

# ANATCON 2024

APRIL 26 - 27  
KARACHI, PAKISTAN

## Role of Anatomy in Medical Advancement

Venue: Fazaia Ruth Pfau  
Medical College



ANATCON-2024  
[www.anatcon.com.pk](http://www.anatcon.com.pk)





In The Name of Allah,  
The Most Beneficent, The Most Merciful

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## About Anatcon-2024

**ANATCON-2024** is a highly distinguished event organized jointly by the Anatomical Society of Pakistan and Fazaia Ruth Pfau Medical College, Karachi. This flagship conference serves to illuminate the global landscape of anatomical sciences and is a beacon of knowledge in the field. This year's event is an international symposium that promises to bring together experts from around the world to discuss diverse perspectives and expertise in the field of anatomy. We are honored to welcome esteemed speakers, whose profound insights and contributions will enrich our understanding of anatomy and its applications in healthcare.

The conference will prioritize innovation, research, and education, providing a platform for meaningful discussions and exchange of knowledge that transcend geographical boundaries. We invite you to join us in Karachi for an enriching experience that bridges the gap between local expertise and international perspectives in the fascinating realm of anatomical education and research.

We believe that this year's ANATCON-2024 will be an excellent opportunity for the international community to come together and share their expertise and knowledge in the field of anatomical sciences. We look forward to your participation in this prestigious event.



## About Anatomical Society of Pakistan



The Anatomical Society of Pakistan stands as a testament to the unwavering commitment of Pakistani anatomists towards the advancement of anatomical sciences in the country. Rooted in its inception as the Pakistan Association of Anatomists in the 1980s, its evolution into the Pakistan Anatomical Society in 2012 marked a significant milestone in its dedication to fostering research, education, and collaboration within the field of anatomy.

Society has been steadfast in its pursuit of several core objectives since its establishment. Foremost among these objectives is the promotion of anatomical sciences through research, education, and outreach. By organizing conferences, seminars, workshops, and scientific sessions, society facilitates the dissemination of knowledge among its members and the wider academic community. These platforms not only serve as avenues for presenting groundbreaking research but also encourage networking and collaboration among anatomists, educators, and students.

Another crucial aim of the Anatomical Society of Pakistan is to enhance the standards of anatomical education and practice within the country. This encompasses fostering innovative teaching methodologies, advocating ethical practices in anatomical research, and ensuring the availability of resources that facilitate comprehensive anatomical learning.

Over the years, the Anatomical Society of Pakistan has made significant contributions to the advancement of anatomical sciences in the country. Its efforts have led to a notable increase in the quality and quantity of anatomical research conducted within Pakistan. Moreover, society's emphasis on educational initiatives has played a pivotal role in enhancing the pedagogical methods employed in anatomy teaching, thereby nurturing a generation of competent anatomists and healthcare.

## About Fazaia Ruth Pfau Medical College



Fazaia Ruth Pfau Medical College, Karachi was established in February 2019 as a constituent institution of Air University, Islamabad. Air University, Islamabad is a public University, chartered in 2002 under the governance of the Pakistan Air Force. The Faculty of Medicine at Air University offers a medical program with a modular curriculum using a spiral approach. A panel of medical education experts has designed this curriculum in alignment with PMDC guidelines.

Fazaia Ruth Pfau Medical College, Karachi has been established to train and educate future physicians using a holistic, community-oriented rather than disease-oriented approach. The importance of evidence and research in clinical decision-making will be the hallmark of educational strategy. Community health experts have been engaged to review the curriculum and prioritize the community health issues in the teaching program. The students will be trained to use logic, knowledge, and social empathy as primary tools for patient care.

The establishment of Fazaia Ruth Pfau Medical College aims to serve a greater benefit in patient care to the community at large. Induction of Clinical Professorial faculty, introduction of medical and surgical subspecialties, commissioning of sophisticated medical equipment, elevation of emergency and diagnostic services and patient record management by the standards and guidelines of PMDC, adding to advancement in patient management.

## Message from the President of the International Federation of Associations of Anatomists (IFAA)



**Emeritus Professor Beverly Kramer**

**School of Anatomical Sciences, faculty of Health Sciences,  
University of the Witwatersrand, Johannesburg, South Africa**

Warm anatomical greetings from the International Federation of Associations of Anatomists (IFAA). It is a great privilege to be participating in the 2024 Annual Congress of the Anatomical Society of Pakistan. It will be an honour to meet anatomists who work for, and feel keenly about, the development of education, research and professional advancement of staff and students in anatomy.

The discipline of anatomy has remained strong over thousands of years and even as we hurtle through the 21<sup>st</sup> Century, anatomists are still engaging in ways to ensure that the discipline progresses. There are a number of challenges to our discipline such as a reduction in time for teaching, a worldwide shortage of anatomists, the impact of technology and AI, but all of these challenges can be surmounted by sound research, debate and review of our discipline. I look forward to the sharing of knowledge and insights on anatomy and its sub-disciplines at the Congress.

I would like to congratulate the anatomists of Pakistan for your contributions to anatomy and for the ongoing interest and development of the discipline. Anatomy congresses are important platforms for discussing the future. I hope particularly, to meet many emergent anatomists at the Congress and to hear their thoughts on what they foresee for the future of anatomy.



## Message from the Former Vice Chancellor, Air University



**Air Marshal Javaid Ahmed, HI (M) (Retd)**

With immense pleasure and anticipation, I extend a warm welcome to the participants of the upcoming International Conference of Anatomy being hosted by Fazaia Ruth Pfau Medical College, Karachi, a constituent college of Air University, Islamabad. I am honored to welcome Professor Beverley Kramer, President, International Federation of Associations of Anatomists (IFAA) and other foreign delegates who are specially travelling to participate in this gathering of dedicated Anatomy educators, researchers, healthcare professionals and learners who are shaping the future of Anatomical science education and its application to clinical sciences. The importance of quality medical education remains pivotal for the training of future physicians. Together, we will explore emerging trends, discuss advancements in technology, and foster a community committed to excellence in healthcare education. Your participation is not only encouraged but essential to the success of this event. I look forward to see you at the conference, where together, we can strive to advance ways to bring Anatomical science education to new heights.

## Message from the Dean Faculty of Health Sciences Air University Islamabad



**Maj Gen Prof. Muhammad Tahir Khadim, HI (M) Retd**

**MBBS, Dip (Path), MCPS (Path), FCPS (Histopath), Adv Dip HPE (AKU), FRCP (Edn), PhD (Path)**

It's a matter of great honour and pleasure for me to welcome the participants of Anatcon-2024, an International Anatomy Conference being held on 26<sup>th</sup> & 27<sup>th</sup> April 2024, at Fazaia Ruth Pfau Medical College, Karachi. This event will capture the essence of scientific pursuits of understanding anatomy and unlocking the secrets of human form by exploring the depth of its anatomy. I am sure the event will generate excitement and intrigue, inviting participants to delve deeper into the intricacies of human anatomy. It's an event to connect minds and bridge borders in anatomy research. As a dean faculty of health science at Air University, Islamabad, I feel pride in extending a partnership with Anatomical Society of Pakistan for hosting this international conference. This conference aims to provide a forum for Anatomy educators and researchers to present and discuss recent developments in the fields of Human Anatomy, innovations in its teaching and contribution in the advancement of clinical disciplines. This conference will provide the unique platform for the unity of researchers from diverse background who would be joining together to explore the complexities of human body. The theme of the conference "**Role of Anatomy in Medical Advancement**" is apt and timely as in the recent past there have been tremendous advancements in diagnostic and management strategies of human ailments which mainly rely on anatomical knowledge and research. The best examples one could quote are the advancement in stem cell research and deep brain stimulation which solely rely on anatomical knowledge and are being used to treat the unresolved neurological ailments like Parkinsonism and Depression. I would also like to stress that in this era of rapid technological advancement, we as researchers will not survive without working in a community, supplementing and supporting each other's work. I believe that this conference would serve as an effective platform for academic staff, researchers and educators to learn, network, share and to create an environment for intellectual exchanges which would benefit all. I extend my sincere thanks to all medical colleges who are holding preconference workshops, keynote speakers, invited speakers and the expert panelist who have readily agreed to offer their expertise and time. I would like to congratulate Professor Masood Ahmed, Principal Fazaia Ruth Pfau Medical College, Karachi who is also a Vice President of Anatomical Society of Pakistan and his accomplished team for undertaking a tough task of organizing this international conference.

## Message from the General Secretary Anatomical Society of Pakistan



**Prof. Dr. Wajid Hussain Barki**  
**Principal CMH Multan Institute of Medical Sciences**

We welcome the fraternity of Anatomy to the “ANATCON 24”. Hopefully this international conference will open new venues of research in the medical sciences. The president of IFAA and other international speakers will grace this event and will enlighten the young anatomists about their experiences and ongoing research in the field of Anatomy. A number of hands on workshops will also help to enhance the skills of the participants as per the contemporary trends across the world. The scientific sessions will provide opportunities to discuss and exchange news and views about the role and understanding of Anatomy as a core of Medical Sciences. We hope the impact of this conference will determine a much awaited direction of learning and teaching the medical sciences with special focus on social media and artificial intelligence. We extend our gratitude and best wishes to the organizers of the conference for the efforts to make it a model for future endeavors of Anatomical society of Pakistan.

## Message from the President Anatomical Society of Pakistan



**Prof. Dr. Muhammad Suhail**

**Professor & Head, Department of Anatomy, Amna Inayat Medical & Faryal Dental College, Lahore**

Anatomical Society of Pakistan is the only registered forum that provides opportunities for Anatomists to collaborate and share their teaching & research experiences in Pakistan. These and other new innovative ideas regarding academic improvement of undergraduate & postgraduate medical teaching methodologies, their curricula and assessment policies are presented in various conferences and Seminars under the Umbrella of ASP. "ANATCON 2024" this year is being organized by ASP in collaboration with Fazaia Ruth Pfau Medical College, Karachi. Indeed, it's a matter of great pleasure that this is the 1<sup>st</sup> Conference which is being held here and it's an honor for me and other learned participants to attend. The basic theme of the Conference is "**Role of Anatomy in Medical Advancement**" which is going to address how important is the Subject of Anatomy in all the recent advancements in the medical field. The renowned International & National speakers have spared their valuable time to share their knowledge & experience with the participants, especially the Anatomy fraternity. This year we are lucky to have with us "**Professor Beverly Kramer**" President, of the International Federation of Associations of Anatomist (IFAA) and other international speakers. A series of Pre-Conference workshops is going to provide an excellent opportunity for the participant to enhance their knowledge. Besides these & the keynote speakers, young researchers will be presenting their papers and posters. I am sure all the delegates will get maximum benefit & motivation from these marvelous academic activities.

Most of the Universities in our country are shifting towards Modular/Integrated systems and new assessment methodologies. Both horizontal & vertical integration have been incorporated but despite all this Anatomy remains the major and essential subject and has a pivotal role in the field of Medicine. Seniors and youngsters of the Anatomy fraternity are facing multiple challenges regarding teaching and conceptual understanding. Moreover, the scope and dimension of research in Anatomy has become vast with recent advancements in Genetics, stem cells and tissue culture, Embryology & Teratology. The time has come to motivate our youngsters to come up and excel in these fields. Various workshops are so planned in "**ANATCON 2024**" to develop interest in these domains.

ASP remains thankful to the speakers, delegates and especially the Administration of Fazaia Ruth Pfau Medical College for providing all facilities graciously to hold the conference and to make it successful.

## Message from the Chair ANATCON-2024



**Prof. Dr. Masood Ahmed**

**Principal Fazaia Ruth Pfau Medical College,  
Vice President, Anatomical Society of Pakistan**

Dear Esteemed Guests,

On behalf of the organizing committee, I am delighted to welcome all distinguished national and international guests attending the Anatcon-2024, International Conference of Anatomy. It is truly an honor to gather such esteemed professionals from across the globe to share insights, advancements, and discoveries in the field of anatomy. Your presence enriches this conference and contributes immensely to its success.

We have meticulously crafted a dynamic scientific program that encompasses a wide array of topics, ranging from traditional anatomical studies to cutting-edge research and technological innovations. This program reflects the vibrant landscape of anatomical sciences, its cross-disciplinary importance, application and promises to inspire thought-provoking discussions and collaborations.

Beyond the scientific sessions, this conference serves as a platform for meaningful interaction and the exchange of ideas. Networking opportunities abound, offering a chance to forge new partnerships, strengthen existing collaborations, and foster interdisciplinary dialogue.

As we move on this enriching journey together, I encourage you to actively engage in the sessions, participate in discussions, and seize every opportunity to connect with fellow attendees. Your contributions and insights are invaluable in shaping the future of anatomical research and education.

Once again, welcome to the International Conference of Anatomy. May this gathering be both enlightening and rewarding, as we unite in our shared passion for advancing the frontiers of anatomical knowledge.

Warm regards.

## Conference Program

### Inaugural Ceremony-Anatcon-2024, Friday 26<sup>th</sup> April

#### Program

6:00 pm-7:00 pm	Inauguration of Posters & Model Making competition by <b>President IFFA</b>
7:00 pm-7:15 pm	Maghrib Prayer
7:15 pm-7:25 pm	Recitation of Quranic Verses & National Anthem
7:25 pm-07:35 pm	Opening Remarks by the Conference Chair <b>Prof. Dr. Masood Ahmed</b>
7:35 pm-07:45 pm	Welcome Address by Dean, Faculty of Medicine Air University <b>Prof. Tahir Khadim</b>
7:45 pm-07:55 pm	Welcome Address by President Anatomical Society of Pakistan <b>Prof. Dr. Muhammad Suhail</b>
7:55 pm-08:35 pm	Dealing with the challenges of ethics in anatomy in the 21 <sup>st</sup> Century <b>Prof. Dr. Beverley Kramer</b>
8:35 pm-08:55 pm	Contribution of electron microscopy to the advancement of medicine <b>Prof. Dr. Eltuhami Abdelmageed</b>
8:55 pm-9:00 pm	Launch of Academic Researcher <b>FRPMC Medical Journal</b>
9:00 pm-09:20 pm	Lifetime Achievement Awards
09:20 pm-09:35 pm	Shield distribution
09:35 pm –09:45pm	Address by Chief Guest
09:45 pm –09:50pm	Vote of Thanks <b>Prof. Dr. Masood Ahmed</b>
	Group Photos
10:00 pm	Dinner

## Day 2, Saturday, 27<sup>th</sup> April 2024

### Session One (09:00 am - 11:25 am) Venue: Auditorium, Fazaia Ruth Pfau Medical

**Theme: Anatomist as a Scientist/ Researcher**

**Chair: Prof. Tahir Khadim, Co-Chair: Prof. Dr. Wajid Hussain Barki, Moderator: Dr. Fouzia Kirmani**

### Program

Time & Duration	Topic(s)	Presenter(s)
09:00am-09:05am 05 Minutes	Recitation of Quranic verses	
09:05am-09:35am 30 Minutes	The global situation of anatomical science education: Are there lessons to be learned from international frameworks	<b>Prof. Beverley Kramer</b> President IFAA
09:35am-09:55am 20 Minutes	The Role of stem cell research in the enhancement of medicine, taking hair follicle bulge stem cells as an example	<b>Prof. Dr. Eltuhami Abdel Mageed</b> Ph.D. in Anatomical Sciences
09:55am-10:10am 15 Minutes	Viral Vector-Mediated Gene Therapy for Neuro-cutaneous Disorders - A Promising Frontier in Therapeutic Advancements and Future Prospects	<b>Dr. Cheah Pike-See</b> Prof. of Anatomy, Putra University, Malaysia
10:10am-10:25am 15 Minutes	Human induced pluripotent stem cells derived neural model to understand neurological disorders	<b>Dr. Michael KH Ling</b> Director, Center for Regenerative Medicine, Malaysia
10:25am-10:35am 10 Minutes	A Comprehensive Journey through the History of Anatomy and its Transformative Achievements of the Past Century	<b>Prof. Dr. Masood Ahmed</b> Vice President of ASP & Principal FRPMC
10:35am-10:45am 10 Minutes	Illuminating Paths, fostering thinkers and paving the future landscapes for Anatomy Ph.D. program in Pakistan	<b>Prof. Dr. Bushra Wasim</b> HoD, Anatomy Department, Ziauddin Medical University
10:45am-11:05am 20 Minutes	<b>Panel Discussion</b> Collaborative Research <b>Moderator: Prof. Muhammad Suhail</b> <b>Panelist:</b> Prof. Beverley Kramer, Prof. Dr. Khalid Khan, Dr. Uruj Zehra	
11:05am-11:25am 20 Minutes	<b>Tea Break</b>	

## Session Two (11:25 am - 1:15 pm)

**Venue: Auditorium, Fazaia Ruth Pfau Medical College**

**Theme: Cross Disciplinary Perspectives in Anatomy**

**Chair: Prof. Attiya Mubarak**

**Co- Chair: Prof. Aliya Zahid**

**Moderator: Dr. Aisha Brohi**

### Program

Time & Duration	Topic(s)	Presenter(s)
11:25 am-11:35 am 10 Minutes	Insights into Breast Anatomy: A roadmap for successful surgical outcome	<b>Prof. Rufina Soomro</b> HoD, Breast Surgery Unit, LNHMC
11:35 am-11:45 am 10 Minutes	Neuroanatomy to Neuroscience, a Neurologist's perspective	<b>Dr. Mughees Sheerani</b> Associate Prof & Consultant Neurologist, SIUT & South City Hospital, Karachi
11:50 am-12:00 pm 10 Minutes	Significance of Anatomical landmarks during knee arthroplasty	<b>Prof. Dr. Masood Umer</b> Orthopedic Surgeon, AKUH
12:05 pm-12:15 pm 10 Minutes	Effects of Intraventricular Infusion of Quinolinic Acid on Spatial Learning and Memory in Young Rats	<b>Prof. Khalid Khan</b> Department of Anatomy, AKUH
12:20 pm-12:30 pm 10 Minutes	Research training and effective Anatomy pedagogy- A crucial connection	<b>Dr. Uruj Zehra</b> HoD, Anatomy Department, UHS, Lahore
12:35 pm-12:45 pm 10 Minutes	Anatomy and Art: The Intersection of Science and Creativity	<b>Prof. Dr. Saima Athar</b> Liaquat National Hospital and Medical College
12:45 pm-12:55 pm 10 Minutes	Usage of Artificial Intelligence in Virtual Reality in Medical Studies	<b>Prof. Ambreen Usmani</b> Prof. of Anatomy, Principal JMDC
12:55 pm-01:15 pm 20 Minutes	<b>Question Answer session</b>	
01:15pm-02:00pm 45 Minutes	<b>Lunch and Prayer Break</b>	



## Session Three (02:00 pm - 4:00 pm)

**Venue:** Auditorium, Fazaia Ruth Pfau Medical College

**Theme:** Anatomy Education & Pedagogy

**Chair:** Prof. Siraj-Ul-Haq

**Co-Chair:** Ambreen Usmani

**Moderator:** Dr. Saima Athar

### Program

Time & Duration	Topic(s)	Presenter(s)
02:00 - 02:10 pm 10 Minutes	Navigating the Transition; Student Empowerment through Active Learning	<b>Prof. Dr. Nabila Kaukab</b>
02:10 - 02:20 pm 10 Minutes	The role of healthcare teachers; challenges & opportunities	<b>Prof. Dr. Zia-ul Islam</b> Head Department Anatomy LNHMC
02:25 - 02:35 pm 10 Minutes	Transforming Data into Publication: Crafting Compelling Medical Research Papers.	<b>Prof. Dr. Mariyah Hidayat</b> University College of Medicine & Dentistry UOL
02:40 - 02:50 pm 10 Minutes	Booster Dose-Bridging the Gap of Anatomical Knowledge in Modular curriculum	<b>Dr. Zahid Ali</b> Faculty of Anatomy, King Saud University, KSA
02:55 - 03:15 pm 20 Minutes	<p style="text-align: center;"><b>Panel Discussion</b> Anatomical Education in 21<sup>st</sup> Century <b>Moderator:</b> Prof. Masood Ahmed <b>Panelist:</b> Prof. Cheah Pike-See, Prof. Ambreen Usmani, Prof. Siraj ul Haque, Prof. Nazreen Shareef</p>	
03:20 - 03:35 pm 15 Minutes	<b>Concluding Session &amp; Shield Distribution</b>	
03:35 - 03:45 pm 10 Minutes	<p style="text-align: center;"><b>Address by the Chief Guest</b> Air Marshal Javaid Ahmed, HI(M) (Retd), former Vice Chancellor Air University</p>	
03:45 - 4:00 pm 15 Minutes	<b>Vote of Thanks</b>	

## Concurrent Session-I (11:20 am - 1:10 pm)

**Venue: Lecture Hall – 1**

**Theme: Free Papers Presentation**

**Chair: Prof. Athar Maqbool**

**Co-Chair: Prof. Lateef Panhwar**

**Moderator: Dr. Saima Moin**

### Program

Time & Duration	Topic(s)	Presenter(s)
11:20 am-11:30 am 10 Minutes	Isolation and characterization of amniotic fluid stem cells and their differentiation towards nephron progenitor cells	<b>Dr. Hina Jabeen</b> DUHS
11:35 am-11:45 am 10 Minutes	Correlation of Developmental Dysplasia of Hip in Newborns with Mode of Presentation on Graf Method Ultrasound	<b>Dr. Samia Khalid</b> Khokhar, BUMDC
11:50 am-12:00 pm 10 Minutes	A comprehensive exploration through CT-guided pedicle morphometry of lumbar vertebrae in Pakistani population	<b>Dr. Zumirah Atiq</b> M. Islam Medical College, Gujranwala
12:05 pm-12:15 pm 10 Minutes	Comparison of Morphometric Parameters of Third Ventricle among Males and Females and Its Relevance with Age	<b>Dr. Amatul. Sughra</b> Hamdard Medical College
12:20 pm-12:30 pm 10 Minutes	Cup to Disc Ratio (CDR). A Window to Different Ophthalmic Conditions	<b>Dr. Sehrish Mukhtiar</b> JMDC
12:35-12:45 pm 10 Minutes	Alteration in the expression of Vascular endothelial growth factor and poor bone healing is linked with uptake of NSAIDS	<b>Dr. Maria Zafar</b> University of Health Sciences Lahore
12:50-01:10 pm 20 Minutes	<b>Q &amp; A Session</b>	
01:10 - 01:55 pm 45 Minutes	<b>Lunch and Prayer Break</b>	

## Concurrent Session- II (11:20 am – 1:10 pm)

**Venue:** Lecture Hall – 2

**Theme:** Free Papers Presentation

**Chair:** Prof. Talat Yasmeeen

**Co-Chair:** Prof. Hemant Kumar

**Moderator:** Dr. Uzma Hameed

### Program

Time & Duration	Title	Presenter(s)
11:20am-11:30am 10 Minutes	Evaluation of alterations in Astrocytic morphology associated with Bisphenol – An induced Anxiety Linked Behavior in Rat offspring	<b>Dr. Syna Pervaiz Sangha</b> Isra University Hyderabad
11:35 - 11:45 am 10 Minutes	Anatomical variants of renal vasculature: a study in adults on multi detector computerized tomography angiography scan	<b>Dr. Maria Mohiuddin</b> Hamdard University
11:50 - 12:00 pm 10 Minutes	Human amniotic epithelial cells (HAECs); a potential cell type for the hepatic disorders.	<b>Dr. Quratulain Khan</b> Ziauddin university
12:05 - 12:15 pm 10 Minutes	Chromosomal Aberrations in Children with Congenital Hydrocephalus.	<b>Dr. Rahat Bano Siddiqi</b> FRPMC
12:20 - 12:30 pm 10 Minutes	Comparative evaluation of lamina cribrosa anatomical parameters with retinal nerve fiber layer thickness defects in primary open-angle glaucoma cases and controls	<b>Dr. Aisha Saba Naz</b> BUMDC
12:35 - 12:45 pm 10 Minutes	Effect of early post-natal growth restriction and catch-up growth on the cardiac histology in rats: a preterm birth model	<b>Dr. Muhammad Ali Rabbani</b> CMH Multan Institute of Medical Sciences, Multan.
12:50 - 01:10 pm 20 Minutes	<b>Q &amp; A Session</b>	
01:10 - 01:55 pm 45 Minutes	<b>Lunch and Prayer Break</b>	

## Concurrent Session-III (11:20 am - 1:10 pm)

**Venue:** Lecture Hall – 3

**Theme:** Free Papers Presentation

**Chair:** Prof. Shahid Somroo

**Co-Chair:** Prof. Zia-Ul-Islam

**Moderator:** Dr. Nadira Hameed

### Program

Time & Duration	Topic(s)	Presenter(s)
11:20am-11:30am 10 Minutes	Infra-orbital Hyper-pigmentation (Dark Circles): A Study of its Prevalence, Etiology and association with other dermatological symptoms among young adults	<b>Mustafa Hussain Imam</b> Liaquat National Hospital and Medical College
11:35 am-11:45 am 10 Minutes	Exploring Medical Students' Perspectives: Bedside Teaching Versus Simulation Labs in Clinical Education.	<b>Hafsa Khan</b> Fazaia Ruth Pfau Medical College
11:50 am-12:00 pm 10 Minutes	Awareness of male infertility among general population	<b>Harris Iqbal Qazi</b> Liaquat National Hospital and Medical College
12:05 pm-12:15 pm 10 Minutes	Practice of breast self-examination among female health care workers	<b>Rukhsar Sara Ijaz</b> Liaquat National Hospital and Medical College
12:20 pm-12:30 pm 10 Minutes	Understanding Knowledge and Attitude of Postpartum Depression among the Social Support System of Gravidarum Women: A Multi-centered Study	<b>Jawaria Shahzad</b> Fazaia Ruth Pfau Medical College
12:30 - 12:50 pm 20 Minutes	<b>Q &amp; A Session</b>	
12:50 - 1:10 pm 20 Minutes	<b>Panel Discussion</b> Unfolding the Research potential of Students <b>Moderator:</b> Dr. Fatima Rehman <b>Panelist:</b> Prof. Cheah Pike-See, Prof. Micheal KH Ling, Malik Hurais, Hudaib Muhammad	
01:10 - 01:55 pm 45 Minutes	<b>Lunch and Prayer Break</b>	

## Conference Committee Members

### Anatomical Society of Pakistan (Cabinet 2022-2025)



Prof. Dr. Muhammad  
Suhail  
**(President)**



Prof. Dr. Wajid  
Hussain Barki  
**(General  
Secretary)**



Prof. Dr. Masood  
Ahmed  
**(Vice President)**



Prof. Dr.  
Muhammad Zubair  
**(Joint Secretary)**



Prof. Dr. Aliya  
Zahid  
**(Information  
Secretary)**



Prof. Mahjabeen  
Muneer  
**(Finance  
Secretary)**

### Executive Members



Prof. Nazrin Shareef  
**(Punjab)**



Prof. Shahid  
Soomro  
**(Sindh)**



Prof. Nida Qasim  
**(KPK)**



Prof. Lateef  
Panhwar  
**(Baluchistan)**



Prof. Rehma  
Sarfaraz  
**(Islamabad)**



Prof. Shabbir  
Chaudhry  
**(Azad Kashmir)**

## Steering Committee – ANATCON-2024



Prof. Dr. Muhammad  
Suhail



Prof. Dr. Wajid  
Hussain Barki



Prof. Dr. Masood  
Ahmed



Lt. Col. (Retd.) Dr.  
Muhammad Ahmed



Prof. Tahir Ansari  
**(Director  
Medical Education)**

## Organizing Committee: FRPMC



Prof. Dr. Masood  
Ahmed  
**(Chairman)**



Dr. Sama-ul-Haque  
**(Secretary)**



Dr. Zil-E-Huma  
**(Joint Secretary)**



Prof. Zahid Akhtar  
Rao



Dr. Maisam Abbas



Prof. Erum Imran



Prof. Aun Ali Khowaja



Prof. Yousuf Ali  
Lakdawala



Prof. Tahir Ansari



Prof. Khalid  
Mehmood



Dr. Kausar  
Mehmood



Prof. Asghar Mehdi

## Scientific Committee



Prof. Dr. Muhammad  
Suhail



Prof. Ambreen  
Usmani



Prof. Zia-Ul-Islam



Prof. Bushra  
Waseem



Dr. Fouzia Kirmani



Dr. Saima Moin  
**(Secretary)**

## Workshop committee



Prof. Tahir Ansari



Prof. Yousuf Ali  
Lakdawala



Dr. Maisam Abbas



Dr. Syeda Maryam  
Tanweer



Dr. Rukhsana A.  
Sattar



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Prof. Saima Athar



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## Invited Guest Presentation

### Prof. Dr. Beverly Kramer

President (IFAA) International Federation of Associations of Anatomist, Emeritus Professor, School of Anatomical Sciences, faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa

### Title

**The global situation of anatomical science education: Are there lessons to be learned from international frameworks**

### Abstract

The study of human anatomy has historically, been associated with a thorny ethical past. As the use and dissection of the human body has been the cornerstone for teaching anatomy, both the sourcing and the display of these bodies raised uneasiness within society. Over the centuries the ethics of dealing with the dead has evolved and improved due to the persistence of anatomists and their professional societies. However, new challenges to the ethical use of human remains have arisen as technology has advanced and as society has changed. Engaging with these challenges is important to those anatomists and clinicians who wish to uphold the dignity and respect for the dead and to continue the use of human remains for training the next generation of health sciences professionals. Issues arising in recent years concerning the use and respect for dead bodies include the continued use of unclaimed bodies, the widespread utilization of digital images, as well as public display and dissection of human bodies. Central to these issues is how anatomists perceive and protect the sanctity of the human body, what their perception is of consent, and whether the current trends in the use of human remains lie within the social mores of contemporary society.



## Prof. Dr. Altuhami Abdel Mageed

Professor, Unaiza Institute of Higher Education, Qassim, Kingdom of Saudi Arabia



### Title

**The Role of stem cell research in the enhancement of medicine, taking hair follicle bulge stem cells as an example**

### Abstract

Stem cells are undifferentiated cells capable of developing into different types of functional cells. They are of different types; embryonic and adult stem cells, and pluripotent, multipotent and unipotent stem cells. Hair bulge stem cells are multipotent cells found in a cell bulge located in-between the insertion of the arrector pili muscle and opening of the sebaceous gland. The main function of bulge stem cells is production of new hair follicles and participation in tissue regeneration. The bulge cells are readily accessible cells that can be utilised for cell therapy and regenerative medicine. All murine bulge stem cells are CD34+ve; cycling ones are LGR5+ve whereas quiescent ones are LGR5-ve. Human bulge stem cells are CD200 +ve, KRT15 +ve, KRT19 +ve.

Three methods are used for isolation of bulge stem cells, namely microdissection, enzymatic digestion and fluorescence-activated cell sorting (FACS). Hair bulge stem cells contribute normally to hair follicle development and hair growth, in epidermal renewal and injury regeneration. For cell replacement therapy and regenerative medicine bulge stem cells are good candidates for wound healing and repair, skin expansion in reconstructive surgery, treatment of alopecia, male pattern baldness, peripheral nerve injury treatment (e.g. sciatic nerve) and skin repigmentation therapy. The vast majority of data about hair bulge stem cells have been obtained from studies on murine hair bulge cells; similar studies on humans are meager. Recently we undertook a study to investigate on human bulge stem cells. Samples were collected by dermatologist at afferent clinics in Qassim region, Saudi Arabia by excision or plucking. The bulge was then obtained by microdissection and enzymatic digestion. Bulge stem cells were identified by specific markers (CD200, CD34, KRT15, CD63, nestin). Ultrastructural characteristics and morphometric analysis were performed in transmission electron micrographs. Results will be discussed

## Dr. Cheah Pike See

Professor of Anatomy, Malaysia



### Title

**Viral Vector-Mediated Gene Therapy for Neuro-cutaneous Disorders - A Promising Frontier in Therapeutic Advancements and Future Prospects**

### Abstract

Neurofibromatosis (NF) is a rare genetic disorder leading to benign nerve tumors and growths. It comprises two distinct types—neurofibromatosis type I (NF1) and type II (NF2). Despite their shared name, NF1 and NF2 differ significantly clinically and genetically, both falling under the umbrella of neurocutaneous syndromes.

NF1, affects the Schwann cells (SCs) within nerves. These benign tumors are caused by the loss of function of the protein, neurofibromin, encoded in NF1. AAV-mediated gene therapy is a promising strategy but transduction of SCs is inefficient. We developed a novel semi-quantitative (in vivo bioluminescence imaging) mouse model of NF1 neurofibroma for in vivo selection strategy with a peptide display AAV serotype 9 library. A novel AAV capsid, AAV-CAP.NF was identified that it exhibited superior transduction capabilities compared to AAV9 and an engineered variant, AAV-F. Gene expression analysis demonstrated the enhanced performance of AAV-CAP.NF, particularly in SCs, essential for NF1-related tumor biology. This innovative tool shows promise in exploring neurofibroma biology and testing NF1 gene therapies in a murine model facilitates advancing future medical breakthroughs.

NF2, arises from merlin protein loss encoded in NF2, triggering mTOR pathway activation. We presented a gene replacement method by injecting AAV expressing merlin into a human schwannoma model in mice. In vitro, AAV1-merlin reduced size and mTORC1 pathway activation in NF2-null cells. In vivo, a single AAV1-merlin injection into NF2-null tumors in murine sciatic nerve led to tumor regression over 10 weeks, reducing dividing cells and increasing apoptosis. These findings highlight the potential of merlin re-expression via gene replacement as an effective treatment for NF2, offering hope for future therapeutic advancements in addressing this disorder's underlying mechanisms and providing a novel approach for combating NF2-associated schwannomas.

## Dr. Michael KH Ling

Developmental Neurogeneticist and an Associate Professor in the Faculty of Medicine and Health Sciences, University Putra Malaysia

### Title

**Human induced Pluripotent stem cells derived neural model to understand Neurological Disorders**

### Abstract

The advent of human induced pluripotent stem cells (hiPSCs) has revolutionized translational neuroscience, offering unprecedented opportunities to model neurodevelopmental and neurodegenerative disorders *in vitro*. Patient-derived hiPSCs for disease modelling allow the recapitulation of patient-specific genetic backgrounds and cellular phenotypes during disease onset and development. By reprogramming somatic cells into a pluripotent state, hiPSCs can be differentiated into various neural lineages, including neurons, astrocytes, and oligodendrocytes, faithfully representing the complexity of the human brain. HiPSC-derived 3D cerebral organoids or mini-brains in a dish have been proven beneficial to model more complex neurological disorders such as neurodegenerative and neuropsychiatric diseases in elucidating the pathogenic mechanisms underlying neurodevelopmental basis of Alzheimer's disease, bipolar disorder and Down syndrome. These models recapitulate disease-specific phenotypes, such as protein aggregation, mitochondrial dysfunction, and synaptic loss, enabling screening potential disease-modifying therapies and personalized medicine approaches. Integrating hiPSC-derived neural models with cutting-edge genomic technologies, such as CRISPR/Cas9 genome editing and single-cell/bulk RNA sequencing, can unravel the genetic architecture of complex neurological traits and identify disease-associated genetic variants. In conclusion, hiPSC-derived neural models offer unprecedented opportunities to dissect the molecular and cellular mechanisms underlying neurological disorders and accelerate the development of precision therapies.





## Dr. Zahid Ali

MBBS, M.Phil, Ph.D.



### Title

**Booster Dose-Bridging the gap of Anatomical knowledge in modular Curriculum**

### Abstract

In 2009, the College of Medicine King Saud University, Riyadh switched from a traditional course-based curriculum to a system-based **(Integrated Curriculum)**. The college also adapted PBL as one of the tools of learning. In traditional curriculum time allocated for anatomy was 16 hours/week: 13 hours for the first year (9 hours for lab and 4 hours for lectures) and 3 hours for the second year. The first-year anatomy course included all but the head and neck and neuroanatomy.

In the newly adapted system-based curriculum (block system), the faculty of anatomy faced two difficulties: a drastic reduction of anatomy lab time and difficulty in discussing some regions for example anatomy of the neck. The Neuropsychiatry block is given 12 weeks and neuroanatomy including head & neck anatomy is specified 21 for class teaching and 10 hours for Anatomy lab sessions.

To overcome these challenges we introduced a one-week anatomy course-“Booster **Dose**” during mid-semester, mid-year breaks, and summer vacations. The course is usually divided into interactive 8-10 class sessions and 16 lab sessions. The intern's and clinical student's input is one of the major factors in selecting the topics. Even though this is a paid course and scheduled during break time, the courses are well received by preclinical, clinical, interns, physiotherapists, and other specialties.



## Dr. Mughees Sheerani

MBBS, Fellow ABN (American Board of Neurology)

### Title

**Neuroanatomy to Neurosciences: A Neurologist's perspective**

### Abstract

Neurosciences is one of the most challenging and dynamic fields of all sciences. Exponential growth in neurosciences has played a direct role in understanding diseases and their treatments in Neurology.

Taking an example of a common neurological disease like Temporal Lobe Epilepsy, we can witness how anatomy, behavioral neurology, genetics, basic neurophysiology, neurochemistry, neuropharmacology, neuropathology and neuroradiology come together and play a pivotal role in understanding and treating this disease.

Through a typical case of Mesiotemporal Sclerosis, which is a well-defined anatomical and histological epilepsy, we will see how disruption of electrical signals occur. These signals are themselves generated by differences in potentials across the cell membranes of neurons which is remarkably regulated by a very specific ionic flow through precise and complex channels /receptors that control total balance of inhibitory and excitatory potentials. Imbalance of the signals can disrupt the electrical circuit across the region and then eventually to the other parts of the brain through a network of fibers resulting in a seizure. All these mechanisms can potentially malfunction and are also potential targets for treatment.

With modern techniques we can evaluate each and every step of this complex circuit and its anatomy, physiology and pathology and offer its treatment. This has transformed the field of neurology from an academic 'observational' science to now a cutting edge field that provides curative and specific treatments of the diseases of nervous system.



## Prof. Dr. Uruj Zehra

MBBS, M.Phil, Ph.D.

Associate Professor of Anatomy at the University of Health Sciences Lahore

### Title

**Research training and Affective Anatomy Pedagogy- A Crucial Connection**

### Abstract

The teaching of anatomy is undergoing a transformative shift with the adoption of modern philosophies, approaches, and effective teaching and learning strategies. Since modern medicine programs are transitioning into an evidence-based practice, the anatomists are facing pressures of adapting to evolving modes of medical education and assessment, including reduced contact hours and limited resources to teach an extremely diverse group of students with different sets of prior scientific literary levels, cultural backgrounds, and experiences. Thus, it is important for anatomists to explore innovative, engaging, and multimodal means to encourage proactive and deep learning, and to develop long-term memory in students to improve student engagement and learning outcomes that align with their professional goals. For that an effective focused approach to train our anatomy faculty is vital, as enhancing research skills can empower educators to innovate instructional approaches, foster critical thinking among students, and promote a deeper understanding of anatomical concepts. Such research training will not only promote evidence-based teaching practices but also encourage collaborative efforts between researchers and educators to enrich anatomy education. Research proficiency can help anatomy educators to contribute to the broader academic discourse, their continuous pursuit of knowledge through up-to-date research, scholarly publications and conference presentations will expand their breadth of subject understanding.

Recognizing the symbiotic relationship between research training and anatomy pedagogy is crucial for advancing anatomical education and fostering lifelong learning within the biomedical sciences.



**Prof. Dr. Khalid M. Khan**

MSc, MS, Ph.D.

### **Title**

**Effects of Intraventricular Infusion of Quinolinic Acid on Spatial Learning and Memory in Young Rats**

### **Abstract**

#### **Introduction**

Quinolinic acid (QA), metabolite of kynurenine pathway of tryptophan metabolism, is a known neurotoxicant. QA toxicity affects hippocampal, striatal and cortical neurons. QA induces tau phosphorylation and reduces the expression of serine/threonine phosphatases. These effects are associated with age-related memory loss. (41 words)

#### **Methodology**

Effects of intraventricular infusion of QA (in 21-day old rats for 7 days) on spatial learning and memory were investigated. Infusion of same volume of normal saline served as vehicle control (VC). Learning and memory were assessed by Morris Water Maze test on postnatal day 30 (PND30) and PND45. (49 words)

#### **Results**

Two-way ANOVA analysis revealed that learning was significantly impaired in QA-infused rats at PND30 but not at PND45. Short-term memory (STM) showed significant memory deficits in QA-infused rats at both PND30 and PND45, whereas long-term memory (LTM) showed no significant difference either at PND30 or PND45. (46 words)

#### **Conclusion**

These results show that intraventricular infusion of QA causes learning and STM impairment, but has no significant effect on LTM. It is tempting to speculate that the difference in STM and LTM results is due to time-dependent clearance of QA.



## Prof. Dr. Masood Umer

MBBS, FCPS

Orthopedic surgeon, Agha Khan University

### Title

### Anatomical landmarks during knee arthroplasty

### Abstract

Total knee arthroplasty is a specialised procedure where all arthritic cartilage and osteophytes are removed and replaced by a new metallic joint. It is imperative for any orthopedic surgeon to be familiar with the anatomical landmarks in the knee area for a successful execution of this procedure.

Our skin incision is usually midline over the knee joint. The centre of the Patella is pivotal for marking the incision and we tend to stay medial to the tibial tuberosity to avoid a painful scar. This becomes important especially when the patient is obese, where these landmarks are difficult to identify. Capsule is then cut medial to the Patella and then is extended down medial to the Patellar tendon, which must be saved at all costs for future knee function. After this we remove the menisci and the cruciate Ligaments cauterising the lateral inferior geniculate artery just lateral to the middle horn of the lateral meniscus. Bony cuts are then made, and we match flexion and extension gaps. Patients who have flexion contracture require additional resection of the distal femur as well as may require recession of the gastrocnemius heads on the medial and lateral sides of posterior femur. This recession must be done carefully through the joint saving the neurovascular bundle in the midline. The releases for a varus knee are usually on the medial side for deep medial collateral ligament, which is totally released, and the superficial medial collateral, which is partially released subperiosteally. Knowledge of location of Posterior oblique ligament is essential as it is the last to be released in this sequence. Sometimes, in severe cases, Pes Anserinus muscles is also released, so their insertion also needs be carefully identified. Similarly, in Valgus knees we routinely do pie crusting of the postero-lateral capsule taking care not to go deep enough with the knife to injure the common peroneal nerve behind. Iliotibial band is released distally from the Gerdy's tubercle to improve the exposure laterally. The Popliteus tendon, postero-laterally, must be identified and saved during excision of the lateral meniscus. In addition, sometimes we need to identify medial and lateral epicondyles very accurately for epicondylectomies in severe valgus or varus cases so that the collateral ligaments are completely released. Occasionally, in revision cases, we must do tibial tubercle osteotomy or quadriceps snip surgery from the top to improve the exposure of the knee joint.

These are all important anatomical landmarks which the surgeon must know in detail before starting a knee arthroplasty procedure. Accurate anatomical knowledge and understanding of their respective functions is essential for a successful execution and outcome of this procedure.



## Prof. Dr. Rufina Somroo

MBBS, FCPS, FRCS, FACS,  
Professor, Liaquat National Hospital & Medical College



### Title

**Insights into Breast Anatomy: A road map for a successful surgical outcome**

### Abstract

In this presentation, we will explore the intricate anatomy of the breast and its critical clinical significance in surgery. Understanding the various structures within the breast is essential for surgical success and optimal patient outcomes.

We will examine the external appearance and internal structures of the breast, including the muscles surrounding the breast, highlighting their importance in surgical procedures like reconstruction.

We will explore the arterial and venous blood supply, emphasizing the need to maintain adequate perfusion to prevent complications such as tissue necrosis.

We will discuss the innervation of the breast and its relevance in preserving sensation during surgery.

Lymphatic drainage and the role of lymphatic vessels and nodes are important to discuss particularly in the context of breast cancer metastasis and staging. We will highlight the importance of techniques like sentinel lymph node biopsy in surgical planning and treatment decisions.

Throughout the presentation, we will try to underscore the clinical significance of breast anatomy in various surgical procedures, including lumpectomy, mastectomy, and breast reconstruction. Understanding the anatomical structures allows surgeons to plan surgeries effectively, minimize complications, and achieve optimal cosmetic outcomes.

In conclusion, a thorough understanding of breast anatomy is crucial for surgeons, not only in enhancing surgical precision but also in ensuring the best possible outcomes for patients. By integrating anatomical knowledge with surgical practice, we can advance the field of breast surgery and improve patient care.

## **Prof. Dr. Nabila Kaukab**

MBBS, MPhil, MHPE

### **Title**

**Navigating the Transition; Student Empowerment through Active Learning**

### **Abstract**

Anatomists and Anatomy curricula are under lot of pressure these days due to changing modes of medical education and assessment, reduction in contact hours and an extremely diverse group of students with different, educational and cultural backgrounds.

The talk explores the relationship between diverse learning style and preferences of the learners and the use innovative, engaging and multimodal means to encourage proactive and deep learning of Anatomy in medical students.

Central to the talk is the development of learning outcomes and assessment processes that align with professional goals and favor the development of competences related to skills, attitudes and behaviors, ensuring that the curriculum remains relevant and does not lose its focus in an age of information overload.

Ultimately the presentation advocates the cultivation of conducive educational environment by fostering a culture of innovation and continuous improvement through a well-structured faculty development program.



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## **Prof. Dr. Masood Ahmed**

MBBS, M.Phil, Ph.D.

Principal, Fazaia Ruth Pfau Medical College

### **Title**

**A Comprehensive Journey through the History of Anatomy and its Transformative Achievements of the Past Century**

### **Abstract**

This presentation offers a comprehensive overview of the history of Anatomy exploration, highlighting key figures, theories, and technological advancements that have shaped our understanding of the complex body systems and organs. It emphasizes the interdisciplinary nature of Anatomy and underscores the importance of historical context in driving scientific progress.



## **Prof. Dr. Saima Athar**

MBBS, FCPS

Professor, Department of Anatomy, Liaquat National Hospital and Medical College

### **Title**

**Anatomy and Art: The Intersection of Science and Creativity**

### **Abstract**

The fascinating intersection of anatomy and art, through an exploration of anatomical representations in artistic expression and the creative perspective that brings the study of anatomy to vivid life.

She will highlight the profound connections between artistic beauty of the anatomical drawings of Leonardo Davinci to Frank Netter's visually stunning, clinically relevant, and easily understandable illustrative excellence that has provided exceptional clarity, precision, and unique ability to simplify complex anatomical structures.



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## **Prof. Dr. Zia- Ul-Islam**

MBBS, M.Phil. (Anatomy), MCPS (HPE)

HoD, Department of Anatomy, Liaquat National Hospital & Medical College

### **Title**

**The Role of Healthcare Teachers; Challenges & Opportunities**

### **Abstract**

Medical Teachers play a pivotal role in shaping the education and training of both Undergraduate and Postgraduate students in the field of medicine. Their responsibilities extend beyond simply delivering lectures. They serve as mentors, role models, and facilitators of learning, this talk is about the role and challenge of medical teacher's in context of Today's advancement in medical education.



### **Prof. Dr. Bushra Wasim**

MBBS, FCPS, Ph.D. (Anatomy)

Professor and HoD, Department of Anatomy, Ziauddin Medical University

#### **Title**

**Illuminating Paths, fostering thinkers and paving the future landscapes for Anatomy Ph.D. program in Pakistan**

#### **Abstract**

The pursuit of a Ph.D. has always been synonymous with pushing the boundaries of human knowledge. Today, we find ourselves at a crossroads, where traditional paradigms meet the transformative forces of the digital age with advanced imaging techniques, which are evolving with every passing minute and the future of PhD education is not merely a continuation of the past; it is a dynamic and evolving entity that demands our attention.

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### **Prof. Dr. Mariyah Hidayat**

MBBS, M.Phil, Ph.D.

Assistant Professor, Department of Anatomy, University College of Medicine & Dentistry UoL

#### **Title**

**Crafting Compelling Medical Research Papers: Transforming Data into Publication**

#### **Abstract**

This presentation focuses on how to craft compelling medical research papers. Prof Mariyah will explore the structural elements of a well-constructed paper, from introduction to conclusion, stressing the importance of clarity and coherence throughout. Navigating the peer review process will emerge as another critical aspect of the talk, where she will discuss the importance of constructive feedback and meticulous revisions in refining the research work. Practical tips for effective medical writing will be provided, including early planning, seeking feedback, and embracing persistence. Additionally, she will touch upon the role of AI in manuscript writing, acknowledging its growing influence in assisting researchers with tasks such as language editing, reference management, and even data analysis.





## **Prof. Dr. Ambreen Usmani**

MBBS, M.Phil, Ph.D.

Professor, Department of Anatomy, Jinnah Medical and Dental College

### **Title**

**Usage of artificial intelligence and virtual reality in medical studies**

### **Abstract**

Human beings of the modern age have become a part of the digitized life. The individuals of the contemporary world have adopted novel ways of acquiring knowledge and proficiency in skills by using Artificial Intelligence (AI) and Virtual Reality (VR) as their teaching and learning modalities. AI is the simulation of human intelligence processes by machines, specifically by computer systems. Various applications of this technology include expert systems, natural language processing, speech recognition and machine vision. On the other hand, VR is the computer generated simulation of a three- dimensional image or environment that an individual can interact with in a seemingly real or physical way. A person can do so by using special electronic equipment, such as a helmet with a screen mounted in it or gloves fitted with sensors.

The future of our generations lies in the hands of the present day academicians so the earlier they are drenched in the technology pool, the better it is for them to get used to the innovations around them.



## Free Paper Presentation

### Dr. Syna Pervaiz Singha

MBBS, M.Phil, Ph.D., CHPE

Chairperson and Associate Professor, Department of Anatomy, Isra University, Hyderabad

#### Title

**Evaluation of alterations in Astrocytic morphology associated with Bisphenol – A induced Anxiety Linked Behavior in Rat offspring**

#### Abstract

The study found that exposing rat offspring to Bisphenol a (BPA) resulted in anxiety-linked behavior. BPA also decreased the number of astrocytes in their brain cells. This shows that BPA exposure during critical neurodevelopmental periods can cause anxiety-related behavior with changes in the astrocytic brain cells.

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### Dr. Muhammad Ali Rabbani

MBBS, FCPS (Anatomy)

Assistant Professor of Anatomy, CMH Multan Institute of Medical Sciences, Multan

#### Title

**Effect of Early Post-Natal Growth Restriction and Catch-Up Growth on the Cardiac Histology in Rats: A Preterm Birth Model**

#### Abstract

This study examines the cardiac effects of early post-natal growth restriction and catch-up growth in a murine model of preterm birth. Malnourished rats with catch-up growth exhibited adverse cardiovascular consequences in the long-term while normal growth led to normal cardiovascular health.



### **Dr. Hina Jabeen**

MBBS, M.Phil (Anatomy)

Senior Lecturer, Department of Anatomy, DIKIOHS, DIMC, DUHS

#### **Title**

**Isolation and Characterization of amniotic fluid stem cells and their differentiation towards nephron progenitor cells**

#### **Abstract**

Amniotic fluid stem cells (AFSCs) have the potential to give rise to multiple types of cells in the body, making them valuable in regenerative medicine. We isolated and characterized a small percentage of Cd117 positive AFSCs from samples, then differentiated them towards NPCs using specific growth factors.

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### **Dr. Maria Mohiuddin**

M.Phil (Anatomy)

Assistant Professor, Department of Anatomy Hamdard College of Medicine & Dentistry

#### **Title**

**Anatomical Variants of Renal Vasculature: A Study in Adults on Multidetector Computerized Tomography Angiography Scan**

#### **Abstract**

12.5% of Pakistanis have chronic renal disease, but little is known about renal vascular anatomy. A study of 250 adults in Karachi found that 73.6% had one renal artery and 26.4% had an accessory renal artery. This information is important for surgical and radiological procedures, such as renal transplants and vascular interventions.



### **Dr. Zumirah Atiq**

M.Phil (Anatomy)  
Senior Demonstrator, M Islam Medical College, Gujranwala

#### **Title**

**A Comprehensive Exploration through Ct-Guided Pedicle Morphometry of Lumbar Vertebrae in Pakistani Population**

#### **Abstract**

This study analyzed the pedicle dimensions of lumbar vertebrae in a Pakistani population. The study found that there are racial and gender differences that should be considered when using transpedicular screw systems. The knowledge of lumbar spine anatomy is essential for both neurosurgeons and anesthetists.

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### **Dr. Rahat Bano**

M.Phil (Anatomy)  
Assistant Professor, Fazaia Ruth Pfau Medical College

#### **Title**

**Chromosomal Aberrations in Children with Congenital Hydrocephalus**

#### **Abstract**

Congenital hydrocephalus is a common condition in Pakistan caused by an imbalance in cerebrospinal fluid. A study on 96 patients found that HCP is mainly communicating, and no chromosomal abnormalities were detected.



### **Dr. Samia Khalid Khokhar**

Assistant Professor, Department of Anatomy, Bahria University Health Sciences Campus, Karachi

#### **Title**

**Correlation of Developmental Dysplasia of Hip in Newborns with Mode of Presentation on Graf Method Ultrasound**

#### **Abstract**

DDH is a common anomaly in infants and children. Ultrasound of hip joints is the most accepted method for diagnosing it. A study of 115 healthy newborns found that the mode of delivery was significantly associated with dysplasia. Using ultrasound, dysplasia can be detected in the first 28 days after birth.

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### **Dr. Amatul Sughra**

MBBS (Medicine)

Lecturer, Department of Anatomy, Hamdard College of Medicine & Dentistry

#### **Title**

**Comparison of Morphometric Parameters of Third Ventricle among Males and Females and Its Relevance with Age**

#### **Abstract**

Age-related changes in the brain can lead to ventricular dilatation, affecting brain morphology. To assess these changes, the 3rd ventricle was measured for its dimensions on MRI. The study found that the length of the 3rd ventricle was greater in females, while width and height were greater in males. Age was also found to affect the dimensions of the ventricle. These findings can be helpful in managing and treating brain diseases.



## Dr. Qurat-Ul-Ain Khan

MBBS, FCPS (Radiation Oncologist)

Assistant Professor (Radiation Oncology), Ziauddin Medical University

### Title

**Human amniotic epithelial cells (HAECs); a potential cell type for the hepatic disorders**

### Abstract

Using small molecules, HAECs were isolated and differentiated into hepatic-like cells. The cells were characterized and observed under a microscope. The isolated HAECs express stem cell markers, and the differentiated cells express hepatic markers, making them a potential source for treating liver diseases.

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## Dr. Sahrish Mukhtiar

MBBS, MPhil, CHPE, Ph.D. Scholar,

Associate Professor, Department of Anatomy, Jinnah Medical & Dental College

### Title

**Cup to Disc Ratio (CDR). A Window to Different Ophthalmic Conditions**

### Abstract

CDR is a measure used to assess optic nerve health. We found that CDR varies between individuals and is affected by factors such as glaucoma, refractive errors, and smoking. It can be a valuable tool for early detection of nerve damage.



### **Dr. Ayesha Saba Naz**

MBBS, M.Phil (Anatomy)

Associate Professor, Department of Anatomy, Bahria University Health Sciences Campus, Karachi

#### **Title**

**Comparative Evaluation of Lamina Cribrosa Anatomical Parameters with Retinal Nerve Fiber Layer Thickness Defects in Primary Open-Angle Glaucoma Cases and Controls**

#### **Abstract**

Glaucoma is a condition that affects the optic nerve leading to glaucomatous optic nerve neuropathy (GON). A case-control study was conducted at Al-Ain Eye Institute, which showed that assessments of ALCD and LCT can provide important prognostic evidence about RNFLT, assisting in future planning of mild and moderate cases suffering from POAG.

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### **Dr. Maria Zafar**

MBBS, M.Phil (Anatomy)

Senior Demonstrator, Al-Aleem Medical College, Lahore

#### **Title**

**Alteration in the expression of vascular endothelial growth factor and poor bone healing is linked with uptake of NSAIDS**

#### **Abstract**

This study aimed to compare the effects of selective COX-2 and non-selective COX NSAIDs on femoral fracture healing in rats. The results showed that using non-selective COX NSAIDs can be a significant risk factor for bone healing. Therefore, their administration should be avoided in high-risk patients.



## Student Paper Presentation

Abstract Title	Presenter(s)	Institution
Exploring Medical Students Perspectives: Bedside Teaching Versus Simulation Labs in Clinical Education	Hafsa Khan	Fazaia Ruth Pfau Medical College
Understanding Knowledge and Attitude of Postpartum Depression among the Social Support System of Gravidarum Women: A Multi-centered Study	Jawaria Shahzad	Fazaia Ruth Pfau Medical College
Practice of breast self-examination among female health care workers	Sara Ijaz, Rukhsar	Liaquat National Hospital & Medical College
Infra-orbital Hyper-pigmentation (Dark Circles): A Study of its Prevalence, Etiology and association with other dermatological symptoms among young adults	Mustafa Hussain Imam	Liaquat National Hospital & Medical College
Awareness of male infertility among general population	Harris Iqbal Qazi	Liaquat National Hospital & Medical College





## Poster Presentation

Poster Title	Presenter(s)	Qualification/ Designation	Institution
Evaluation of protective role of vitamin E against mono sodium glutamate-induced ovarian damage in female rat model	Dr. Piriha Abbasi	MBBS, M.Phil (Anatomy)	Fazaia Ruth Pfau Medical College
Virtual learning of Anatomy in the times of pandemic- A questionnaire based study	Dr. Fatima Rehman	MBBS, M.Phil (Anatomy), Assistant Professor, Department of Anatomy	Liaquat National Hospital and Medical College
Ethnopharmacological effects of Nigella Sativa on Cyclosporine induced splenotoxicity in rat model	Dr. Nadia Younus	MBBS, M.Phil (Anatomy), Assistant Professor, Department of Anatomy	Jinnah Medical and Dental College
Effect of Remdesivir in thickness of germinal epithelium of seminiferous tubules of testes of albino rats	Dr. Tahir Hussain	MBBS, DLO, M.Phil Senior Lecturer, Department of Anatomy	United Medical and Dental College
Comparison of Anatomical and Functional Characteristics of Lamina Cribrosa between Primary Open-Angle Glaucoma Patients and Controls	Dr. Ayesha Saba Naz	MBBS, M.Phil (Anatomy), Associate Professor, Department of Anatomy	Bahria University Health Sciences
The Effect of Energy Drink on Histomorphological Changes in Skeletal Muscles of Wistar Albino Rats	Dr. Fatima Rehman	MBBS, M.Phil (Anatomy), Associate Professor, Department of Anatomy	Liaquat National Hospital and Medical College

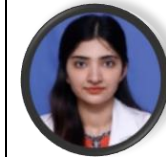
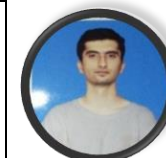
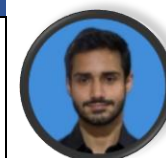


Cornsilk Extract Protects Hepatotoxic Effect of Doxorubicin in Albino Rats	Dr. Amber Shami	B.SC, MBBS, M.Phil (Anatomy), Assistant Professor, Department of Anatomy	UHS
Amelioration of Carbamazepine-induced Splenic toxicity by Vitamin E	Dr. Asma Basharat Ali	MBBS, M.Phil (Anatomy), Assistant Professor, Department of Anatomy	Jinnah Medical and Dental College
Morphological & Biochemical Study of Ethanolic Fruit Extract	Dr. Lubna Faisal	MBBS, M.Phil (Anatomy), Assistant Professor, Department of Anatomy	Liaquat National Hospital & Medical College
Effects of Lysergic Acid Diethylamide (LSD) On Cell Necrosis by Reduction of TNF-alpha Expression; A Review Article	Dr. Sajidah Walji	Pharm.D, M.Phil, Clinical Pharmacist	Jinnah University for Women
Assessment of normal renal size in healthy individuals in Pakistan and its influencing factors: A cross-sectional study	Dr. Zakiuddin Oonwala	MBBS, FRCS (Edin.) FICS(Hon.), Professor, Department of Anatomy	Hamdard University

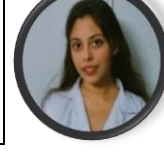


## Student Poster Presentation

Poster Title	Presenter(s)	Institution
The role of S1P receptor modulators in IBD: A Systematic Review and Meta-Analysis	Muhammad Abdullah Tahir, Ayat-Ul-Karam	Fazaia Ruth Pfau Medical College
Assessing the Impact of Climatic Change on Human Health: A comprehensive study of Medical Student's Perception	Syed Muhammad Abdullah Shah	Fazaia Ruth Pfau Medical College
Students perception on their engagement and problem solving skills	Zuhair Ahmed	Fazaia Ruth Pfau Medical College
Perspective of TBL Among Undergraduate Students (of FRPMC) in Integrated Modular System	Safa Safa, Aleeha Maryam	Fazaia Ruth Pfau Medical College
Efficacy and Safety of varying dosage of Gefapixant in Patients with chronic cough: A Systematic Review and Meta-Analysis of Randomized Controlled Trials	Muhammad Hudaib	Fazaia Ruth Pfau Medical College
Student's perspective of simulation based learning	Aliza Fatima	Fazaia Ruth Pfau Medical College



Efficacy and Safety of Ivermectin-Albendazole Combination versus Ivermectin or Albendazole Monotherapy in Soil-Transmitted Helminthiasis: A Systematic Review and Meta-Analysis	Hurais Malik, Musarrat Faraz	Fazaia Ruth Pfau Medical College
Role of LMS in medical curriculum-Research poster	Maryam Mirza, Fatima Amir	Fazaia Ruth Pfau Medical College
Introducing 'MOODLE' as a Formative Assessment Tool: Perception of Medical Students	Mehreen Mukhtiar	Fazaia Ruth Pfau Medical College
Harnessing Anatomy for Addressing Reproductive Health Challenges in digital Era and Beyond	Mahnoor Ayesha	Fazaia Ruth Pfau Medical College
Quality of family communication patterns among students of LNMC	Ramsha Saeed, Ramsha Jamal	Liaquat National Hospital & Medical College
Factors hindering voluntary blood donation practice among health care workers	Mehak Hashmi, Syed Ahmed Hasan Askari, M. Osama Siddique	Liaquat National Hospital & Medical College



## Conference Speakers

### International Speakers

#### **Prof. Dr. Beverly Kramer**

President (IFAA) International Federation of Associations of Anatomist, Emeritus Professor, School of Anatomical Sciences, faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa

#### **Biography**

Prof. Beverley Kramer (BSc, BSc Hons, PhD) is Professor of Anatomy in the School of Anatomical Sciences, and Assistant Dean: Research and Postgraduate Support in the Faculty of Health Sciences at the University of the Witwatersrand. Prof Kramer's main field of research is in embryology and developmental biology. She has published widely and has presented her research at numerous international and local congresses. She is currently President of the International Federation of Associations of Anatomy (2015-2019).



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#### **Prof. Dr. Altuhami Abdel Mageed**

Unaiza Institute of Higher Education, Qassim, Kingdom of Saudi Arabia

#### **Biography**

Prof. Dr. Altuhami Abdelmageed is a Ph.D. in electron microscopic ultrastructure from the University of Liverpool, England. He is a Professor and higher education consultant at Unaiza Educational, Qassim, Kingdom of Saudi Arabia (since 2022), formerly a professor of Anatomy and Histology at the College of Medicine, Qassim University (2001 - 2021) teaching cytology, histology and embryology to medical, dental, nursing and pharmacy students and students of applied medical sciences. During this period, Professor Abdelmageed held many positions (e.g. HOD of Anatomy and Histology, Director of the Research Center, Supervisor of the Premed phase), and acted as chair or member of many Qassim University boards and committees. Prof. Abdelmageed has over 70 publications in reputable scientific journals and proceedings of scientific conferences. Fields of research included arterial chemo- and baroreceptors, hair bulge stem cells, ultrastructural studies on a wide array of tissues and tissue responses to medicinal plants. Technical expertise includes electron microscopy, immunohistochemistry, histomorphometry and autoradiography. Professor Abdelmageed has four published books in the Arabic language and has also well-supervised and examined several postgraduate students (MS, PhD) in Saudi Arabia, Sudan and Iraq.



### **Dr. Cheah Pike See**

Professor of Anatomy, Malaysia

#### **Biography**

Dr. Cheah is an Anatomist and Neuroscientist with her research focus to identify and to understand the function of causative genes for neurodevelopmental disorders and neuropsychiatric diseases. Her sabbatical training in Massachusetts General Hospital / Harvard Medical School, USA has broadened her research experience in various fields including stroke, cancer biology, gene therapy, and extracellular vesicles. As an active member of Malaysian Society of Neurosciences (MSN), Asian Pacific Society for Neurochemistry (APSN) and recently as the Chair of the International Brain Research Organization-Asia Pacific Research Committee (IBRO-APRC), she helps to promote collaborative networks between clinical and non-clinical neuroscientists as well as to improve the quality of the neuroscience research in Malaysia and internationally. Dr. Cheah also wishes to materialize the dream of effective translation from bench to bedside and ultimately, to extend her role by reaching out to the society to disseminate knowledge on the relevance of her research for better management and treatment of neurological disorders.

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### **Dr. Michael KH Ling**

Developmental Neurogeneticist and an Associate Professor in the Faculty of Medicine and Health Sciences, University Putra Malaysia

#### **Biography**

Dr. Michael KH Ling has an interest in the field of Neurogeneticist, genomics, and bioinformatics. He pursued his Ph.D. in Neurogeneticist at Professor Hamish Scott's laboratory, University of Adelaide, Australia. He won a Dean's Commendation for An Outstanding Thesis Award and the CCB Award for his doctoral dissertation entitled, "Identification of transcripts involved in differentiation, proliferation and developmental networks of the mouse cerebral cortex". He spent about 4-year as the IBRO/ISN Postdoctoral Research Fellow in Professor Bruce Yankner's laboratory at Harvard Medical School, Boston, USA. Dr. Ling is an active member of the Malaysian Society of Neurosciences and was the past Vice President and Honorary Treasurer of the society. He was also the Malaysian representative to the Governing Council of International Brain Research Organization (IBRO) (2012-2019) and Federation of Asia-Oceania Neuroscience Societies (FAONS). Currently he is the elected council member of Asia Pacific Neurochemistry Society (APSN) (2020-2024). He is a strong advocate of science outreach programs in the country via the Young Scientists Network-Academy of Science Malaysia (YSN-ASM) (2012-2021), a prestigious network that he served as one of the protem committee members during its establishment.



## **Dr. Zahid Ali**

MBBS, M.Phil, Ph.D.

### **Biography**

Dr. Zahid Ali serving as Faculty at College of Medicine, King Saud University Saudi Arabia since 2003. Earlier He was a faculty at Ziauddin Medical College, Karachi from where he also obtained his post graduate qualifications in Anatomy. He has more than 25 years of experience and a passion for teaching. He is committed to fostering a deeper understanding of anatomy among his students. Through engaging lectures, hands-on demonstrations, and interactive discussions, he strives to instill not only knowledge but also a profound appreciation for the elegance of the human body. His Passion to uncover the secrets and gain a deeper appreciation for the incredible complexity of the human body is reflected by popularity of his summer courses among graduate& postgraduate students.





## National Speakers

### Prof. Dr. Rufina Somroo

MBBS, FCPS, FRCS, FACS,  
Professor, Breast Surgeon, Liaquat National Hospital & Medical College

#### Biography

Dr. Rufina Soomro is a leading breast surgeon, working at Liaquat National Hospital and Medical College in Karachi and has been very active when it comes to the adoption of new techniques and treatments for breast-related issues. Not only is she a highly skilled surgeon, but she is also a very prolific researcher, having written 70 different research papers, given numerous talks, and led many campaigns over the course of her long career. Dr. Rufina Soomro has promoted taking a multi-disciplinary approach to breast cancer, incorporating radiology, oncology, surgery, etc. Dr. Rufina Soomro likes to raise awareness on issues relating to one's health and has been informing the public on these issues throughout her career. Her research into breast cancer includes a number of extensive studies, some of which took many years to complete. Her study on the relationship between late-stage breast cancer and age in Pakistan is particularly extensive, sampling over 10,000 patients over the course of two decades. This study found that most women are only diagnosed with the illness when they have already reached stage 2. She puts in her hours at the breast surgery, general surgery, wounds, and telemedicine clinics so she sees a wide range of issues on a regular basis. These issues include all kinds of cancers (intestine, rectum, thyroid, lymphoma, etc.) and issues like hemorrhoids.



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### Prof. Dr. Bushra Wasim

MBBS, FCPS, Ph.D.  
Professor and HoD, Department of Anatomy, Ziauddin Medical University

#### Biography

Prof. Dr. Bushra Wasim is a medical graduate, Surgeon and Ph.D in the subject of Anatomy. Currently she is serving as Professor and Head of the Anatomy department at Ziauddin University Karachi.





### **Prof. Dr. Khalid M. Khan**

MSc., MS, Ph.D.

#### **Biography**

Prof. Dr. Khalid M. Khan has a long association with Aga Khan University, where he has worked as an Assistant Professor, Associate Professor and Professor. In 2006, he moved to Kuwait University as a Professor and Chairman in the Department of Anatomy till 2018. Recently he joined back AKU, Department of Biological & Biomedical Sciences as Professor of Anatomy. He completed his studies for the MS from Columbia University in 1976 and his Ph.D. degree at New York University in 1980. He has earned Excellence in teaching awards and has acted as a mentor for medical students for three decades. His research interests are vertebrate auditory system, neurotoxicity and its effects on cognition and learning. He has over 50 publications in peer-reviewed journals. He is a member of the American Association of Anatomists, the Association for Research in Otolaryngology and the Society for Neuroscience. To his Credit are 64 Original publication, three books.

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### **Prof. Dr. Masood Umer**

MBBS, FCPS

Orthopedic surgeon, Agha Khan University

#### **Biography**

Prof. Dr. Masood Umer is an accomplished orthopedic surgeon serving as a Professor of Orthopedic Surgery at Aga Khan University Hospital and Medical College in Karachi. A graduate of AKU and a seasoned surgeon, he has enriched his expertise through various clinical fellowships abroad, specializing in orthopedic oncology, arthroscopy, and joint replacement. Additionally, he underwent rigorous training in Bone and Skeletal Tissue Banking at the National University of Singapore. Dr. Umer is credited with pioneering the introduction of pelvic surgery, Ilizarov techniques, orthopedic oncology, and advanced arthroscopic skills courses in Pakistan. With an impressive portfolio of 128 peer-reviewed publications, he has chaired numerous national and international orthopedic meetings and currently serves as the Chairperson of the Pelvic & Acetabulum Forum at the Pakistan Orthopedic Association (POA). Renowned for his guest lectures and keynote presentations at various conferences, he has also played pivotal roles as the chief organizer and chair of national orthopedic and surgical conferences. Dr. Umer's leadership extends to his role as the former President of ASAMI-Pakistan, where he orchestrated the collaboration with ASAMI-Egypt to organize the inaugural International Conference of ASAMI-Pakistan in 2017, held in Karachi.



### **Prof. Dr. Masood Ahmed**

MBBS, M.Phil, Ph.D.

Principal, Fazaia Ruth Pfau Medical College

#### **Biography**

Professor Masood Ahmed currently serving as Principal and Professor of Anatomy at Fazaia Ruth Pfau Medical College Karachi. He is elected Vice President of Anatomical Society of Pakistan for the 2022-2025 term. He graduated in 1989 from Liaquat Medical College Hyderabad and soon after Joined Baqai medical college, Karachi as faculty in the department of Anatomy. In 1998, he joined Basic Medical Sciences Institute JPMC Karachi for post graduate studies. He currently holds the qualifications of MPhil and PhD in the subject of Anatomy. In the year 2007, he Joined College of Medicine, Qassim University, Saudi Arabia. During his stay at KSA, he won two substantial research grants, which later published in International journals. Prof Masood is a recognized supervisor for the MPhil and PhD & FCPS programs in Anatomy by HEC and CPSP. He is the only Pakistani Anatomist whose name is included in the reviewer's list in the 40<sup>th</sup> Edition of the Gray's Anatomy. He has more than 35 publications to his credit in national and international Journals.



### **Prof. Dr. Nabila Kaukab**

MBBS, M.Phil, MHPE

#### **Biography**

Prof. Dr. Nabila Kaukab is currently associated with the University of Lahore Medical College as chairperson Department of Anatomy and faculty at the Department of Medical Education. During her MHPE, she developed a passion for innovation in undergraduate teaching. As part of the curriculum development team of UCMD, she played a pivotal role in revising and revamping the Anatomy curriculum. Her team developed and implemented innovative teaching and learning strategies to complement the curricular changes and foster student engagement thereby facilitating a comprehensive understanding of complex anatomical concepts At UCMD, she has been involved in developing a robust evidence-based assessment system including the shifting of assessments to online computer-based assessments. She is part of the DME with a particular focus on improving the quality of clinical and preclinical skills through the conduction of workshops on OSCE development, faculty development, Clinical audit and feedback from students.



## **Prof. Dr. Saima Athar**

MBBS, FCPS

### **Biography**

Dr. Saima Athar Shaikh is a fellow of College of Physicians and Surgeons Pakistan and presently working as Professor of Anatomy at Liaquat National hospital & Medical College. Earlier, she served as head of Department Anatomy at Chandka Medical College Larkana. She is dedicated to exploring and implementing various teaching and learning strategies tailored to the needs of undergraduate and postgraduate students. From innovative approaches to traditional methods, she believes in the power of adaptation and creativity to engage and inspire learning. She is a member editorial board, Journal of Liaquat National Hospital (JLNH). Additionally, as a proficient facilitator, she conducts regular workshops aimed at enhancing the skills of healthcare professionals. She Leads research projects in collaboration with various clinical disciplines and her work is showcased through publications in peer-reviewed journals and presentations at both national and international conferences.

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## **Prof. Dr. Mariyah Hidayat**

MBBS, M.Phil and Ph.D. in Anatomy Medical editor and Journalist

### **Biography**

Prof. Dr. Mariyah Hidayat currently serving as a Professor of Anatomy at the University of Lahore, and the Chairperson of the PBL Committee for 2nd-year MBBS students. As a Ph.D. holder in Anatomy, her training encompasses a wide array of subjects, including anatomy, biostatistics, molecular biology, genetics, and immunology, epidemiology, and research methods. She takes pride in having 31 published articles in peer-reviewed journals, both locally and internationally. She expanded her knowledge by finishing Harvard Medical School's one-year program on "Effective Medical Writing for Health Care" in 2022-23. She also earned a diploma in medical journalism from James Lind Institute, Switzerland in August 2023. Dr. Mariyah also initiated a university journal called the "Journal of University College of Medicine and Dentistry" in January 2022, and it received indexing by HEC in 2023. She also served as a managing editor of this journal.



### **Prof. Dr. Zia-Ul-Islam**

MBBS, M.Phil. (Anatomy), MCPS (HPE)

#### **Biography**

Prof. Dr. Zia-Ul-Islam is a professor of Anatomy and teaching undergraduate and postgraduate for more than three decades. He is presently working as departmental head at Liaquat National Hospital and Medical College since 2015. Previously, Dr. Zia-Ul-Islam was working at Bahria University Medical and Dental College as Vice Principal and Head of Anatomy Department from 2008 till 2014. Professor Zia-Ul-Islam is also qualified medical educationist for more than 13 years associated with his institute and the College of Physicians and Surgeons Pakistan.



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### **Prof. Dr. Uruj Zehra**

MBBS, M.Phil, Ph.D., Associate Professor of Anatomy at the University of Health Sciences Lahore

#### **Biography**

Dr. Uruj Zehra received her Bachelor in Medicine and Surgery (MBBS) from the Rawalpindi Medical College, Pakistan. After obtaining her Master of Philosophy (MPhil) from the University of Health Sciences Lahore, she moved to the UK where she obtained her PhD in anatomy from the University of Bristol in 2015. Dr. Zehra also spent 2 years as a Post-doctoral fellow at the University of Hong Kong. Her research focus is on Spinal anatomy and its clinical applications. She is currently working on various teams at UHS including a medical Education team to introduce student-centered pedagogy at UHS and affiliated colleges.



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### **Dr. Mughees Sheerani**

MBBS, Fellow ABN (American Board of Neurology)

#### **Biography**

Dr. Mughees Sheerani is a Medical Graduate and Fellow American Board of Neurology and Psychiatry. He is a highly qualified medical Professional with over 27 years of experience in Neurology. After Returning to U.S, he joined Aga Khan University as a faculty and Associate Dean. Later he moved to SIUT. He has a Special interest in raising awareness about the curableness of neurologist disease.



### **Prof. Dr. Ambreen Usmani**

MBBS, M.Phil, Ph.D.

Professor, Jinnah Medical and Dental College

#### **Biography**

Prof. Dr. Ambreen Usmani is the Principal of Jinnah Medical and Dental College Karachi. She also served briefly as Professor of Anatomy at Jinnah Sindh Medical University. She has held prestigious positions as Head of Anatomy Department, Principal and Dean at Bahria University Medical and Dental College Karachi, Pakistan. She is also a visiting faculty and program director of the MCPS-HPE program at the College of Physicians and Surgeons Pakistan. She also holds the position of honorary program director for MCPS-HPE at the College of Physicians and Surgeons since June 2014. She has supervised over 30 postgraduate students in Anatomy and Health Professions Education and is a HEC approved supervisor. She has 2 books to her credit and also attained a fellowship in Senior Women's Leadership from Michigan State University-United States of America.



## Pre-Conference Workshops

S.No	Facilitator(s)	Title	Venue	Date & Duration
1	Dr. Muhammad Israr Nasir	karyotyping/ Cytogenetics: An Introduction to Applications & Advancement	Fazaia Ruth Pfau Medical College	17 <sup>th</sup> April-2024, Wednesday 10am - 2pm
2	Dr. Muhammad Israr Nasir	Gene Polymorphism Analysis by PCR	Fazaia Ruth Pfau Medical College	18 <sup>th</sup> April-2024, Thursday 9:30am - 1:30pm
3	Dr. Rubina Khan	Killer Rhythms-ECG	Fazaia Ruth Pfau Medical College (Department of Cardiology)	19 <sup>th</sup> April-2024, Friday 10am - 1pm
4	Dr. Meesum Abbas	Exploring the Middle Meatus: Unveiling the Anatomy & Functionality	Fazaia Ruth Pfau Medical College (Department of ENT)	20 <sup>th</sup> April-2024, Saturday 10am - 1pm
5	Dr. Zarine Mogal Dr. Kauser Mehmood Dr. Hiba Mehmud	Anatomical Localization of Epileptic Foci: EEG	Fazaia Ruth Pfau Medical College (Department of Neurology)	23 <sup>rd</sup> April-2024, Tuesday 10am - 1pm
6	Dr. Zahid Miyan Prof. Tahir Ansari	Diabetic Foot Complications-How to Step towards Healthy Feet	Fazaia Ruth Pfau Medical College	24 <sup>th</sup> April-2024, Wednesday 1:30pm - 4:30pm

7	Prof. Dr. Zahid Akhtar Rao Emeritus Prof. Dr. Saeeda Haider Prof. Dr. Safia Zafar Siddiqui	Nerve Blocks for Chronic Headaches: Significance of Anatomical Landmarks	Fazaia Ruth Pfau Medical College (Department of Anaesthesia)	24 <sup>th</sup> April-2024, Wednesday 9:30am - 1pm
8	Prof. Beverly Kramer	Teaching embryology to understand human anatomy	Fazaia Ruth Pfau Medical College	26 <sup>th</sup> April-2024, Friday 9:30am - 12:30pm
9	Prof. Dr. Zia-Ul-Islam Prof. Dr. Saima Athar	Effective small group teaching through interactive & digital methods	Liaquat National Hospital & Medical College (Department of Anatomy & Medical Education)	18 <sup>th</sup> April-2024, Thursday 10am - 1pm
10	Prof. Dr. Hemant Kumar Dr. Maria Mohiuddin	Teaching of Anatomy through Ultrasound Imaging	Hamdard College of Medicine & Dentistry (Department of Anatomy & Radiology)	19 <sup>th</sup> April-2024, Friday 10am - 1pm
11	Prof. Dr. Shabnam Shamim Asim Dr. Nadeem Baig	Anatomical and Clinical Perspective on Reproductive Health (Fertility and Contraception)	Karachi Medical and Dental College (Skills Lab)	20 <sup>th</sup> April-2024, Saturday 9am - 12pm
12	Prof. Dr. Ambreen Usmani	Role of mentoring in developing emotional intelligence	Jinnah Sindh Medical University (Department of Anatomy)	21 <sup>th</sup> April-2024, Sunday 10am - 1pm
13	Dr. Aisha Qamar Dr. Yasmeen Mahar	Tissue Processing and Staining	Bahria University Health Sciences College (Department of Anatomy)	23 <sup>rd</sup> April-2024, Tuesday 9:30am - 1pm

14	Prof. Dr. Rizwana S. Waraich	RNA extraction-Hands on	Jinnah Medical & Dental College	24 <sup>th</sup> April-2024, Wednesday 9am - 11:30am
15	Prof. Dr. Rizwana S. Waraich	DNA extraction-Hands on	Jinnah Medical & Dental College	24 <sup>th</sup> April-2024, Wednesday 12pm - 2:30pm
16	Dr. Kevin joseph jerome Borges Prof. Dr. Bushra Wasim	Immunohistochemistry-Why & How	Ziauddin Medical University (Department of Anatomy & Research)	25 <sup>th</sup> April-2024, Thursday 9am - 1pm
17	Prof. Dr. Bushra Wasim Dr. Gulraiz Karim Rind Baloch	Virtual Dissection Using 3-D Anatomy table Anatomage	Ziauddin Medical University (Department of Anatomy)	25 <sup>th</sup> April-2024, Thursday 9am - 1pm
18	Prof. Dr. Mariyah Hidayat Dr. Saba Amjad	Tips & Tricks for improving the quality & Citations of your Manuscript	University College of Medicine and Dentistry UOL	22 <sup>nd</sup> April-2024, Monday 10am - 1pm



## Pre-Conference Workshops Details

### Dr. Muhammad Israr Nasir

(Ph.D. (Genetics), Affiliated ErCLG Mol. Genetics (EBMG))  
Associate Professor, Fazaia Ruth Pfau Medical College



#### Title

**Karyotyping/Cytogenetics: An Introduction to Applications & Advancement**

#### Workshop Date

**17<sup>th</sup> April-2024, Wednesday**

#### Activity Venue

**Fazaia Ruth Pfau Medical College**

#### Time of Workshop

**Start: 10:00am – End: 2:00pm**

#### Title

**Gene Polymorphism Analysis by PCR**

#### Workshop Date

**18<sup>th</sup> April-2024, Thursday**

#### