

Babar Ali

Lecturer Cardiac Perfusion and Cardiology Technology / Clinical Perfusionist

Nationality: Pakistani
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With over eight years of experience in academia and clinical practice, I have developed expertise in teaching, academic development, and cardiovascular research. My clinical experience spans cardiovascular, cardiothoracic, and cardiology departments, where I have contributed to patient care and demonstrated specialized clinical techniques. I maintain a strong interest in cardiovascular research, particularly myocardial protection and advances in cardiac perfusion.

Education:

MS Perfusion Technology with 4 cGPA

Shiraz University of Medical Science, Iran, 2021-2023

Majors: Cardiovascular Anatomy, Cardiovascular Physiology, Cardiovascular pathology and diseases, Cardiovascular Perfusion Technology, Perfusion lab and equipment, and Physiological Management of Bypass.

Skills: Cardiovascular Research, Paediatrics Perfusion, Adult Perfusion, Heart-Lung Transplantation, Isolated Organ Perfusion, Blood Management, Quality Assurance, and Teaching Method.

Thesis: Comparison of routine del Nido cardioplegia vs two types of modified del Nido cardioplegias for myocardial protection among patients undergoing coronary artery bypass grafting (CABG) surgeries: A Randomized Double-Blind Clinical Trial.

BS Cardiac Perfusion Technology with 3.73 cGPA

Khyber Medical University, Pakistan, 2014-2018

Majors: Electrocardiography, Echocardiography, ECMO, Perfusion Technology, Cardiac Surgery, Heart Disease, Pulmonary Disease, Pathology, Pharmacology, Biochemistry, Microbiology, Critical Care, and Diagnostic Equipment

Skills: Cardiovascular Research, Paediatrics Cardiac Surgery, Adult Cardiac Surgery, Interventional Cardiology (Angiography, Angioplasty, and Paediatric Procedures), Diagnostic Cardiology (ECG, Echo, ETT, and Holter Monitoring).

Thesis: Comparison of Various Routes of Intermittent Cold Blood Cardioplegia in Elective Cases of Coronary Bypass Grafting Surgery: A Cross-Sectional Study

Publication:

1. Pervaiz Butt, S., Razzaq, N., Cook, **B.**, Ali, B., Saqib, H., Amir, A., Aljabery, Y., Abdulaziz, S., & Ghori, A. (2025). **Perfusion practices and safety standards in Pakistan: Insights from a preliminary nationwide survey.** *Journal of Extra-Corporeal Technology*, 57(1), 82–88.
<https://doi.org/10.1051/ject/2025007>
 2. Usman, H., Ali, B., Gul, S., Khan, K., & Abdullah. (2025). **Cousin marriages: One of the neglected causes of congenital heart disease: A cross-sectional study.** *International Journal of Social Sciences Bulletin*, 3(2), 829–837.
<https://doi.org/10.5281/zenodo.15295794>
 3. Ali, B., Usman, H., Gul, S., Khan, K., Ullah, B., & Ahmed, S. (2025). **Frequency of rheumatic mitral valve stenosis and severity distribution among the age group of 20–45 years presented to health setups of District Swat: A cross-sectional study.** *Insights – Journal of Health and Rehabilitation*, 3(3), 190–197. <https://doi.org/10.71000/zhagtc50>
 4. Ali, B., Butt, S. P., Nour, M. G., Khosravi, M. B., Asmarian, N., Shoul, A. R., Kumar, A., Darr, U., & Bhatnagar, G. (2024). **Comparison of routine del Nido cardioplegia vs two types of modified del Nido cardioplegias for myocardial protection among patients undergoing coronary artery bypass grafting (CABG) surgeries: A randomized double-blind clinical trial.** *Journal of Extra-Corporeal Technology*, 56(1), 84–93.
<https://doi.org/10.1051/ject/2024011>
 5. Butt, S. P., Kakar, V., Kumar, A., Razzaq, N., Saleem, Y., Ali, B., Raposo, N., Ashiq, F., Ghori, A., Anderson, P., Srivataav, N., Aljabery, Y., Abdulaziz, S., Darr, U., & Bhatnagar, G. (2024). **Heparin resistance management during cardiac surgery: A literature review and future directions.** *Journal of Extra-Corporeal Technology*, 56(2), 136–144. <https://doi.org/10.1051/ject/2024015>
 6. Ullah, B., Zeb, . S., Imran, . M., Ahmad, . S., Ghani, . M. & Ali, . B. (2022) **Incidence of atrial fibrillation in patients undergoing valve surgery.** *Rawal Medical Journal*, 47 (2), 279-281
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Certificates and Diplomas:

08/2025	Certificate of Basic Life Support (CPR and AED) by the American Heart Association.
01/2021	Special Diploma Course in English Language from National University of Modern Languages, Peshawar, K.P, Pakistan.
09/2020	Certificate of participation in three days' training in "Emergency Preparedness" organized by Khadim Welfare Society in association with Rescue 1122 Peshawar, K.P, Pakistan.
10/2019	Certificate of participation in a one-day workshop on "Quality Enhancement Practices (Course files and Usage of Turnitin)".
05/2018	Certificate of participation in a three-hour workshop on "Arterial Blood Gases" organized by Northwest General Hospital and Research Center in association with Pakistan Society of Anesthesiologists, K.P, Pakistan.
04/2009	Certificate of two months training in "Microsoft Office" organized by the Association for Human Development.
04/2009	Certificate of two months training of "Advance EXCEL" organized by the Association for Human Development.
04/2009	Certificate of two months training in "Computer Hardware" organized by the Association for Human Development.
04/2009	Certificate of two months training in "Web Designing" organized by the Association for Human Development.
04/2009	Certificate of two months training in "Graphic Designing" organized by the Association for Human Development.
04/2009	Certificate of two months training in "AutoCAD" organized by the Association for Human Development.

Professional Experience:

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| 2025 – present | Currently working as a Lecturer of Cardiac Perfusion and Cardiology Technology at Khyber Medical University, Peshawar, KPK, Pakistan. |
| 2019 – 2025 | Worked as Demonstrator of Cardiac Perfusion Technology at Khyber Medical University, Peshawar, KPK, Pakistan. |
| 2022– 2023 | One-year experience as Clinical Perfusionist at Abu Ali Sina Organ Transplant Hospital, Iran. |
| 2018 – 2019 | One-year experience as Intern-Cardiac Perfusionist at Rehman Medical Institute, Pakistan. |
| 2016 – 2017 | One year experience as a part-time Trainee Cardiac Technologist at Peshawar Heart Center Dabgari Garden, Pakistan. |

Volunteer Experience:

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| 2019- present | Working as a General Secretary with an additional charge of Medical Team Leader at Khadim Welfare Society (an NGO that serves orphans, widows, poor, and deprived communities). |
| 2017 – 2018 | Worked as a volunteer Second-Into-Command (2IC) Leader of the Medical Team at Khadim Welfare Society Peshawar, K.P, Pakistan. |
| 2012 – 2016 | Worked as a Volunteer Member of the Medical Team at Khadim Welfare Society. |
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Honors, Awards, and Scholarships:

2023	Award of Appreciation for being a speaker at the 12 th Biennial conference by the Pakistan Association of Cardiovascular & Thoracic Surgeons.
2023	Award of Distinction (Gold Medal) by Shiraz University of Medical Science (SUMS), Iran.
2022	Merit-based scholarship by Shiraz University of Medical Sciences (SUMS)-Iran.
2019	Honored as the best teacher in the following subjects: Electrocardiography, Cardiovascular Critical Care, and Cardiopulmonary Anatomy by Quality Enhancement Cell of Khyber Medical University.
2018	Award of Distinction (Gold Medal) by Khyber Medical University.
2016	Award of best student by SAFE society.
2016	Merit-based scholarship by Khyber Medical University.
2016	Award of laptop under Prime Minister Youth Laptop Scheme.

Clinical rotations / Training/ Studentship:

2023	Six months Clinical Internship in “Cardiac OR” for pediatric and adult cardiac surgeries at “Shahid Faghihi Hospital” as part of postgraduate studies, along with 200 registered log bookcases (Shiraz-Iran).
2022	Six months Clinical Externship in “Cardiac and Thoracic OR” for Heart Transplantation, Lung Transplantation, HITOC, HIPEC, and ECMO at “Abu Ali Sina Hospital” as a part of post-graduate studies (Shiraz-Iran).
2017	Four months clinical rotation in “Cardiothoracic OR” at “Lady Reading Hospital” during undergraduate studies (PAK).

2017	Two months clinical rotation in “Cardiac Catheterization Laboratory” at “Lady Reading Hospital” during undergraduate studies (PAK).
2017	Two months clinical rotation in “The Cardiology Ward and Critical Care Unit” at “Lady Reading Hospital” during undergraduate studies (PAK).
2016	Two months clinical rotation in “Echocardiography Laboratory” at “Lady Reading Hospital” during undergraduate studies (PAK).
2016	Two months clinical rotation in “ETT, ECG, and Holter monitoring suite” at “Lady Reading Hospital” during undergraduate studies (PAK).

Interests / Hobbies:

Cardiovascular research, Charity work, Cooking, Reading, Traveling, Watching Talent Shows, and Playing Cricket.

Hard skills:

SPSS, Mendeley Cite, EndNote, Microsoft Office, Adobe Photoshop, CorelDRAW, and Troubleshooting.

Soft skills:

Interpersonal, Adaptability, Teamwork, Critical thinking and Leadership.

Medical skills:

Infant Perfusion, Pediatric Perfusion, Adult Perfusion, **ECMO (VV, VA), Heart Transplantation Perfusion, Lung Transplantation Perfusion, HIPIC, HITOC, Isolated organ Perfusion** (Brain, Kidney, Liver, Limbs), IABP operating, ECG, ETT, Holter Monitoring, Echocardiography, and Cardiac Catheterization.

Language skills:

English, Urdu, Pashto, Hindko, and Persian (Speaking, Reading, Writing, and Listening).