

Sana Naeem

Cardiac Perfusionist

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Profile

Dedicated and meticulous Cardiac Perfusionist with a Bachelor of Science in Cardiac Perfusion from NUMS and 6 months of clinical experience at AFIC & NIHD Rawalpindi. Skilled in operating and managing cardiopulmonary bypass machines, monitoring extracorporeal circulation, and supporting cardiac surgical procedures. Known for strong attention to precision, clinical competence, and a commitment to patient safety. Enthusiastic about advancing knowledge in perfusion techniques and contributing effectively to multidisciplinary cardiac care teams.

Education

BS Cardiac Perfusion

National University of Medical Sciences

03/2021 – 04/2025 | Rawalpindi

Graduated with top honors from Armed Forces Postgraduate Medical Institute (AFPGMI), NUMS. Acquired second position in CP batch 2021 with CGPA 3.85/4.0.

Skills

- Assembling and Handling Heart lung machine
- Monitoring Intraoperative Balloon Pump Waveforms and handling its emergencies
- Assembling and monitoring Cell Saver machine

Professional Experience

Internee Cardiac Perfusionist

Armed Forces Institute of Cardiology, National Institute of Heart Diseases (AFIC&NIHD), Rawalpindi

04/2021 – Present | Rawalpindi

Monitored real-time blood gas levels during cardiopulmonary bypass to promptly adjust perfusion parameters, ensuring optimal patient oxygenation and metabolic stability

Calibrated and maintained extracorporeal circulation equipment during different cardiac surgeries (CABG, valve procedures, Bentall), ensuring precise perfusion management and reducing intraoperative complications.

Prepared and managed blood conservation strategies during cardiac procedures, improving resource efficiency and supporting patient recovery outcome.

Executed emergency protocols during unexpected perfusion system failures, ensuring uninterrupted circulatory support and maintaining critical patient stability throughout surgery.

Adjusted cardiopulmonary bypass flow dynamics in response to physiological changes, maintaining optimal tissue perfusion and supporting procedural efficiency.

Configured and verified cardioplegia delivery systems to ensure myocardial protection, contributing to enhanced procedural efficiency and patient cardiac function preservation.

Certificates

<https://credsverse.com/credentials/dabfc489-580e-49fe-a227-551bd1aae627>

Attended the Virtual Educational Summit on Extracorporeal Membrane Oxygenation (ECMO) powered by Mediland Pakistan & Getinge (Feb 14, 2025), featuring lectures by Prof. Dr. Akram Abdulbery (HOD ICU, Cairo University; Ex-Chairman SWAAC-ELSO) and George Tawfik (Regional Senior Product Manager, Getinge), with focus on advanced ECMO principles, clinical management, and emerging technologies.

<https://credsverse.com/credentials/d6d9451f-29bd-46e9-85fb-92c61daf7fb4>

Attended the Virtual Launch of the Quantum Heart-Lung Machine by Spectrum Medical (UK) in Pakistan (Jan 6, 2025), presented by Youseef El Dsouki (Director of Clinical Education) and Arafat Monsur (VP of Clinical Sales), highlighting advancements in perfusion technology and next-generation cardiopulmonary support systems.