

CURRICULUM VITAE

Dr. Mohammad Raihan Sajid

Senior Lecturer
Department of Pathology and Pharmacology
Alfaisal University
Riyadh, Saudi Arabia

PERSONAL DETAILS

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| E-MAIL | raihan.sajid@gmail.com |
| TELEPHONE | 00966559441589 |
| PMDC REGISTRATION # | 28484-S |
| CPSP FELLOWSHIP # | 03-HEM-035460 |
| DATE OF BIRTH | 20th April 1972 |
| NATIONALITY | Pakistani |
| MARITAL STATUS | Married |

PROFESSIONAL EDUCATION AND QUALIFICATIONS

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| POSTGRADUATE CERTIFICATION | FCPS Haematology College of Physicians and Surgeons Pakistan November 2003 |
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| PRIMARY MEDICAL CERTIFICATE | MBBS Dow Medical College, University of Karachi Pakistan (1989-1994) |
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EXPERIENCE

- Working as Senior Lecturer Department of Pathology and Pharmacology, Alfaisal university, Riyadh Saudi Arabia since September 25th 2011 to date
- Served as **Assistant Professor**, Department of Pathology, Aga Khan University Hospital (“AKUH”) from 1st July, 2008 – 21st September 2011
- Promoted to **Lecturer II (equivalent to Assistant Professor)** in the Department of Pathology, The Aga Khan University Hospital on 1st January 2008
- Promoted to **Lecturer (equivalent to Senior Instructor)** in the Department of Pathology, The Aga Khan University Hospital on 1st January 2006
- Worked as **Pathologist** at Stat Laboratories Lahore of The Aga Khan University Hospital from 1st November 2003 till 31st December 2005
- Honorary Consultant at Fatimid Thalassemia Foundation Lahore since March 2005 till June 2008
- Completed **Residency training in Hematology**, Dept of Pathology, The Aga Khan University Hospital, Karachi from March 01, 1999 to October 2003.
- Worked as Administrator and In-charge Dr Essa’s Laboratory (Dow Branch) from February 1996 to Feb 1999. Job responsibilities included day to day running of the laboratory with overall administration and total quality management. Actively participated in ISO 9001:2000 certification processes. Also undertook planning and execution of diabetes awareness camps and visits to area clinics, hospital and doctors.

- Completed training in Clinical Pathology according to the requirement for MCPS from Dept of Pathology, Dow Medical College, Karachi from 1st November 1997 to 31st October 1998.
- Worked as a House Officer in the Dept of Medicine and Surgery, Civil Hospital, Karachi from 22nd Jan 1995 to 21st Jan 1996.

Foreign training and Experience:

- 1) Training in **cryopreservation of Stem cells and Cord blood** at the Sultan Qaboos University Hospital Muscat Oman from 29-06-2009 till 16-07-2009
- 2) Two weeks of preceptorship on Chronic myeloid leukemia and under hematological malignancies at **Hammersmith Hospital London UK** from 19th July till 31st July 2010
- 3) Two weeks of training at stem cell lab **Anthony Nolan trust Nottingham University Nottingham, UK** from 03-10-2010 till 12-10-2010

RESPONSIBILITIES:

Alfaisal University, Riyadh, Saudi Arabia

Academic activities

- Teaching of Undergraduate students through lectures and problem based learning sessions of phase I and phase II students
- Lectures in Haematology/oncology block, renal block and endocrine block. Lectures in General pathology course.
- Appointed as assessment organizer of the department and responsible for preparation and setting of examination of Phase II students. Involved in the development and modification of MCQs and SAQs of various blocks and courses
- Director of Hematology /oncology block
- PBL coordinator for phase II and head of PBL development committee. Development of PBL cases for all blocks
- Checking of examination papers
- Active participation in PBL curriculum and contributed in development of learning objectives, tutor guides, clinical cases and practicals that integrates concepts of hematology with other disciplines and sessions on facilitation skills.
- Students evaluations are consistently **Excellent and Outstanding** (a score of 10 on a scale of 1-10)

List of Publications:

1. "Use of I/V anti-D in immune thrombocytopenic purpura as splenectomy sparing therapy" (Dissertation) Mohammad Raihan Sajid. Approved by College Of Physicians and Surgeons, Pakistan.
2. Use of Intravenous anti-D in patients with refractory and relapsed Immune Thrombocytopenic Purpura. R. Sajid, S. N. Adil, Z. Fadoo, S. Sabir, M. Khurshid. JPMA 53:537:2003.
3. Fludarabine induced thrombocytopenia in a patient with CD5 positive B cell chronic lymphocytic leukaemia. M Usman, S.N.Adil, R.Sajid and M. Khurshid:Vol 53,No.10 JPMA Oct 2003
4. Frequency of Hereditary Thrombophilia: An AKUH experience. S.Khalid, R.Sajid, S.N.Adil and M. Khurshid. JPMA 54:427;2004

5. Hematologic and Cytogenetic findings in eleven Chronic Myelogenous Leukemia Patients treated with Imatinib Mesylate at a Tertiary Care Hospital M. Usman, G. N. Kakepoto, S. N. Adil, R. Sajid, S. Arain, M. Khurshid. JPMA 54:17; 2004.
6. Polycythemia Vera and Idiopathic Erythrocytosis: Comparison of Clinical and Laboratory Parameters
M. Usman, F. Bilwani, G. N. Kakepoto, S. N. Adil, R. Sajid, M. Khurshid
Department of Pathology, The Aga Khan University Hospital, Karachi JPMA May 2004;54(5):249-51.
7. Chronic ITP: Analysis of various factors at presentation, which predict failure to first line treatment and their response to second line therapy. N Naz , S. Adil, R. Sajid, M. Usman ,B. Moiz, G N Kakepoto, M. Khurshid JPMA Mar 2007 57 (3) 126-8
8. Calcium Oxalate crystals in the bone marrow published British Journal of Hematology Vol 146, issue 1 July 2009
9. Oral Iron chelation Therapy with Deferiprone in patients with Thalassemia Major JPMA Volume 59 (6) June2009
10. Inherited bleeding disorders.an audit. Indian Journal of Pathology and Microbiology Jan2010
11. Pleural fluid plasmacytosis in a patient with plasma cell leukemia. Turk J Hematol 2010; 27: 135-6
12. Involvement of bone marrow with Intravascular large B cell Lymphoma published in Hematology Oncology and stem cell therapy 2010;3(1) 39-41
13. Therapeutic outcomes of older patients with acute myeloid leukemia. Saudi Med J 2010;Vol.31(5):533-538
14. Clinicopathologic spectrum of Waldenström's macroglobulinemia: a single center experience.Indian J Pathol Microbiol 2010 Jul-Sep;53(3):490-3.
15. Overwhelming bone marrow Leishmaniasis Turk J Hematol 2011; 28: 357-8
16. Antioxidant status in β Thalassemia Major: A single centre study. Published in Indian J Pathol Microbiol. 2011 Oct-Dec;54(4):761-3

Research Grant:

Awarded research grant for the amount of SAR 37,385 for research in T315i mutation in Chronic myeloid leukemia (*Internal Grant Project No. 313190109122. Effective from 1 Sept 2012 till 31 August 2013*)

Continuing Education:

I am presently admitted in **University of Dundee UK** for diploma in Medical education.
I am presently doing this **distance learning course**.

AGHA KHAN UNIVERSITY HOSPITAL (“AKUH”):

ACADEMIC ACTIVITIES:

- Teaching of junior residents, technologists and trainee technologists of the Clinical Laboratory including formal lectures, journal clubs, slide sessions, problem based learning and evidence based medicine at The Aga Khan University Hospital Karachi.
- Teaching of undergraduate medical students rotating through the hematology section.
- Training of Pathologists for various stat laboratories of The Aga Khan University
- Member of Blood and Inflammation module committee of year 1 M.B.B.S in problem based learning and facilitator of PBL
- Co chair of Introductory module of the year 1 undergraduate teaching programme
- Evaluation and assessment of Residents of hematology in six monthly tests and promotion exams
- Conduction of FCPS Part II exam in AKUH

Details of Teaching contribution:

- Active involvement in phase III **Hematology module**. I participate in the delivery of formal lectures, conducting interactive sessions and tutorials

Problem based learning (PBL)

- Active participation in PBL curriculum at AKU as a **Member of Blood, Inflammation, Immunity and Neoplasia Module Committee** (2008-2009), and contributed in development of learning objectives, tutor guides, clinical cases and practicals that integrates concepts of hematology with other disciplines and sessions on facilitation skills.
- Co chair, Co ordinator and facilitator of the Year 1 Introductory Module.
- Active participation in **wrap up sessions** of PBL
- Involved in the development and modification of Hematology MCQs and SEQs of integrated nature
- Students evaluations are consistently **Excellent and Outstanding** (a score of 5 on a scale of 1-5)

Trainee technologist program:

I also actively participate in the teaching of trainee technologist program. In this program around 40 technologists are inducted every year for training in various sections of clinical laboratories and the program comprises of lectures and hands on training.

Medicine Grand Round:

Following topics have been presented:

- 1- Thromboprophylaxis in clinical practice: Evidence Based Medicine, August 2002.

Postgraduate FCPS

Teaching of **ten** residents of section of hematology, department of **Pathology and Microbiology** with formal lectures, journal clubs, slide sessions and evidence based medicine

I was the Sectional representative in **Departmental Residency Committee and residency coordinator for the haematology residency program**

Contributions to FCPS Training Program

- Conducted **FCPS Part II** Hematology Practical Examination at the Aga Khan University in 2008-2010.
- Attended CPSP workshop qualified to be a supervisor and examiner FCPS Hematology.
- Eligible for **supervisorship** in haematology from College of Physicians and Surgeons Pakistan

Sectional Responsibilities in the Department of Pathology and Microbiology

As **Consultant Hematologist**, I provide a state of the art diagnostic laboratory service in Hematology. My section is broadly divided into three subsections.

1. Laboratory Hematology

This sub section is responsible for reporting of peripheral blood films, bone marrow, special stains, Perls iron stain and bone trephines. Reporting of other special tests like hemoglobin electrophoresis and osmotic fragility. Reporting of more than 5000 bone marrow biopsies.

2. Coagulation

This section offers a wide range of tests use in hemostatic inquiry of all in and out patients. Reporting mixing studies, thrombophilia screening; platelet aggregation and other special tests are performed in this section.

3. Blood Banking

Reporting and investigations of all transfusion reactions occurring in the hospital and supervising blood donations and phlebotomies. Attending inquiries and rectifying any discrepancy in reporting.

In the above mentioned sections, there is a wide range of tests available which are in high demand for a definitive diagnosis on samples submitted for the investigation of suspected hematological diseases. I provide clinical advice on hematological diseases to Internists, physicians, and consultants in AKU and across Pakistan.

- Aga Khan University Hospital is a tertiary care hospital with more than 600 beds. We receive samples from both in patients as well as from outpatients through approximately 200 collection units located in all cities across the country. A substantial number of samples are **STAT** samples and this is our responsibility to report those results timely and in efficient manner which we are doing satisfactorily.
- For Quality Assurance, we regularly participate in **external quality control program such as CAP, USA**. This laboratory is certified by **ISO2000** and to **Joint Commission for International Accreditation, USA**. Our performance score on quality indicators remains excellent. Hematology section also acts as a CPSP approved training center for the budding hematologists from all over Pakistan. In hematology, postgraduate residency program is recently upgraded for five years. Currently, hematology section is engaged in the training of ten residents.

Stem Cell laboratory

- Hematopoietic stem cell transplantation or bone marrow transplantation is an established curative treatment modality for many malignant and benign hematological disorders. Although stem cells storage is not essential for marrow transplant but it allows us to electively store the stem cells for future use. In our institute, we have the facility of stem cell transplantation and in near future we are planning to establish stem cell storage laboratory. I am the lead person for this project. Our initial aim is to store hematopoietic stem cells of peripheral blood, bone marrow and umbilical cord.

Glivec International Patient Assistance Program (GIPAP)

Chronic myeloid leukemia is a relatively uncommon hematological malignancy which is characterized by a peculiar cytogenetic abnormality of chromosome number 22 known as Philadelphia chromosome. Initial phase of the disease is usually indolent however with the passage of time, all patients ultimately transformed into aggressive phase. Before the introduction of Imatinib mesylate (Glivec), the median survival was approximately 4 years. Glivec is the first oncology drug developed on the basis of an understanding of how the cancer cell works. Approximately 60-70% of the patients have a major disease response. The expected survival is more than fifteen years who responded to Imatinib.

Glivec is a very expensive drug and **GIPAP** program is design to provide Glivec to patients with Philadelphia positive chronic myeloid leukemia who are not insured or reimbursed and have no other financial recourses. GIPAP is the most generous and patient assistance program developed for a cancer therapy. These patients received Glivec after enrollment at AKU. In the CML clinic, my responsibilities include

- 1- Initial assessment with confirmation of diagnosis
- 2- Initial therapeutic intervention those who presents with very high white cell count
- 3- Enrollment in the GIPAP program
- 4- Monitoring the response of the drug and side effects
- 5- Other treatment options in case of resistant disease.

