

# CURRICULUM VITAE

## **Usman Waheed, Ph.D.**

Assistant Professor / HOD  
Allied Health Sciences  
Islamabad Medical and Dental College  
Shaheed Zulfiqar Ali Bhutto Medical University  
Islamabad, Pakistan

- Technical Expert, Islamabad Healthcare Regulatory Authority, Ministry of National Health Services, Regulations & Coordination, Islamabad
- Technical Assessor ISO 15189, Pakistan National Accreditation Council, Ministry of Science and Technology, Islamabad
- Managing Editor, Journal of Islamabad Medical and Dental College <https://jimdc.org.pk/>

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## Academic Qualification

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**Ph.D.** (2019)  
Department of Pathology and Transfusion Medicine, Shaheed Zulfiqar Ali Bhutto Medical University, Islamabad, Pakistan.

**M.Phil.** (2011)  
Department of Molecular Biology and Biochemistry, Faculty of Biological Sciences, Quaid-i-Azam University, Islamabad, Pakistan. (Merit Scholarship)

**M.Sc.** (2009)  
Department of Molecular Biology and Biochemistry, Faculty of Sciences, PMAS Arid Agriculture University, Rawalpindi, Pakistan

**BS (Medical Laboratory Technology)** (2007)  
National Institute of Health/University of the Punjab, Lahore, Pakistan. (Gold Medal and Merit Scholarship)

## Courses / Certifications

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- 1. Fellowship in Transfusion Medicine (2013)**  
National Blood Centre, Ministry of Health, Sri Lanka
- 2. Plasma Fractionation and Nucleic Acid Testing (2011)**  
Sanquin Blood Supply Foundation, The Netherlands
- 3. Fundamentals of Epidemiology (2012)**  
London School of Hygiene and Tropical Medicine (LSHTM), London
- 4. Quality Management and Aphaeresis (2011)**  
German Red Cross BDS-East, Federal Republic of Germany
- 5. Strengthening Leadership and Governance of Blood Transfusion Services (2019)**  
Iranian Blood Transfusion Organization, Iran.
- 6. Blood Donor Management (2016)**  
World Health Organization, Amman, Jordan
- 7. Scientific Communication -- Presenting Scientific Data Effectively (2010)**  
CDC Atlanta, USA and Field Epidemiology and Laboratory Training Programme
- 8. Postgraduate Diploma in Public Health (2009)**  
Pakistan Institute of Modern Studies, Pakistan
- 9. Knowledge Management and Organizational Development (2012)**  
Pakistan Institute of Management, Ministry of Industries, Government of Pakistan
- 10. Accreditation of Medical Labs - ISO 15189 (2009)**  
Pakistan National Accreditation Council, Ministry of Science & Technology, Government of Pakistan
- 11. Basic Haematology (2009)**  
Department of Pathology, Pakistan Institute of Medical Sciences (PIMS) Islamabad, Pakistan

