Holistic Concepts of Neonatal Nutrition”,2022(Chapter)
5. Diggikar S,Paul A et al .Respiratory infections in children born preterm in low and middle-income countries: A systematic review Pediatr Pulmonol 2022 Dec;57(12):2903-2914
6. Verma A,Paul A et al. Lung Ultrasound in Neonates: An Emerging Tool for Monitoring Critically Ill Infants. Newborn 2023; 2 (1):80-90.
7. Neurodevelopmental Outcomes of Preterm Infants Using Bayley Scale of Infant Development-III (BSID-III): A Tertiary Care Centre Study. Journal of Neonatology. 2024;0(0)

## 8.Pleural effusion with Nonimmune hydrops with Down Syndrome

### Chapter

1) Neonatal Varicella: A Rare Presentation in Clinical Grand Rounds in Pediatric Infectious Diseases , 2020

2) Approach to a baby with Colic in the book “Holistic Concepts of Neonatal Nutrition”

Finished online **NEOPOCUS** training program in December 2022.

Future Research topics(To be initiated in 2024) :

- 1) Validation of Retinopathy of Prematurity Score in neonates
- 2) Utility of CD Markers(CD 11 b) for early detection of Sepsis in neonates
- 3) Role of urinary biomarkers for early detection of Acute Kidney Injury in neonates
- 4) To start Stem cell research in neonates in India(Also looking at animal Studies)
- 5) Initiation of ECMO services for neonates
- 6) Saturation Oxygenation Pressure Index Study in neonates
- 7) Use of Genomic methods in Neonates for identification of microbes implicated in Sepsis in Neonates