



DR. HARSHAVARDHAN R K

Critical Care Medicine - Specialist

Qualification

DM-Critical Care Medicine | MBBS | DNB | Fellowship in Critical Care
Ultrasound—FCCU (ISCCM) | FIECHO | FIECMO | EDEC (Advanced
Intensive Care Echocardiography)

Overview

Dr. Harshavardhan R. K. is a dedicated and accomplished Critical Care Medicine Specialist with advanced expertise. He is currently practicing as an Associate Consultant – Critical Care Medicine at Manipal Hospital Sarjapur, Bengaluru, where he applies his extensive experience in managing critically ill patients with a focus on innovation and evidence-based practices. She is a leading critical care expert in Sarjapur Road. Dr. Harshavardhan's robust educational background includes a DM in Critical Care Medicine from AIIMS Jodhpur, a DNB in Anaesthesiology from P. D. Hinduja Hospital, Mumbai, and an MBBS from Belgaum Institute of Medical Sciences. He further strengthened his specialised skills through various certifications and fellowships, including FIECHO (Fellowship in Echocardiography), FIECMO (Fellowship in Extracorporeal Membrane Oxygenation), FCCU (Fellowship in Critical Care Ultrasound), and EDEC (European Diploma in Advanced Intensive Care Echocardiography). His clinical expertise is comprehensive, encompassing advanced transthoracic and transesophageal echocardiography, point-of-care ultrasound (POCUS), and various

critical care procedures such as bronchoscopy (BAL, lavage therapy, mucus plug removal), pericardiocentesis, difficult airway management, and intercostal drain (ICD) placement. Dr. Harshavardhan is also highly skilled in managing complex Renal Replacement Therapy (RRT) prescriptions. During his tenure as Senior Resident at AIIMS Jodhpur, he managed complex ICU cases, including ECMO (VV and VA) and multi-organ failure, and actively contributed to departmental academic activities. He is also a simulator instructor for transesophageal echocardiography (TEE) training. Passionate about improving critical care outcomes, Dr. Harshavardhan actively engages in medical education and research. He has a notable list of peer-reviewed publications in prominent medical journals, covering topics such as the effects of methylene blue and vasopressin in septic shock, case reports on unusual conditions, and advanced critical care interventions. He is an active participant and presenter at national and international conferences, recognised with the DR KOPP's Award at the National Anaesthesiology Conference in 2015. His special interests lie in advanced echocardiography and ultrasound applications in critical care, extracorporeal therapies (ECMO and CRRT), infectious disease medicine, and emergency airway management. He aims to establish comprehensive critical care training programs and contribute to research in critical care innovations on national and international platforms.

Fellowship & Membership

- Certifications & Fellowships:
- FIECHO – Fellowship in Echocardiography, The Simulation Society & International Society of Cardiovascular Ultrasound (2023–2024)
- FIECMO – Fellowship in Extracorporeal Membrane Oxygenation, TSS Society of India
- FCCU – Fellowship in Critical Care Ultrasound, ISCCM

- EDEC – European Diploma in Advanced Intensive Care Echocardiography
- JROP Hands-On Echocardiography Course – 6-month certification
- MRCP Part 1 & EDIC Part 1

Field of Expertise

- Advanced Echocardiography & Ultrasound Applications—Transthoracic (TTE) & Transesophageal (TEE) echocardiography, critical care ultrasound, and bedside cardiac diagnostics.
- Infectious Disease & Tropical Medicine
- Critical care management of septic shock, multi-drug resistant infections, and complex tropical infections and fungal infections.
- Snakebite Envenomation & Toxicology
- Management of neurotoxic, hemotoxic, and myotoxic envenomations.
- Advanced support for delayed alveolar hemorrhage, coagulopathy, and multi-organ failure in snakebite cases.
- Expertise in drug overdose, poisoning, and toxin-induced critical illness.
- Haemodynamic Monitoring & Shock Management—Advanced haemodynamic assessment, vasopressor therapy, microcirculation monitoring, and goal-directed fluid therapy.
- Extracorporeal Therapies – ECMO (VV/VA), CRRT, hemodialysis in critical care, and plasma exchange therapy.
- Difficult Airway & Mechanical Ventilation Strategies – Advanced invasive and non-invasive ventilation, weaning protocols.
- Critical Care Procedures:
- Pericardiocentesis—Ultrasound-guided for cardiac tamponade.

- Difficult Airway Management - Tracheostomy (Blue Rhino & Griggs technique), Awake Fiberoptic Intubation.
- Ultrasound-Guided Pigtail Catheter Insertion—For pleural effusions & ascites drainage.
- Intercostal Drain (ICD) Placement—Pneumothorax and haemothorax management.
- Bronchoscopy - Diagnostic & therapeutic interventions (BAL, mucus plug removal)."

Languages Spoken

- Kannada
- English
- Hindi

Awards & Achievements

- Original Article: Effects of Early Use of Methylene Blue and Vasopressin on Noradrenaline Dose in Septic Shock: A Randomized Controlled Trial
- Published in the Indian Journal of Critical Care Medicine (IJCCM), 2025.
- DOI: 10.5005/jp-journals-10071-24905
- Case Report: Delayed Diffuse Alveolar Haemorrhage in Echis sochureki Envenoming, Jodhpur, India.
- Published in the American Journal of Tropical Medicine and Hygiene, January 2022.
- DOI: 10.4269/ajtmh.21-1187
- Published Manuscript: Creutzfeldt-Jakob Disease: A Rare Disorder—A Common Malingerer.
- Published in Research and Opinion in Anaesthesia & Intensive Care Journal.