**12. Blood Transfusion Basics (2007)**

Husaini Institute of Haematology, Karachi, Pakistan

**13. Technical English Writing (2012)**

Faculty of Social Sciences, Air University, Islamabad, Pakistan

| Date from - Date to  | Location           | Company   | Position                  | Description  |
|----------------------|--------------------|---|---------------------------|--|
| 04/2023 – to date    | Pakistan           | Islamabad Medical and Dental College  | Assistant Professor / HOD | <ul style="list-style-type: none"> <li>Administrative tasks</li> <li>Teaching assignments</li> <li>Member, Institutional Review Board</li> <li>Member, Academic Council</li> <li>Member, IMDC Research Forum</li> </ul>  |
| 09/2021 – to 03/2023 |                    | Regional Blood Centre Peshawar  | Consultant                | <ul style="list-style-type: none"> <li>Providing technical assistance in staff capacity building</li> <li>Supervising the translation of basic research in transfusion medicine</li> </ul>   |
| 03/2020 – to 08/2021 | Pakistan           | Department of Biosciences, International Islamic University, Islamabad  | Assistant Professor       | <ul style="list-style-type: none"> <li>Teaching BS and MPhil Biosciences</li> <li>Supervising BS, MPhil and PhD students</li> </ul>  |
| 06/2013 – 02/2020    | Pakistan           | Safe Blood Transfusion Programme and Islamabad Blood Transfusion Authority (IBTA), Ministry of National Health Services, Pakistan | Technical Advisor         | <ul style="list-style-type: none"> <li>Co-authored the <b>National QC Guidelines</b> for Transfusion Medicine</li> <li>Co-authored the National Blood Policy and Strategic Framework 2014-20 in consultation with national and international experts and facilitated the consensus building workshops in May and June 2014</li> <li><b>Managing/leading</b> a team of experts (inspectors) for monitoring and evaluation of BTS in Islamabad and provinces</li> <li><b>Supervising</b> a focal point of Pakistan Haemovigilance Network (PHN) in SBTP</li> <li>Served as Secretary, Organizing Committee, XIth <b>Annual Conference</b> of Asian Association of Transfusion Medicine, October 9-11, 2015, Islamabad, Pakistan</li> <li>Member of the Task Force on Regulation working under the Ministry of National Health Services, Pakistan</li> <li>Development of an <b>inspection tool</b> for the BTAs inspection</li> <li>Conduction of <b>field inspections</b> in order to ensure, on a documented basis, that Blood Establishments fully adhere to standards</li> <li><b>Strengthening of health systems</b> through <b>capacity building</b> of professionals (in public and private sector hospitals) and implementation of <b>regulatory framework</b></li> <li><b>Data collection</b> and reporting on adverse reactions/events as part of haemovigilance in close coordination with monitoring officers</li> <li>Contribution to the formulation of <b>technical regulations</b> and/or amendment through field observations</li> <li>Operationalization and strengthening the Provincial Blood Transfusion Authorities in Balochistan, AJK, Sindh, KP.</li> <li>Filed inspections in provinces with Provincial Blood Inspectors.</li> <li>Facilitating capacity building workshops, seminars, etc.</li> </ul> |
| 05/2016 to 12/2016   | Tunisia and Jordan | World Health Organization   | Temporary Advisor         | <ul style="list-style-type: none"> <li>Workshop on BTS during humanitarian crisis</li> <li>Management of blood programmes</li> <li>Haemovigilance</li> </ul>   |
| 11/2016 to 12/2019   | Pakistan           | EPOS Health Management, Germany   | Short Term Consultant     | <ul style="list-style-type: none"> <li>Technical support to provincial counterparts for operationalization of Regional Blood Centres.</li> </ul>   |

| Date from - Date to | Location  | Company   | Position  | Description  |
|---------------------|-----------|---|---|--|
| 10/2013 – 12/2013   | Sri Lanka | National Blood Transfusion Service(NBTS), Ministry of Health, Sri Lanka | Post-graduate trainee   | <ul style="list-style-type: none"> <li>• Involvement in the routine operations of the NBTS</li> <li>• Coordination with National Haemovigilance Unit for data collection and monitoring of adverse events</li> <li>• Working in Immuno-haematology, HLA and QC Laboratory</li> </ul>   |
| 10/2010 – 04/2013   | Pakistan  | GIZ Health Programme-GFA Medica   | Technical Advisor   | <p><u>GIZ Safe Blood Transfusion Project:</u> The assignment was related to an improved governance of the system by providing expert guidance.</p> <ul style="list-style-type: none"> <li>• Development of '<b>Functional Briefs</b>' for Regional Blood Centres and Hospital Blood Banks in Pakistan</li> <li>• Management and coordination of BTS staff in Provinces</li> <li>• Contributed to the <b>organizational development</b> of National and Provincial Blood Transfusion Programmes and Blood Transfusion Authorities</li> <li>• Conduction of <b>advocacy sessions</b> with Ministry/Departments of Health to <b>sensitize and strengthen</b> them on the new blood safety reforms and the new role of Ministry/Departments of Health after 18<sup>th</sup> amendment to the constitution (devolution of health sector)</li> <li>• Formulation of <b>Blood Safety Acts/Ordinances</b> for the new BT system</li> <li>• Formulation of '<b>National Blood Donor Policy</b>'</li> <li>• Implementation of nationwide Knowledge, Attitude and Practice (<b>KAP</b>) survey on blood donation</li> <li>• <b>Capacity building</b> of BT professionals related to <b>management functions</b></li> <li>• Advising on strategies to promote the voluntary non-remunerated blood donation systems, including promotion and sensitization of potential donors</li> <li>• Conduction of <b>training workshops</b> on regulatory leadership, systems reforms, clinical use of blood, optimal blood bank processes and voluntary blood donation</li> <li>• Cooperation with private-sector establishments in the blood transfusion services in relation to uniform regulations and to have <b>public-private partnership</b></li> </ul> |
| 09/2009 – 09/2010   | Pakistan  | National AIDS Control Programme, Ministry of Health, Pakistan           | Research Officer and Focal Person Blood Transfusion Programme | <p><u>National AIDS Control Programme:</u></p> <ul style="list-style-type: none"> <li>• Developed the National HIV Testing Strategy for Pakistan</li> <li>• Training and Education of Health Care and Public Health Workers</li> <li>• Supervising the National HIV Referral Laboratory - a team of 4 Medical Technologists and 2 Laboratory Technicians</li> <li>• Reference Testing, Screening and Diagnostic Testing of HIV</li> <li>• Co-ordination in preparation and approval of the PC-1s for the National Blood Transfusion Services (NBTS) Project</li> <li>• The integrated data management of Blood Transfusion from all over the country by coordinating with the Provincial BT Managers.</li> </ul>   |

