



Harsha K J

Nationality: Indian **Location:** King Abdullah Medical Complex, Jeddah, Saudi Arabia
Phone number: +966 561080499 | +966 507957403
Email address: harshajoy646@gmail.com
LinkedIn: linkedin.com/in/harsha-k-j-7738321bb

Profile

Perfusionist – Specialist | Cardiac Perfusion Scientist

Forward-leaning Cardiac Perfusionist Specialist driving high-acuity cardiothoracic interventions through precision-led extracorporeal support systems, evidence-aligned perfusion protocols, and multidisciplinary operational synergy. Bringing 5+ years of mission-critical expertise across cardiopulmonary bypass (CPB), ECMO, VAD workflows, intraoperative blood management, hemodynamic governance, and high-risk surgical optimization, I aim to amplify patient outcomes, strengthen perfusion governance frameworks, and elevate institutional excellence through continuous innovation and clinical stewardship.

Professional Experience

Perfusionist (Specialist) | King Abdullah Medical Complex – Jeddah, Saudi Arabia | Jun 2024 – Present

- Operational leadership in cardiopulmonary bypass, ensuring seamless CPB transitions, optimal systemic perfusion parameters, and outcome-driven circulatory management during complex cardio-thoracic procedures.
- Spearhead ECMO program delivery, functioning as ECMO Specialist & ECMO Educator for internal capacity building, simulation workshops, and multidisciplinary clinical readiness initiatives.
- Lead intraoperative blood-conservation strategies, including autotransfusion, blood-gas interpretation, acid-base alignment, and hemodynamic stabilization.
- Manage life-support systems in ICU & OR environments, driving asset reliability, workflow compliance, and regulatory alignment.
- Develop training modules for new perfusion staff, reinforcing standardized operating frameworks and clinical governance.

Perfusionist | SRM Medical College Hospital & Research Centre, Chennai, India | Jun 2022 – Oct 2023

- Executed heart-lung machine operations for diverse cardiac surgery portfolios, ensuring consistent CPB delivery and patient-centric perfusion adjustments.
- Supported ECMO initiation, monitoring, troubleshooting, and weaning, aligned with institutional cardiothoracic care pathways.
- Oversaw intraoperative hemodynamic monitoring, ensuring stable physiological parameters throughout surgical cycles.
- Strengthened perfusion documentation, incident reporting, and compliance metrics to enhance departmental audit readiness.
- Collaborated with anesthesia and surgical teams for high-acuity case optimization and perioperative performance enhancement.

Perfusionist | Vinayaka Mission Super Specialty Hospital, Tamil Nadu, India | Feb 2020 – Feb 2022

- Delivered end-to-end perfusion lifecycle management across adult cardiac surgeries requiring CPB support.
- Performed anticoagulation monitoring, intervention response mapping, and risk-mitigated perfusion adjustments.
- Ensured equipment readiness, asset calibration, and compliance with safety frameworks for extracorporeal systems.
- Coordinated with ICU teams for postoperative circulatory assessments and early CPB-to-ICU transition stabilization.

Education

- Master of Science in Perfusion Technology** | Narayana Hrudayalaya Institute of Medical Sciences, Bangalore, India – RGUHS | 2020
- Bachelor of Science in Perfusion Technology** | Meenakshi Academy of Higher Education & Research (MAHER), Tamil Nadu, India | 2017

Core Competencies & Technical Skills

- **Cardiopulmonary Bypass (CPB) Management** – Full-cycle CPB governance, parameter optimization, and high-risk intraoperative perfusion delivery.
- **ECMO Operations & Education** – Adult ECMO initiation, monitoring, troubleshooting, and structured clinical training programs.
- **Hemodynamic Monitoring & Analysis** – Advanced interpretation of flow dynamics, pressure gradients, and perfusion indices.
- **Blood Gas & Acid-Base Interpretation** – Rapid analytics supporting intraoperative stability, transfusion decisions, and metabolic alignment.
- **Autotransfusion & Blood Management Systems** – Utilization of cell-saver technologies to support perioperative conservation.
- **VAD & Extracorporeal Circulatory Support** – Functional oversight of ventricular assist workflows within surgical and ICU settings.
- **Anticoagulation Monitoring** – Precision-led ACT management ensuring CPB/ECMO safety and compliance.
- **Perfusion Equipment Operations** – Proficiency in Maquet HL 20/Jostra HL 20, Sarns 8000, Stockert S5/S3, Cardiohelp ECMO, Xenios Novalung, AC3 Optimus, Spectrum Quantum HLM, and cell saver systems.
- **Safety & Regulatory Compliance** – Adherence to perfusion guidelines, ECMO protocols, and clinical quality frameworks.
- **Cross-functional Clinical Collaboration** – High-acuity decision support across cardiothoracic surgery, ICU, anesthesia, and transplant care ecosystems.

Certifications & Licences

- **Certified Cardiovascular Perfusionist (CCP)** – Board of Cardiovascular Perfusion, India (Reg. No. L/31/1931)
- **Overseas Membership** – The Society of Clinical Perfusion Scientists of Great Britain and Ireland | Membership No.: SCPS7154 | Validity: 2025 – 2026
- **Saudi Commission for Health Specialties** – Profile No. 24675746
- **BLS – Saudi Heart Association** (Reg ID: 88923)

Professional Development & Conferences

- Speaker – **ECMO Workshop**, KAMCJ Jeddah (2024, 2025)
- **SWAAC ELSO Conference** (2025)
- **ISECT Conferences** (2017, 2019, 2023)
- **Perfusion Simulation Program** – NH Bangalore
- **Comprehensive ECMO Course** – Getinge Academy
- **Workshops on CPR, AED, cannulation in CPB, and ECMO technology**

Courses

- **Transplant Coordinators Training Programme** – MOHAN Foundation | 2021 – Present

Languages

- English | Hindi | Malayalam | Tamil

References

- Available upon request