

REVIEW ARTICLE

The Contribution of Dr. Vinod K. Paul to the Field of Pediatrics

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How to cite this article:

Kasumbiwal Ajay H., Lakhe Siddheshwar A., Mundhe Sudarshan, et al. The Contribution of Dr. Vinod K. Paul to the Field of Pediatrics. *Pediatr. Edu. Res.* 2025; 13(2): 480-482.

ABSTRACT

Dr. Vinod K. Paul, a distinguished Indian pediatrician, neonatologist, and public health leader, has played a transformative role in improving maternal and child health in India. This article reviews his extensive clinical, academic, and policy contributions spanning over four decades. From his early years at the All India Institute of Medical Sciences (AIIMS), Dr. Paul contributed substantially to strengthening neonatal care systems across the country. He supported large-scale initiatives in neonatal resuscitation, encouraged the widespread adoption of Kangaroo Mother Care for small and preterm infants, and guided the Delhi Neonatal Infection Study (DeNIS), a landmark project that generated crucial evidence on neonatal infections and antimicrobial resistance patterns in Indian hospitals.

His academic legacy includes co-editing Ghai's Essential Pediatrics, mentoring generations of pediatricians, and promoting evidence-based neonatal care protocols that have been widely adopted across diverse healthcare settings. He has also contributed significantly to capacity building through training programs, policy advisories, and national guidelines aimed at improving neonatal survival and quality of care.

Beyond academia, his leadership in national health governance has been equally impactful. As Member (Health & Nutrition) at NITI Aayog, he played a central role in shaping flagship initiatives such as Ayushman Bharat, POSHAN Abhiyaan, and India's COVID-19 vaccination strategy. His work reflects a rare integration of clinical excellence, research innovation, and policy leadership.

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➤ **Received:** 10-12-2025 ➤ **Accepted:** 24-12-2025



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Dr. Paul's career exemplifies how sustained commitment, ethical leadership, and system-level thinking can strengthen public health institutions and significantly improve maternal and child health outcomes nationwide.

KEYWORDS

• Dr. Vinod K. Paul • Pediatrics • Neonatology • Neonatal Resuscitation • Kangaroo Mother Care • Neonatal Sepsis • Public Health Policy • Ayushman Bharat • POSHAN Abhiyaan • COVID-19 Task Force • NITI Aayog • Child Health Leadership

INTRODUCTION

Dr. Vinod K. Paul, an eminent Indian pediatrician and neonatologist, has significantly influenced child health through his clinical work, medical education, and policy leadership. His contributions span neonatal medicine, infectious disease research, and national health strategy. Owing to the breadth and depth of his work, Dr. Paul serves as a compelling subject for understanding how scientific expertise can shape public health outcomes at scale.

Background:

Born on August 1, 1955, in Hoshiarpur, Punjab, Dr. Paul pursued his early education in Punjab and Himachal Pradesh. He completed his MBBS, MD (Pediatrics), and later a PhD from the All India Institute of Medical Sciences (AIIMS), New Delhi. Joining AIIMS as faculty in 1985, he eventually served as Head of Pediatrics for nearly a decade. Dr. Paul currently serves as Member (Health & Nutrition) at NITI Aayog, where he has contributed to shaping India's healthcare reform and national programs.

Scientific Contributions

1. Neonatal Resuscitation and Kangaroo Mother Care

Dr. Paul played a pivotal role in expanding neonatal resuscitation training and protocols across India. His efforts helped strengthen frontline capacity to prevent birth asphyxia-related mortality. He was also a national advocate for Kangaroo Mother Care, integrating it into routine care for low-birthweight infants.

2. Neonatal Sepsis Research

As lead investigator for the Delhi Neonatal Infection Study, Dr. Paul oversaw one of the country's major multicenter efforts focused on understanding neonatal sepsis.

3. Textbook and Protocol Development

Dr. Paul serves as co-editor of Ghai's Essential Pediatrics, a widely used textbook for undergraduate medical training. His contributions also extend to developing neonatal care protocols at AIIMS, which have shaped clinical practice across the country.

4. Challenges and Breakthroughs

Implementing neonatal interventions in diverse and resource-constrained environments required strong leadership, collaboration, and innovation. Dr. Paul's ability to build consensus and operationalize evidence-based interventions helped overcome major system-level barriers.

5. COVID-19 Response

During the COVID-19 crisis, Dr. Paul played a central role in national planning and vaccine rollout by heading key expert groups such as the National Expert Group on Vaccine Administration (NEGVAC)."

6. Public Health Programs

Dr. Paul has been instrumental in conceptualizing and implementing major national programs such as Ayushman Bharat, which expanded financial protection and primary care access, and POSHAN Abhiyaan, which strengthened maternal and child nutrition initiatives.

Reflection:

Dr. Paul's career exemplifies the integration of clinical expertise, health systems understanding, and policy leadership. His work highlights the importance of multidimensional engagement combining patient care, research, education, and governance to create lasting public health impact. For medical students and young clinicians, his journey demonstrates

how scientific rigor and social commitment can shape national health trajectories.

CONCLUSION

Dr. Vinod K. Paul is not only an accomplished clinician and researcher but also a key architect of India's child health strategies. His contributions to neonatal care, infectious disease research, health policy, and systems strengthening represent a model of comprehensive pediatric leadership. His legacy continues to influence maternal and child health programs both in India and globally.

Conflict of Interest: The authors declare that there are no conflicts of interest.

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