| Date from - Date to | Location | Company  | Position   | Description  |
|---------------------|----------|--|--|--|
| 06/2004 – 08/2009   | Pakistan | Pakistan Institute of Medical Sciences (PIMS), Ministry of Health, Islamabad | Medical Lab Technologist / Lecturer<br>Medical Lab. Sciences | <ul style="list-style-type: none"> <li>Quality Control maintenance of the Blood Bank</li> <li>Performing ELISA for HBV, HCV and HIV</li> <li>Cross Matching and Grouping on Gel Technology</li> <li>Blood Components Preparation</li> </ul> Teaching the following subjects: <ul style="list-style-type: none"> <li>Haematology</li> <li>Blood Banking/Transfusion Medicine</li> <li>Medical Instrumentation</li> <li>Clinical Biochemistry</li> </ul> |

## Workshops Organized/Facilitated

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I have gained a very rich experience over the last few years in organizing large international, national level seminars, hand-on workshops, and consultations. So far I have organized/facilitated over 150 such events across the country supported by the Government of Pakistan and international partners including GIZ, WHO Pakistan, WHO EMRO, ISBT, AATM.

## Workshops Attended (National and International)

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Over the past 18 years, I have attended more than 30 hands-on workshops both nationally and abroad in the field of transfusion medicine, and medical laboratory sciences.

## Membership in Professional Societies

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- **Member**, International Society of Blood Transfusion (ISBT)
- **Member**, The Science Advisory Board, USA
- **Member**, American Association of Blood Banks (AABB)
- **Founding President**, South Asian Association of Medical Laboratory Scientists (SAAMLS)
- **Governing Council Member**, Asian Association of Transfusion Medicine (AATM)
- **Member**, International Society for Infectious Diseases (ISID)
- **Founding Secretary General**, Pakistan Society of Blood Transfusion (PSBT)
- **Member**, Pan-American Society for Clinical Virology (PASCV)
- **Member**, e Health Association of Pakistan (eHAP)
- **Founding Vice President**, Pakistan Association of Medical Laboratory Sciences (PAMLS)
- **Associate Member**, International Federation of Infection Control (IFIC)
- **Associate Member**, Infectious Diseases Society of Pakistan (IDSP)

## Honorary Positions

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### Technical Expert

Islamabad Healthcare Regulatory Authority, Ministry of National Health Services, Regulations & Coordination, Islamabad

### Technical Assessor

Pakistan National Accreditation Council, Ministry of Science and Technology, Islamabad

### Advisor and Chair

Board of Certification Pakistan, American Society for Clinical Pathology (ASCP)

### Editor

- Journal of HIV and STD Research, Chicago IL, USA

- Journal of Public Health and Biological Sciences, Pakistan
- Journal of Advances in Legal Medicine, Spain
- Medical Review; Medical Current Affairs Magazine, Pakistan
- Monthly e-Newsletter, Safe Blood Transfusion Programme, Government of Pakistan, 2010-19
- Quarterly e-Newsletter, Asian Association of Transfusion Medicine, 2014-2016