Approval of Nilotinib at AKU as a 2nd line option for patients resistant to Glivec

Approximately 30-40% of those patients who received Glivec subsequently develop resistance. For this cohort of patients, 2nd generation tyrosine kinase, Nilotinib is advised. At present approximately 100 patients are receiving Nilotinib.

Haematology section

- ❖ Reporting of peripheral blood films, bone marrow, special stains, Perl's iron stain and bone trephines.
- ❖ Reporting of other special tests like Hemoglobin electrophoresis, platelet aggregation and osmotic fragility.
- ❖ Supervising quality control in the department.

OUT PATIENT PROCEDURES:

- ❖ Performing procedures like bone marrow aspirate and trephines, fine needle aspiration and platelet and plasma pheresis. Have performed more than 7000 bone marrow aspiration and biopsies.
- ❖ Performing special procedures of clinical chemistry and microbiology section e.g. Mantoux test, skin scrapings, skin biopsy, Growth hormone stimulation test.

LABORATORY MANAGEMENT:

- Residency coordinator section of Hematology
- Member Departmental Residency Committee (DRC), The Aga Khan University Hospital
- Member OICC (quality initiative and control committee) from October 2008
- Facilitator and resource person Blood and Inflammation Module Year 1 Undergraduate studies
- Co- chair Introductory Module Year 1 Undergraduate studies
- Member Haematology Group Committee, Dept of Pathology, The Aga Khan University Hospital
- Member of task force for Lahore Lab: from august 2005 till July 2006
- Member of Offsite AKU Blood Bank committee November 2008 to date
- Member of organizing committee Annual symposium AKUH 2009 on Water and sanitation

Additional Laboratory Work:

Stat lab Lahore:

- Managing Stat laboratories Lahore and supervising three senior technologists, two staffs technologist and three assistant technologists since November 2003
- Successful installation and running of Automated analyzers i.e. CX-4, Sysmex KX-21, URISCAN, Beckman Coulter Max M, Clinitek 50, Clinitek 500, coagulab 50, Elecsys 2010 and NOVA-4 electrolyte analyzers.
- Performing investigations comprising of total 67 types of tests at Stat Lab Lahore.
- Catering and overseeing 31 collection points all over Punjab
- Performing of outpatient procedures like
- Bone marrow aspirates
- Bone trephine biopsies
- Fine needle aspiration cytology (FNAC)
- Moutoux test
- Pus, ear, eye and throat swabs
- Skin biopsies.
- Conducting continuing medical education seminars at leading hospitals.

Fatimid Foundation:

(Honorary Consultant)

- Management of Thalassemia Major and Haemophilia cases
- Consultancy services for Thalassemia screening
- Consultancy services to the Laboratory

Presentations at National Symposia:

- Platelet function disorders. 25th Annual Conference of Pakistan Association of Pathologists, Lahore, 2001.
- Use of intravenous anti-D in patients with relapsed and refractory cases of Immune thrombocytopenic purpura. Published abstract no.48 in joint 26th Annual conference of Pakistan Association of Pathologists and 5th Annual conference of Pakistan society of hematology, Rawalpindi, Pakistan. December 13-15 2002.
- Use of intravenous anti-D in patients with relapsed and refractory cases of Immune thrombocytopenic purpura and its comparison with splenectomy as second line therapy.40th Annual symposium Jinnah Postgraduate medical center. Feb25th-27th, 2003.
- Stat Lab: An analysis in the reduction of turn around time (TAT) of stat reports. Pakistan Association of Pathologists conference PIMS Islamabad 27th December 2004
- Oral Iron chelation with Deferiprone in patients with Thalassemia Major. Pakistan Association of Pathologists conference Lahore 28th November 2006
- Clinical Audit of Hemophilia Patients at Avari Tower Hotel Karachi dated 17-04-2007 on World hemophilia day
- Oral Iron chelation therapy with Deferiprone in patients with Thalassemia major on 28-04-2007 at Fatima Jinnah Medical College Lahore on 4th National Thalassemia Conference
- Clinical Audit of Hemophilia patients at PAP conference Peshawar November 2007
- Clinicopathologic spectrum of Acute Myeloid Leukemia in the elderly patients in a tertiary care Hospital at 32nd PAP conference November 24th 2008 Abbottabad
- Waldenstrom's Macroglobulinemia: A single center experience 11th Annual Hematology conference Pakistan Society of Hematology Lahore Feb 12-14 2010
- 34th PAP conference King Edward Medical College Lahore from 5-7 November 2010
- Presented 'Future of cord blood banking' at 13th PSH conference at Expo center Karachi from Jan 13-15th 2011

CONTINUING MEDICAL EDUCATION (CME) SEMINARS:

- Specimen collection guide lines in Medical II, III, CCU and Medical special wards of Services Hospital Lahore December 2004
- Clinical Guidelines of Management of Hepatitis C virus in the Medical special ward of Services Hospital Lahore January 2005
- Hemolytic anaemia presented in Medical ward of Sir Ganga Ram Hospital Lahore.2005
- Specimen Collection guidelines presented in Government Hospital Sialkot 2005
- Hemolytic Anaemia at Paediatrics ward Services Hospital Lahore 2005
- Bone marrow and trephine biopsy at Paediatrics ward Services Hospital Lahore 2005
- Thalassemia Syndromes at Paediatrics ward Services Hospital Lahore 2005
- Blood products and Thalassemia screening at Fatimid Foundation Lahore to the students of Aitchison College Lahore 2006
- Thalassemia syndromes to the students of Salamat educational system Lahore 2006
- Thalassemia Syndromes at Avari Towers Lahore on Thalassemia day 2006
- Blood transfusion, screening and Blood products at Auditorium Forman Christian College Lahore 2006
- Immune Hemolytic syndromes at Services Hospital Lahore Medical unit I on 11-05-2007
- Specimen collection guide lines and Diagnostic Importance of Bone marrow and trephine at Medical Unit 4 Services Hospital Lahore on 15-05-2007
- FM100 programme on thalassemia syndromes Diagnosis and prevention on Feb 19 2010
- CME on “Anemia” presented “anemia of Chronic disease” May 13 2009 AKUH
- Delivered a talk on "cryopreservation of cord blood" at CME Seminar on Recent Advances in Blood Banking on April 28, 2010
- CME at Faisalabad delivered talk on "Aplastic anemia :diagnosis and management" on 6th May 2010
- Organized World Blood Donor Day on June 14,2011 at AKU
- Delivered a talk on blood donor day at Kidney center Karachi June 14 2010

International Symposia attended:

1. **Hematology CME in Arab health 2010 Dubai convention center Dubai Jan 25-27th 2010**
2. **Chronic Myeloid leukemia Global Opinion Leaders Summit (CML GOLS): Managing chronic myeloid leukaemia-optimising response, improving outcomes 5-6 March 2011 at the congress center, Basel, Switzerland**
3. **3rd International Congress on Leukemia Lymphoma and Myeloma with 16 EHA-CME credit points at Istanbul Turkey May 12-14,2011**

WORKSHOPS:

- **Problem based learning workshop** at Alfaisal University, Riyadh 5th and 12th January 2012
- **JCIA colloquim** From December 13-15 2010 at Aga Khan University
- **“Ethics and overtreatment”** .Fourth symposium on clinical ethics March 6,2009 AKUH
- National safe blood transfusion project phase I Islamabad from Jan 13-14 2010.
- **Facilities and tools training workshop** Aga Khan university from May 24-26, 2010
- College of Physicians and Surgeons Supervisor workshops: **Research Methodology Biostatistics and medical writing** May 5-8 2009 CPSP Karachi
- College of Physicians and Surgeons Supervisor workshops: **Assessment of Competence** Jan 27-30,2009 Karachi
- College of Physicians and Surgeons Supervisor workshops: **Supervisor skills** Feb 24-27, 2009 Karachi

- Conducted Work shop 2nd Annual FCPS course in Hematology under CPSP Lahore May 7 2008 at Children Hospital Lahore
- **College of Physicians and Surgeons Supervisor workshops: Education Planning and evaluation Feb 13-16 2008 CPSP regional center Lahore**
- Attended 6th National Hematology Conference, Pakistan Society of Hematology and Pakistan Society of Clinical Oncology, 12-15th Feb 2004.
- Attended Hematological Morphology Workshop in association with the Karachi Chapter of Pakistan Society of Haematology, Aug 2001.
- CPSP mandatory workshops in Biostatistics and dissertation writing: June 24-27 2002
- Statistics, Data Management and Analysis and computer skills course from May2-30, 2003. AKUH
- Completed certificate course in National Institute of Health (NIH) office of extramural research web-based training course 'protecting human research participants' on 27-10-2013 (certificate number 1296313)

Professional Societies Affiliations

- Life Member of Pakistan Association of Pathologists. Pakistan.
- Life Member of Pakistan Society of Hematology

Language skills:

Proficiency in English. Scored 8.0 in IELTS in 2011

Computer skills

Excellent skills in uses of Microsoft office (Word, Excel and Powerpoint, Outlook), email and internet.