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## CURRICULUM VITAE



**Name:** Murad Khan  
**Father's Name:** Neik Muhammad  
**Address:** House No. 3, Block A-3, Johar Town, Lahore.  
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e-mail: [murad@murad.pk](mailto:murad@murad.pk)  
URLs: [www.pakmed.net](http://www.pakmed.net),  
[www.medrat.com/news/ejournals/](http://www.medrat.com/news/ejournals/) , and [www.murad.pk](http://www.murad.pk)

**Office Address** Department of Biochemistry, Combined Military Hospital (CMH) Lahore Medical and Dental College, Abdur Rahman Road, Lahore Cantonment, Pakistan

### **Personal & Family**

**Date of Birth:** February 12, 1960  
**Place of Birth** Faisalabad, Pakistan  
**Native Language:** Punjabi  
**Marital Status:** Married with three children (Abdullah Murad, Muhammad Bin Murad, and Abdur Rafey Murad)

### **Education**

**BSc**

Bahaduddin Zakariya University, Multan, Pakistan (1983)

**MBBS**

Nishtar Medical College, Multan, Pakistan, (April 1987) -- Registered with Pakistan Medical & Dental Council

**MPhil** (Biochemistry)

December 2007. Faculty of Medicine and Dentistry, University of the Punjab, Lahore, Pakistan (Session 2003) – Registered with Pakistan Medical & Dental Council

### **Incomplete Courses**

**MSc (Community Health and Nutrition) (incomplete and continuing)**

Currently enrolled in the final (fourth) semester of the course (Spring 2005)

**FCPS (incomplete and continuing)**

Have passed FSCP-I (basic medical sciences). Have completed 3-year mandatory training requirement, in November 2009, to appear in FCPS Part-II, under supervision of **Major General Professor Abdul Khaliq Naveed** Dean **Army Medical College Rawalpindi**.

Allama Iqbal Open University, Islamabad, Pakistan

College of Physicians and Surgeons Pakistan (CPSP).

## Professional Positions

**House Surgeon  
(general surgery)**

Mayo Hospital (affiliated to King Edward Medical College, Lahore), Lahore, Pakistan May 26 to December 31, 1987)

**Medical Officer**

For more than 2 years in districts Jhelum and Faisalabad, Pakistan (Health Department, Govt. of Punjab) (April 10, 1988 to December 17, 1989)

**Demonstrator/Lecturer**

Department of Biochemistry, Punjab Medical College, Faisalabad, (December 20, 1989 to December 1992)

**Demonstrator/Lecturer**

Department of Biochemistry, Postgraduate Medical Institute (PGMI), Lahore (Feb 1998 to March 1999), where I delivered lectures to MPhil, DPM, and DMJ students.

**Demonstrator/Lecturer**

Department of Biochemistry, Fatima Jinnah Medical College for Women, Lahore (March 1999 to October 31, 2006 where I delivered lectures on a variety of topics of medical biochemistry)

**Lecturer** (as a visiting faculty member)

1- BSc (Medical Laboratory Technology)  
2- BSc Hons. (Medical Imaging Technology)  
3- BSc (Physiotherapy)

To deliver lectures and conduct practical classes at School of Allied Health Sciences, Children Hospital (Institute of Child Health), Lahore, affiliated to University of Health Sciences, Lahore, since 2001 to date.

**Lecturer** (as a visiting faculty member)

Department of Biochemistry, University of Health Sciences, Lahore, to deliver lectures to MPhil (students), from November 2005 to 2006.

**Senior Demonstrator**

Department of Biochemistry, Combined Military Hospital (CMH) Lahore Medical College (February 01, 2007 to December 31, 2007)

**Assistant Professor**

Department of Biochemistry, Combined Military Hospital (CMH) Lahore Medical College (January 01, 2008 to May 31, 2010)

**Associate Professor**

**Department of Biochemistry, Combined Military Hospital (CMH) Lahore Medical College (June 01, 2010 to date)**

**Postgraduate Fellow  
(Ph.D. Student)**

Basic Medical Sciences Institute (BMSI), Jinnah Postgraduate Medical Institute (JPMC), Karachi (January 01, 1993 to June 1997)

**Examiner**

1- BSc (Medical Laboratory Technology)  
2- BSc Hons. (Medical Imaging Technology)  
3- MBBS (Bachelor of Medicine & Bachelor of Surgery)  
To conduct oral and practical examinations (clinical biochemistry, biochemistry and physiology) and to assess theory papers, University of Health Sciences for two years.

**Paper Setter**

Have been paper setter to set theory paper of clinical biochemistry I and II for BSc (Medical Laboratory Technology), University of Health Sciences, Lahore

**Additional Courses/Training**

Postgraduate Training Course on Nuclear and Other Advanced Techniques, in Agricultural and Biological Research

Nuclear Institute for Agriculture and Biology, Pakistan Atomic Energy Commission, Faisalabad, Pakistan (November 11-25, 1990)

Medicolegal and Postmortem Training Course

District Headquarters Hospital, Govt. of Punjab, Health Dept. (August 01 to 31, 1988)

Training Course in Diarrhoeal Diseases Control

Rawalpindi General Hospital, Rawalpindi (sponsored by UNICEF/WHO) (November 1988)

Microbiological Techniques

Audited in Winter Semester, 1990-91, Dept. of Microbiology, University of Agriculture, Faisalabad, Pakistan.

Computer Programming

Audited in Spring Semester, 1991, Department of Mathematics and Statistics, University of Agriculture, Faisalabad

Advanced Protozoology

Audited in Winter Semester, 1991-92, Department of Vet. Parasitology, University of Agriculture, Faisalabad, Pakistan

12th Annual Training Course on Diabetes Mellitus

Held from April 24 to 30, 2000, by Diabetic Association of Pakistan, at Fatima Jinnah Medical College, Lahore.

Community Oriented Medical Education (C.O.M.E) Tutor Training Workshop

Held from February 7-9, 2001, organized jointly by World Health Organization (WHO) and Ministry of Health, Government of Pakistan

Workshop on Curriculum Development for Community Oriented Medical Education (Tutor Training)

Held from May 21 to 23, 2001, organized jointly by World Health Organization (WHO) and Ministry of Health, Government of Pakistan

Training Course in OCP (Oracle Certified Professional) DBA (database administration) Track

Skill Development Council (a project of Ministry of Labour, Manpower, and Overseas Pakistanis, Government of Pakistan. 3-Month extensive training course (June to August 2001)

13th Annual Training Course on Diabetes Mellitus

Held from November 5 to 9, 2001, by Diabetic Association of Pakistan, at King Edward Medical College, Lahore

Medical Transcription and Quality Control (QC) Training Program, (Training and Examination)

Attended extensive training course (held from October 2001 to December 2001) as sponsored trainee. Secured B+ grade in examination.

Certification of Qualification as "Certified Quality Controller" in medical transcription.

Fauji Software Company (Fauji Foundation, Pakistan). Held from October to December 2001) with A Grade

"Certificate of Competency" for medical transcription.

Passed online test of Meditec.com (USA) with 98% score.

7-day Extensive Course "Health and Nutrition Education for MOs and WMOs"

Government of Punjab (Health Department), held at Institute of Health, Lahore, in June 2002.

"Workshop on Medical Writing and Peer Review System", Pakistan Medical Journalists' Association

Workshop was organized by Pakistan Medical Journalists' Association, on March 05, 2005.

"Interactive Workshop on Medical Computing Skills"

Workshop was held on April 13, 2008 at COMBINED MILITARY HOSPITAL (CMH) Lahore Medical College and conducted by Microsoft Office User Specialist (MOUS).

Workshop on "Research Methodology, Biostatistics, and Dissertation Writing"

Mandatory workshop as FCPS Part-II trainee, organized by College of Physicians and Surgeons Pakistan (CPSP), and held on July 1-5, 2009, at CPSP Regional Center, Lahore.

Workshop on "Communication Skills"

Mandatory workshop as FCPS Part-II trainee, organized by College of Physicians and Surgeons Pakistan (CPSP), and held on July 6-8, 2009, at CPSP Regional Center, Lahore.

Workshop on "Computer and Internet"

Mandatory workshop as FCPS Part-II trainee, organized by College of Physicians and Surgeons Pakistan (CPSP), and held on October 5-9, 2009, at CPSP Regional Center, Lahore.

## **Professional Experience/Responsibilities/Assignments**

Preparation of chemical reagents for/conduction of University MBBS Practical Examinations held during Dec. 1989 to August 1992, at Dept. of Biochemistry., Punjab Medical College, Faisalabad, Pakistan

Delivering lectures and demonstrating practicals in biochemistry to MBBS students at Punjab Medical College, Faisalabad, Pakistan (Dec. 1989 to August 1992)

Examiner in biochemistry for class tests held periodically for MBBS students at Departments of Biochemistry, Punjab Medical College, Faisalabad, Fatima Jinnah Medical College for Women, Lahore, Pakistan

Examiner in biochemistry for promotion examination of 1st year MBBS students, Punjab Medical College, Faisalabad and Fatima Jinnah Medical College for Women, Lahore

Participation in updating/computation of course work for *M.Phil* and *Ph.D* courses in basic medical sciences at Jinnah Postgraduate Medical Centre (Govt. of Pakistan), under the supervision of the Coordinator, BMSI, JPMC, Karachi

Perform determination of *hemoglobin A<sub>1C</sub>* and serum *fructosamine* of the patients referred by the Department of Medicine, Jinnah Postgraduate Medical Centre, Karachi

Computation of all scientific work done in the Department of Biochemistry, Jinnah Postgraduate Medical Centre, Karachi

Assigned to prepare chemical reagents for practical examinations of *M.Phil* students at Department of Biochemistry, Jinnah Postgraduate Medical Centre, Karachi (1995)

Worked as store incharge of main store of Fatima Jinnah Medical College, Lahore for about 5 years.

Worked as webmaster to create and maintain official website of Combined Military Hospital (CMH) Lahore Medical College Lahore Medical College, Lahore Cantonment at <http://cmhlahore.edu.pk>

Assigned special task in managing Entry Test (MCAT) at Combined Military Hospital (CMH) Lahore Medical College Lahore Cantonment Pakistan in Year 2007, 2008, and 2009.

## **Computer skill**

Attended Oracle (DBA track) classes at Turnpike Institute of Information Technology, Lahore. Course was offered in collaboration with Skill Development Council — a joint project of Government of Pakistan, World Bank, International Labour Organization (ILO), Employees Federation of Pakistan (EPP).

**A- STATISTICAL ANALYSIS:** Have a long experience to use Statistica® for Windows to perform a number of statistical analyses. Have performed statistical analysis for twenties of MPhil and FCPS theses and dissertations.

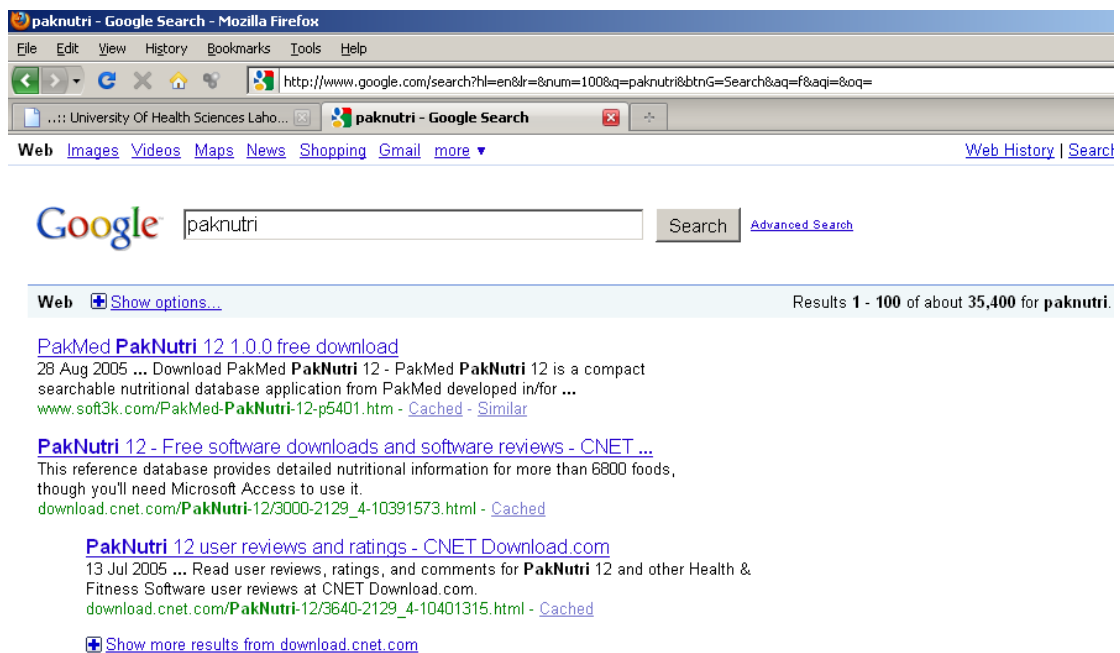
**B- SOFTWARE DEVELOPMENT:** I have developed a number of biomedical software applications in/for Microsoft Access and VBA (Visual Basic for Applications), under the consultancy of a famous computer programmer (Ken Fine [www.murad.pk/cv/kenfine.pdf](http://www.murad.pk/cv/kenfine.pdf) based in Boston, MA, USA

More than 100 biomedical software programs/applications are expected to be completed/released in near future, encompassing various biomedical disciplines.

**1- PakMed PakNutri 12:** A nutritional composition database of more than 6000 food items covering 44 nutrients (food components) based upon USDA (US Department of Agriculture) National Nutrient Database for Standard Reference. It is downloadable from thousand of web links including c/net download.com, at [http://download.cnet.com/PakNutri-12/3000-2129\\_4-10391573.html](http://download.cnet.com/PakNutri-12/3000-2129_4-10391573.html)

PakNutri has about 36,800 web links on Google, as shown below (accessed on February 03, 2010).

<http://www.google.com/search?hl=en&lr=&num=100&q=paknutri&btnG=Search&aq=f&aqi=&oq=>



The screenshot shows a Mozilla Firefox browser window displaying Google search results for 'paknutri'. The search bar contains 'paknutri' and the search button is visible. The results page shows 'Results 1 - 100 of about 35,400 for paknutri.' The first result is 'PakMed PakNutri 12 1.0.0 free download' with a date of 28 Aug 2005. The second result is 'PakNutri 12 - Free software downloads and software reviews - CNET ...' with a date of 13 Jul 2005. There are also links for 'PakNutri 12 user reviews and ratings - CNET Download.com' and 'Show more results from download.cnet.com'.

**2- PakMed PakPsych 72:** is a psychological/psychiatric software developed in/for Microsoft Access and is based on the DASS (by Lovibond and Lovibond) that is a set of three self-report scales designed to measure the negative emotional states of depression, anxiety and stress. The DASS may be administered either in groups or individually for research purposes. The DASS was constructed not merely as another set of scales to measure conventionally defined emotional states, but to further the process of defining, understanding, and measuring the ubiquitous and clinically significant emotional states usually described as depression, anxiety and stress. The application was developed under the guidance of the DASS author, Dr. Peter Lovibond. It is downloadable from simtel.net [http://simtel.net/product.php\[id\]88076\[sekid\]0\[SiteID\]simtel.net](http://simtel.net/product.php[id]88076[sekid]0[SiteID]simtel.net). And thousands of other web links, along with more than 22,600 web links on Google search engine (accessed on February 03, 2010) as shown below.

<http://www.google.com/search?hl=en&lr=&num=100&q=pakpsych&btnG=Search&aq=f&aqi=&oq=>



Web [Show options...](#) Results 1 - 100 of about 22,600 for pakpsych.

[Download PakMed PakPsych 72, PakMed PakPsych 72 1.0.0 Download](#)

15 Sep 2005 ... Free PakMed PakPsych 72 Download, PakMed PakPsych 72 1.0.0 Download.

[www.brothersoft.com](#) > [Home & Education](#) > [Science](#) - [Cached](#) - [Similar](#)

PakPsych was evaluated for a postgraduate project in computer engineering at a Malaysian university, where the scholar included PakPsych as one of the three software programs evaluated in his MS thesis. The PDF file of thesis/dissertation is available from the official website of University of Malaya at <http://dspace.fsktm.um.edu.my/bitstream/1812/208/1/Afzal%20Hussain.pdf>



Web [Show options...](#) Results 1 - 4 of 4 for filetype:pdf pakpsych 72

[PDF: Development of a Web-based System to Analyse the Emotional, Mental ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

PakMed PakPsych 72 is a psychological/psychiatric system, which is developed using ...

Figure 2.3 show the screen design of PakMed PakPsych 72 system. ...

[dspace.fsktm.um.edu.my/bitstream/1812/208/1/Afzal%20Hussain.pdf](http://dspace.fsktm.um.edu.my/bitstream/1812/208/1/Afzal%20Hussain.pdf)

### Neurology Software Applications

My software applications in the field of neurology have thousands of web links as shown below (more than 88,000 web links; accessed on February 03, 2010)

<http://www.google.com/search?hl=en&lr=&num=100&q=pakneurol&aq=f&aql=&aqi=&oq=>



Web [Show options...](#) Results 1 - 100 of about 88,200 for pakmed pakneurol.

[PakMed PakNeurol 02: Modified Glasgow Coma Scale Biomedical ...](#)

PakNeurol 02 is available from several download links that you can search by searching 'pakmed' as keyword in Google. Please try the following download ...

[www.pakmed.net/access/neu02.htm](http://www.pakmed.net/access/neu02.htm) - [Cached](#) - [Similar](#)

[Access Programs \(biomedical\) Homepage: Biomedical Applications ...](#)

Download PakMed PakNeurol 05. It is a neurological assessment tool developed in/for ...

Download Links for Demoware Version. Download PakMed PakNeurol 07 ...

[www.pakmed.net/access/index.html](http://www.pakmed.net/access/index.html) - [Cached](#)

[Download PakMed PakNeurol 03, PakMed PakNeurol 03 1.0.0 Download](#)

Free PakMed PakNeurol 03 Download, PakMed PakNeurol 03 1.0.0 Download.

[www.brothersoft.com/pakmed-pakneurol-03-38234.html](http://www.brothersoft.com/pakmed-pakneurol-03-38234.html) - [Cached](#)

**3- PakMed PakNeurol 01:** It is a neurological assessment tool developed in/for Microsoft Office Access. Based on **Glasgow Coma Scale** that is the most widely used scoring system used in quantifying level of consciousness following traumatic brain injury. Available freely from thousands of web links like <http://wareseeker.com/Home-Education/pakmed-pakneurol-01-1.0.0.zip/394079>

**4- PakMed PakNeurol 02:** It is a neurological assessment tool developed in/for Microsoft Office Access and is based on **Modified Glasgow Coma Scale** that is the most widely used scoring system used in quantifying level of consciousness following traumatic brain injury. Available freely from thousands of web links like [http://download.cnet.com/PakMed-PakNeurol-02/3000-2054\\_4-10397341.html](http://download.cnet.com/PakMed-PakNeurol-02/3000-2054_4-10397341.html)

**5- PakMed PakNeurol 03:** A neurological assessment developed in/for Microsoft Office Access and is based on **Blantyre Coma Scale for Young Children**. The Blantyre coma scale is a modification of the Glasgow coma scale suitable to use in

preverbal children. The scale uses motor and crying responses to pain and includes the ability to watch. It can be used to assess young children with cerebral malaria. Available freely from thousands of web links like [http://download.cnet.com/PakMed-PakNeurol-03/3000-2054\\_4-10397343.html](http://download.cnet.com/PakMed-PakNeurol-03/3000-2054_4-10397343.html)

**6- PakMed PakNeurol 04:** A neurological assessment developed in/for Microsoft Office Access and is based on the **COHMC Coma Scale for Brain-Injured Children**. The COHMC (Children's Orthopedic Hospital and Medical Center Seattle Washington) coma scale can be used to assess children with a variety of central nervous system injuries.. Available freely from thousands of web links like [http://download.cnet.com/PakMed-PakNeurol-04/3000-2054\\_4-10397345.html](http://download.cnet.com/PakMed-PakNeurol-04/3000-2054_4-10397345.html)

**7- PakMed PakNeurol 05:** A neurological assessment developed in/for Microsoft Office Access and is based on the **Pittsburgh Brain Stem Score (PBSS)** can be used to assess brain stem reflexes in a comatose patient. Available freely from thousands of web links like <http://www.soft3k.com/PakMed-PakNeurol-05-p5398.htm> . This application has been cited in Acta Anaesthesiologica Italica 2005 [http://www.aaroi.it/Pagine/acta/acta\\_2005/acta\\_4\\_05.pdf](http://www.aaroi.it/Pagine/acta/acta_2005/acta_4_05.pdf)

**8- PakMed PakNeurol 07:** It is a neurological assessment tool developed in/for Microsoft Office Access and is based on **Mathew Stroke Scale** for the neurological evaluation of a patient with acute stroke. It was developed at Baylor-Methodist Center for Cerebrovascular Research in Houston Texas. Available freely from thousands of web links like [http://download.cnet.com/PakMed-PakNeurol-07/3000-2054\\_4-10400497.html](http://download.cnet.com/PakMed-PakNeurol-07/3000-2054_4-10400497.html)

**C- WEB DEVELOPMENT:** I am running one of the most popular medical Web sites of Pakistan <http://pakmed.net>. I have been the webmaster of the official website of Combined Military Hospital (CMH) Lahore Medical College at <http://www.cmhlahore.edu.pk>. I am maintaining several websites particularly <http://www.medrat.com/news/ejournals/> , <http://www.medrat.com/news/nature/> and <http://www.medrat.com/news/>

<http://www.medrat.com/news/ejournals/> My other innovation in web development is to present latest news and abstracts from more than 1800 electronic biomedical journals using PHP scripting language to parse and cache up-to-date and latest information from the recent issues of these >1800 electronic journals, please [visit this link](http://www.medrat.com/news/ejournals/) to view this web site at <http://www.medrat.com/news/ejournals/>

Currently my software applications and Web site currently have about 88,000 Google searchable different links on the Web. This Web site presents Web pages of academic and educational nature encompassing a variety of biomedical areas, including my lecture slides.

**D- PRESENTATION SOFTWARE:** I have a long working experience to prepare dynamic PowerPoint presentations with objective-oriented animations. All of my lecture materials are primarily created in/for Microsoft PowerPoint.

**E: RECORD KEEPING AND ANALYSIS:** Academic and attendance record of FJMC students has been kept in a database since 2000, by me with a number of required analyses. Such works were also performed at Combined Military Hospital (CMH) Lahore Medical College Lahore Cantt

## **Books Authored/Co-authored**

Main (first) author of a book “**Library Science for Medical Scholars**” published officially by Jinnah Postgraduate Medical Centre, Ministry of Health, Government of Pakistan)Karachi

Co-author of "**Textbook of Modern Biochemistry**" published in India and Pakistan edited Professor Dr. Mukhtar Ahmad Hashmi

Author of **Manual of Experimental Biochemistry**, an approved book-cum-manual for biochemistry experiments for MBBS students at various government and private medical colleges of Pakistan.

Contributing author of “**Qadir’s Medical Enzymology**”, Published by Zulfiqar Ali Institute of Molecular Medicine, Islamabad.

## **Selected Scientific Publications**

1. Human AIDS and animal lentiviruses: A review, Pak Vet J 1992; 12 (3):101-5.
2. Utilization of agriculture wastes: Extraction of wax from press mud, Pak Sugar J 1992; VI (4): 11-5.
3. Risk of coronary heart disease and hydrogenated vegetable oils —the role of trans-fatty acids: Some basic concepts. Prof Med J 1996;3(4):267-9.
4. Effect of L-thyroxine therapy on the lipid contents of serum lipoproteins. Prof Med J 1998;5(2):149-54.
5. Effect of different intensities of occupational physical activity on serum lipids in healthy Pakistani males. Pak Med J 1997;20(11):21-5.
6. Rabies: A veterinarian’s concern. Pak Vet J 1997;17(1):1-5.
7. Garlic (*Allium sativum*): A review of controlled studies. Hamdard Medicus 1997;XL(4):13-5.
8. The effect of weight reduction by energy restrictive diet on serum fasting insulin and glucose levels, in non-diabetic obese men. Ann King Edward Medical College 1999;5(2):122-3.
9. Effect of hormone replacement therapy and brisk walking on serum lipid levels in sedentary postmenopausal women. Pak Med J 1997;20(10):28-32.
10. Alterations in the lipid contents of serum lipoproteins in uncomplicated minimal change nephropathy. Pak Med J 1997;20(9):28-32.
11. Insulin *Lispro*: A Rapid-Acting Insulin Analogue. Prof Med J

12. Effect of NIDDM on Serum Levels of Lipids and Testosterone, in the Middle-Aged Pakistani Men. Ann King Edward Medical College 1999;5(3):270-2.
13. Effect of a single session of mild exercise on serum lipid levels in healthy males. Ann of King Edward Medical College 2001;7(1):18-20.
14. Alterations in serum cholesterol levels in benign colorectal tumours. Medical Forum 2001
15. Effect of uncomplicated membranous glomerulonephritis on serum lipid profile. Medical Forum 2001.
16. Changes in serum lipid, testosterone, LH, and FSH levels in nephrotic patients with chronic renal failure. Medical Forum 2001
17. Protective role of vitamin B6 in Gentamicin Nephrotoxicity. Pakistan J Med Res Dec 2002;41(4):148-51.
18. Effect of smoking on serum malondialdehyde (an index of lipid peroxidation) in young Pakistani males. Pakistan Postgraduate Medical Journal. 2005; 16:87-90.
19. Effect of weight reduction by dietary caloric restriction on serum glucose and insulin levels in non-diabetic and obese postmenopausal women Medical Forum 2005.
20. Aminoglycosides induced nephrotoxicity and its protection by Nigella Sativa. Medical Forum, 2005.
21. Effect of lithium carbonate on serotonin (5-HT) and creatine phosphokinase (CPK) in depressed patients. Medical Forum 2005.

### **Co-curricular Activities**

Reading, computing, sight-seeing, animal rights, vegetarianism, music, web development, social work, etc.

<http://www.youtube.com/watch?v=eLSgAn3bJc>

<http://www.youtube.com/watch?v=g7HrBgb1lI0>

## Teaching Capabilities/Experience

- Delivered biochemistry lectures to MBBS students at Punjab Medical College Faisalabad, Fatima Jinnah Medical College Lahore, and COMBINED MILITARY HOSPITAL (CMH) Lahore Medical College Lahore Cantt.
- Delivered biochemistry lectures to two classes of MPhil (Biochemistry) students at University of Health Sciences Lahore covering almost complete MPhil theory and practical course, as a visiting faculty member.
- Delivered lectures and conducted practical classes of BSc (Physiotherapy, Medical Laboratory Technology, and Medical Imaging Technology), at School of Allied Health Sciences, Children's Hospital Lahore, as a visiting faculty member.
- Delivered biochemistry lectures to BDS class at Combined Military Hospital (CMH) Lahore Medical College Lahore Cantonment
- Delivered biochemistry lectures to postgraduate medical students of MPhil, DMJ (Diploma Medical Jurisprudence), and DPM (Diploma Psychiatric Medicine).

## References

- **Professor Dr Abdul Baseer**, Ex-Head Department of Biochemistry and Coordinator Basic Medical Sciences Institute BMIS Jinnah Postgraduate Medical Center, Karachi, Pakistan.
- **Professor Dr Nasreen Sharif**, Head of Department, Combined Military Hospital (CMH) Lahore Medical College, Lahore Cantonment, Pakistan.
- **Major General Abdul Khaliq Naveed**, Professor and Dean, Army Medical College, Rawalpindi, Pakistan.
- **Lt Gen (R) Suhail Abbas Jafri** (Ex-Surgeon General, Pakistan Army), Lahore, Pakistan.
- **Lt Gen (R) Syed Afzal Ahmad** (Ex-Surgeon General Pakistan Army; Cardiovascular Surgeon and Principal Combined Military Hospital (CMH) Lahore Medical College, Lahore Cantonment, Pakistan)
- **Professor Dr Mudassir Ahmad Khan**, Hfead Department of Biochemistry, Khyber Medical College, Peshawar, Pakistan.
- **Professor Dr Naheed Qadir**, Head Department of Biochemistry, Peoples Medical College, Nawabshah, Pakistan.
- **Professor Hafeez Shaikh**, Chairman Department of Biochemistry, Liaquat University of Medical and Health Sciences LUMHS Jamshoro Sindh, Pakistan.
- **Professor Dr Akbar Khawaja**, BMSI, JPMC, Karachi, Pakistan.
- **Professor Dr Muhammad Shafiq Bangash**, Peshawar Medical College, Peshawar, Pakistan.
- **Professor Dr Asma Malik**, Head of Department, Department of Biochemistry, Fatima Jinnah Medical College, Lahore, Pakistan.