### Reviewer

- Journal of Immunology Research (IF 4.81; CS 5.60)
- Diagnostic Microbiology & Infectious Disease (IF 2.80; CS 4.6)
- Journal of Blood Medicine (CS 2.7)
- Annals of Pak Inst Med Sci
- PLOS One (IF 3.24; CS 5.2)
- Global Journal of Transfusion Medicine
- Journal of Multidisciplinary Healthcare (IF 2.40; CS 2.3)
- RADS Journal of Biological Research & Applied Sciences
- Journal of Haematology and Stem Cell Research
- Advances in Medical Education and Practice
- Pakistan Journal of Pharmaceutical Sciences (IF 0.80)
- World Journal of Gastroenterology (IF 5.74)
- World Journal of Virology
- BMC Journal of Medical Sciences
- INQUIRY: The Journal of Health Care Organization, Provision, and Financing (IF 1.73; CS 0.90)
- SAGE Open Medicine
- African Journal of Laboratory Medicine
- International Journal of General Medicine (IF 2.4)
- Journal of Epidemiology and Global Health (IF 1.71)
- World Journal of Clinical Cases
- HIV/AIDS Research and Treatment - Open Journal
- Iranian Journal of Microbiology (CS 1.7)
- Journal of AIDS and HIV Research
- Asian Journal of Medicine and Health, UK
- NIBD Journal of Health Sciences, Pakistan
- Ethiopian Journal of Health Sciences
- Qeios

### Achievements

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- Research Proposal won 4,972 Euros **Research Grant** from International Society of Blood Transfusion, The Netherlands April 2023.
- Research Proposal won 4,885 Euros **Research Grant** from International Society of Blood Transfusion, The Netherlands October 2022.
- Research Proposal on Immunohaematology won 5,000 Euros **Research Grant** from International Society of Blood Transfusion, The Netherlands November 2018.
- Listed among the **Productive Scientists of Pakistan** in 2017 by the Pakistan Council for Science and Technology, Ministry of Science and Technology, Islamabad.
- The International Society of Blood Transfusion published my biography as a **Young Investigator of the Year** (2015)
- **Harold Gunsen Fellowship** Award for **Young Investigator of the Year** in Transfusion Medicine by the International Society of Blood Transfusion (ISBT), London, UK 2015
- **Harold Gunsen Fellowship** Award for **Young Investigator of the Year** in Transfusion Medicine by the International Society of Blood Transfusion (ISBT), Seoul, Korea 2014
- WHO **Master Trainer** on Transfusion Medicine and Quality Management.
- Research Proposal on Data Management in BTS won 5,000 Euros **Research Grant** from International

- Society of Blood Transfusion, The Netherlands November 2014.
- Merit **Scholarship** for Fellowship in Transfusion Medicine awarded by the Asian Association of Transfusion Medicine (2013)
  - Research Proposal on Club 25 and BDO Network won 5,000 Euros **Research Grant** from International Society of Blood Transfusion, The Netherlands (2013)
  - Research Proposal on Dengue Epidemic won 7,500 Euros **Research Grant** from International Society of Blood Transfusion, The Netherlands (2012)
  - Merit **Scholarship** in M.Phil. degree in the Faculty of Biological Sciences, Quaid-i-Azam University, Islamabad, Pakistan, in 2010.
  - Merit **Scholarship** in B.Sc. Medical Laboratory Technology, from National Institute of Health, Islamabad in 2006.
  - **First Position** in B.Sc. Medical Laboratory Technology Examination 2006, University of the Punjab, Lahore (Gold Medalist)
  - Merit **Scholarship** in F.Sc. Medical Laboratory Technology, from National Institute of Health, Islamabad in 2004.
  - Third Position in Inter-schools Debate Competition in Islamabad 2000.
  - Third Position in Inter-schools Debate Competition in Islamabad 1999.

## Language Skills & Degree of Proficiency

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| <i>Language</i> | <i>Read</i> | <i>Write</i> | <i>Speak</i> |
|-----------------|-------------|--------------|--------------|
| English         | Excel       | Excel        | Excel        |
| Urdu            | Excel       | Excel        | Excel        |
| Punjabi         | Good        | Good         | Excel        |

## Publications

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### Books/Book Chapters/Monologs

1. Zaheer HA, Ahmed S, **Waheed U**, Wazeer A, et al. National Guidelines for Quality Control in Transfusion Medicine (2020). Safe Blood Transfusion Programme, Ministry of National Health Services, Pakistan. 3<sup>rd</sup> Edition. ISBN 978 969 9881 473
2. Akhtar J, Wazeer A, **Waheed U** (2021). Textbook of Microtechniques in Laboratory Medicine. 4<sup>th</sup> ed. Colombo, Sri Lanka. ISBN 9789692352529.
3. Kohorst P, Ahmed R, **Waheed U**, National Steering Committee. National blood donor policy. 1st ed., 2011. National Blood Transfusion Programme, Ministry of Health, Pakistan.
4. **Waheed U**, Saba N, Wazeer A, Qasim Z. (2020). Textbook of Laboratory Techniques in Haematology and Transfusion Medicine. 3rd ed. Islamabad, Pakistan, ISBN 978 969 23525 0 5
5. Sibinga CT, Kohorst P, Ahmed R, **Waheed U**. Functional brief for regional blood centre. 2011; 1st ed. National Blood Transfusion Programme, Ministry of Health, Islamabad, Pakistan, ISBN 978 969 9881 08 4.
6. **Waheed U**. Research Planning and Scientific Writings. 2<sup>nd</sup> Ed. 2020 ISBN 978 969 9881 49 7
7. Zaheer HA, **Waheed U**, Tahir S, Nasir K. Handbook of Clinical Transfusion Practice (2018). Safe Blood Transfusion Programme, Ministry of National Health Services, Pakistan. 2<sup>nd</sup> Edition. ISBN 978 969 9881 350
8. **Waheed U**. Research and Scientific Writings. 1<sup>st</sup> Edition. SAAMLS 2017. ISBN 978 969 9881 34 3
9. Zaheer HA, Ahmed S, **Waheed U**, Wazeer A. National Guidelines for Quality Control in Transfusion Medicine (2017). Safe Blood Transfusion Programme, Ministry of National Health Services, Pakistan. 2<sup>nd</sup> Edition. ISBN 978 969 9881 29 59
10. Zaheer HA, **Waheed U**, Ansari MA. Disaster Management in Blood Transfusion Services. Chapter 15: A Textbook on Laboratory and Clinical Transfusion Medicine, Volume 1: Organization and Management. 2016 1<sup>st</sup> Edition, Nova Science Publishers ISBN 978-1-63485-004-9
11. Zaheer HA, **Waheed U**, Ansari A. Disaster Management in Blood Transfusion Services. SBTP, 1st Edition, 2015 ISBN 978-969-9881-21-3
12. Zaheer HA, **Waheed U**, Azmat M. Abstract Book for XIth Annual Conference of Asian Association of Transfusion Medicine. Oct 9-11, 2015\_\_ISBN 978 969 9881 23 2



13. **Waheed U**, Arshad M, Farooq A, Saba N, Wazeer A. Handbook of Medical Laboratory Instrumentation. 2nd ed. 2019; Islamabad, ISBN 978 969 23484 0 9
14. Salam A, Saeed M, Wazeer A, **Waheed U**. Textbook of Serology in Laboratory Medicine. 1st ed. 2021; Colombo, Sri Lanka; ISBN 9789692352512
15. **Waheed U**, Ansari A, Ullah A, Ali I. Clinical Microbiology. 2013, 1st Edition, ISBN 978-969-9880-02-5
16. **Waheed U**. Laboratory Techniques in Haematology and Blood Banking. 2013, 1st Edition, ISBN 978-969-9880-00-1
17. **Waheed U**, Ansari A, Ahmad B, Malik MA. Serological Techniques in Immunology (2012). PublishAmerica Baltimore, LLLP. ISBN 9781462694129
18. Waheed U. Evaluation and Diagnostic Effectiveness of HIV Kits in Comparison with Western Blot for the Diagnosis of HIV/AIDS in Pakistani Population. MPhil Thesis, Quaid-i-Azam University, Islamabad, 2011.
19. Zaheer HA, **Waheed U**, Abdella YE, et al. National Blood Policy and Strategic Framework (2020-25), Safe Blood Transfusion Programme, Ministry of National Health Services, Government of Pakistan. ISBN 978 969 9881 44 2
20. Zaheer HA, **Waheed U**, Sibinga CS, et al. National Blood Policy and Strategic Framework (2014-20). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 18 3
21. Zaheer HA, **Waheed U**, IBTA Board of Governors. Inspection Checklist for Blood Banks (2014). Islamabad Blood Transfusion Authority, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan.
22. Zaheer HA, **Waheed U**, and IBTA Task Force. Inspection Checklist for Blood Banks (2018). Islamabad Blood Transfusion Authority, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan.
23. Cardenas JM, Kohorst P, **Waheed U**, Zaheer HA. Quality Manual for Blood Transfusion Services (2016). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan.
24. Kohorst P Anjum U, **Waheed U**, et al., National Manual of Standard Operating Procedures for Blood Transfusion Services (2016). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 04 6
25. Kohorst P Anjum U, **Waheed U**, et al., National Manual of Standard Operating Procedures for Blood Transfusion Services (2016), URDU version. Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 04 6
26. Solum J, Usman J, Moiz B, Kohorst P, **Waheed U**, Zaheer HA. Training Curricula for Transfusion Medicine (2015). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan.
27. Kruzik H, Kohorst P, Knels R, **Waheed U**, Zaheer HA (2013). Functional Brief for Management Information System in Blood Transfusion Services. Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 04 7
28. Dobrota AM, Kohorst P, Aljaz J, **Waheed U**, Zaheer HA. Functional Brief for Blood Transfusion Authority (2013). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 02 2
29. Khattak MF, Raziq F, Salamat N, Khan S, Kohorst P, **Waheed U**, Zaheer HA. National Standards and Guidelines for Blood Banks and Transfusion Services (2013). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 05 3
30. National Task Force. Guidelines for the Appropriate Clinical Use of Blood (2013). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 03 9
31. Zaheer HA, **Waheed U**, et al., Country Strategy for Blood Donation Screening of Transfusion Transmissible Infections (2013). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan.
32. **Waheed U**, Kohorst P, Zaheer HA. Inventory of Blood Donor Organizations of Pakistan (2012). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 00 8
33. Kohorst P, Janjua RA, **Waheed U**, Zaheer HA. Functional Brief for Hospital Blood Banks (2011). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 06 0

34. Dobrota AM, Aijaz J, Anjum U, Maqbool A, **Waheed U**, Kohorst P, Zaheer HA. Field Manual for Blood Bank Inspectors (2016). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan.

### **Acts and Regulations**

1. SBTP and GIZ/GFA Technical Cooperation Team. The Khyber Pakhtunkhwa Government Gazette. The Khyber Pakhtunkhwa Blood Transfusion Safety Regulations, 2017. Department of Health, Government of Balochistan.
2. SBTP and GIZ/GFA Technical Cooperation Team. The Sindh Government Gazette. The Sindh Safe Blood Transfusion Act, 2017 (Act XXXI of 2017). Provincial Assembly of the Sindh.
3. SBTP and GIZ/GFA Technical Cooperation Team. The Khyber Pakhtunkhwa Government Gazette. The Khyber Pakhtunkhwa Blood Transfusion Safety Authority Act, 2016 (Act No. XXV of 2016). Khyber Pakhtunkhwa Provincial Assembly Secretariat.
4. SBTP and GIZ/GFA Technical Cooperation Team. The Punjab Government Gazette. The Punjab Blood Transfusion Safety Act, 2016 (Act XLVI of 2016). Provincial Assembly of Punjab.
5. SBTP and GIZ/GFA Technical Cooperation Team. Inventory of Blood Transfusion Services Acts and Ordinances (1997-2004) of Pakistan, 2012. Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 12 1

### **Reports**

#### **GFA-GIZ Progress Review Reports**

1. Final Report GFA-GIZ. Safe Blood Transfusion (2013). Project no.: 81153945/09.2176.7-001.00
2. Annual Progress Report GFA-GIZ. Safe Blood Transfusion (2012). Project no.: 08.2078.7-001.00
3. Inception Report GFA-GIZ. Safe Blood Transfusion (2010). Project no.: 08.2078.7-001.00

#### **Data Collection Reports**

1. Zaheer HA, **Waheed U**, Tahir S, Nasir K. National Blood Banks Data Collection Report (2018). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 43 5
2. Zaheer HA, **Waheed U**, Nasir K, Tahir S. National Blood Banks Data Collection Report (2017). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 42 8
3. Zaheer HA, **Waheed U**, Nasir K, Tahir S. National Blood Banks Data Collection Report (2016). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 38 7
4. Zaheer HA, **Waheed U**. National Blood Banks Data Collection Report (2015). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan.

#### **Annual Reports – Safe Blood Transfusion Programme**

1. Zaheer HA, **Waheed U**, Nasir K, Tahir S. Annual Report Safe Blood Transfusion Programme (2019). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 45 9
2. Zaheer HA, **Waheed U**, Tahir S, Nasir K. Annual Report Safe Blood Transfusion Programme (2018). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 40 4
3. Zaheer HA, **Waheed U**, Tahir S, Nasir K. Annual Report Safe Blood Transfusion Programme (2017). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 36 7
4. Zaheer HA, **Waheed U**, Wazeer A. Annual Report Safe Blood Transfusion Programme (2016). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881
5. Zaheer HA, **Waheed U**, Hussain SS, Qamar RW. Annual Report Safe Blood Transfusion Programme (2015). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 24 4
6. Zaheer HA, **Waheed U**. Annual Report Safe Blood Transfusion Programme (2014). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 19 0

7. Zaheer HA. **Waheed U.** Annual Report Safe Blood Transfusion Programme (2013). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan.
8. Zaheer HA. **Waheed U.** Annual Report Safe Blood Transfusion Programme (2012). Safe Blood Transfusion Programme, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan.
9. Zaheer HA. **Waheed U.** Annual Report National Blood Transfusion Programme (2011). National Blood Transfusion Programme, Ministry of Health, Government of Pakistan.
10. Zaheer HA. **Waheed U.** Annual Report National Blood Transfusion Programme (2010). National Blood Transfusion Programme, Ministry of Health, Government of Pakistan.

#### **Annual Reports – Islamabad Blood Transfusion Authority**

1. Zaheer HA. **Waheed U,** Nasir K, Tahir S. Annual Report Islamabad Blood Transfusion Authority (2019). Islamabad Blood Transfusion Authority, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 46 6
2. Zaheer HA. **Waheed U,** Nasir K, Tahir S. Annual Report Islamabad Blood Transfusion Authority (2018). Islamabad Blood Transfusion Authority, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 37 4
3. Zaheer HA. **Waheed U,** Nasir K, Tahir S. Annual Report Islamabad Blood Transfusion Authority (2017). Islamabad Blood Transfusion Authority, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 37 4
4. Zaheer HA. **Waheed U.** Annual Report Islamabad Blood Transfusion Authority (2016). Islamabad Blood Transfusion Authority, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 30 5
5. Zaheer HA. **Waheed U.** Annual Report Islamabad Blood Transfusion Authority (2015). Islamabad Blood Transfusion Authority, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 27 5
6. Zaheer HA. **Waheed U.** Annual Report Islamabad Blood Transfusion Authority (2013-14). Islamabad Blood Transfusion Authority, Ministry of National Health Services, Regulations & Coordination, Government of Pakistan. ISBN 978 969 9881 20 6

#### **Mission Reports**

1. Mission Report – Saeed Ahmed and Usman Waheed. 3-Day Professional Development and Intensive Training Course on Immunohaematology (2018).
2. Mission Report – Usman Waheed. Short Study on Procurement of Complex Regional Blood Centre Equipment and Consumables (2018).
3. Mission Report – Javaid Usman and Usman Waheed. Start-up Support to the Phase 1 RBCs (2018).  
Mission Report – Javaid Usman and Usman Waheed. Assessment of Hospital Blood Banks Proposed for Conversion to RBCs (2017).

#### **Workshop/Seminar Reports**

1. SBTP Seminar Report. Quality Audit for the Auditors of Thalassaemia Centre Blood Banks (2018).
2. SBTP Workshops Report. World Hepatitis Day Celebrations (2018).
3. SBTP and WHO National Consultation Report. National Consultation of Blood Transfusion Authorities (2018).
4. SBTP and WHO National Consultation Report. National Consultation on Blood Regulation (2017).
5. SBTP Seminar Report. Transfusion Issues in Thalassaemia Management in Pakistan (2017).
6. SBTP and WHO National Consultation Report. National Consultation on Blood Donor Management (2017).
7. SBTP and WHO Workshops Report. National Consultations of PakBDO Association (2016).
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#### **Frequently Asked Questions (FAQs)**

1. 10 Facts on Blood Donation
2. Introduction to Hepatitis B (Urdu)
3. Introduction to Hepatitis C (Urdu and English)
4. Platelets Aphaeresis
5. Voluntary Blood Donations (Urdu and English)
6. What is AIDS
7. What is Anaemia
8. What is Hepatitis

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12. Zaheer HA, **Waheed U**. AATM E-Newsletter (Sept to Dec 2014) Vol 5, Issue 3. Asian Association of Transfusion Medicine.
13. As Managing Editor, published **108** monthly E-Newsletters (Dec 2010 to Dec 2019) of Safe Blood Transfusion Programme, Ministry of National Health Services, Government of Pakistan

## Scientific Papers

1. Diversity of blood-borne human viruses (HCV, HBV, HDV, HEV and HPgV-2) in blood donors in Pakistan (ongoing study)
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### **Conference Papers (Abstracts)**

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74. Ahmed I, Farooq N, **Waheed U**. Evaluation of T-SPOT.TB Assay Sensitivity. 2<sup>nd</sup> Annual Conference of Pakistan Association of Medical Laboratory Sciences at Allama Iqbal Medical College, Lahore from Feb 27-28, 2011
75. **Waheed U**, Chishti HM, Zaheer HA. Evaluation of General Perception regarding Biosecurity and Biosafety among Medical Technologists/Technicians working in Diagnostic Laboratories of Rawalpindi and Islamabad. First Annual Conference, Pakistan Association of Medical Laboratory Sciences (PAMLS), Faisalabad, May 16, 2010.
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77. Mukhtar M, **Waheed U**, Abbasi S, Qasim M, Parveen Z, Zaheer HA. Perception of University Students about Acquired Immuno Deficiency Syndrome (AIDS) in Twin Cities (Islamabad, Rawalpindi) of Pakistan. Annual 33<sup>rd</sup> Conference, Pakistan Association of Pathologists, PIMS, Islamabad, Nov 6-8, 2009.
78. Farooq N, **Waheed U**, Ahmed K, Uppal R. Study of Enterobacteraceae producing Extended Spectrum Beta Lactamases (ESBLs). Annual 33<sup>rd</sup> Conference, Pakistan Association of Pathologists, PIMS, Islamabad, Nov 6-8, 2009.

### Newspaper Articles

1. Hepatitis and Blood Safety 2023
2. World Medical Laboratory Professionals Week Medical Review 2023
3. Indexation: Quality and Impact Measures of a Scientific Journal, Medical Review 2020
4. Changing Dynamics of Medical Laboratory Technology in Pakistan, Business Recorder 2018
5. Mushrooming of Clinical Laboratories in Pakistan, 2017

6. Biosafety in Pathology Laboratories, July 2016
7. Evaluation of Research Quality; The Impact Factor Game, 2012
8. Plasma Fractionation; Pakistan's Perspective, 2012
9. T-SPOT.TB Assay; A Revolution for Tuberculosis Screening in Pakistan, 2012
10. HIV/AIDS Epidemic in Children; A Challenge for PMTCT Services, 2010
11. Artificial Blood and Biotechnology; Finding Alternatives to Blood Transfusion, 2011

## **Students Supervised/Under Supervision**

### **Akhlaaq Wazeer (2021-24)**

PhD Microbiology

Thesis title: Molecular characterization of HEV in Pakistan

### **Muhammad Saeed (2023-26)**

PhD Biotechnology

Thesis title: National-level evaluation of screening kits for TTIs

### **Dr. Zahida Qasim (2021-24)**

PhD Biotechnology

Thesis title: Implementation of Haemovigilance System in AJK, Pakistan

### **Muhammad Saeed (2020-22)**

MPhil Biological Sciences

Thesis title: Formulating reference ranges of fasting plasma glucose and renal function parameters in Islamabad Capital Territory, Pakistan

### **Muhammad Ansar (2019-21)**

MPhil Biological Sciences, International Islamic University, Islamabad.

Thesis title: Seroprevalence of Hepatitis E virus in pregnant women

### **Muhammad Wajahat (2018-19)**

BS (Hons) Medical Laboratory Technology, King Edward Medical University, Lahore.

Thesis title: Prevalence of Syphilis in blood donors of tertiary care center of Islamabad, Pakistan.

### **Akhlaaq Wazeer (2017-18)**

MPhil Biological Sciences, International Islamic University, Islamabad.

Thesis title: Molecular Epidemiology of Tuberculosis in Pakistan.

### **Sadaf Moneeba (2015-16)**

MPhil Biology, PMAS Arid Agriculture University, Rawalpindi.

Thesis title: Evaluation of HBcAb and HBsAg Diagnostic Tests in Comparison with Nucleic Acid Testing for the Diagnosis of Hepatitis B Virus

### **Nosheen Basharat (2015-16)**

MPhil Biology, PMAS Arid Agriculture University, Rawalpindi.

Thesis title: Prevalence of Torque Teno Virus in Blood Donors of Islamabad

### **Sadia Ashraf (2015-16)**

MPhil Biology, PMAS Arid Agriculture University, Rawalpindi.

Thesis title: Alloimmunisation in multi-transfused thalassaemia patients.

### **Atta ur Rehman Khan (2014-15)**

MPhil Biotechnology, International Islamic University, Islamabad.

Thesis title: Evaluation and diagnostic effectiveness of Syphilis screening assays in Pakistan.

### **Hashim Raza (2014-15)**

BS (Hons) Medical Laboratory Technology, King Edward Medical University, Lahore.

Thesis title: Prevalence of HIV/AIDS and Syphilis among High Risk Groups in District Rawalpindi.

### **Maryam Zafar (2012-13)**

Masters in Public Health, Sarhad University of Science & Information Technology, Peshawar.

Thesis title: Knowledge attitude and practices regarding blood donation among medical and non-medical students of Mirpur, AJK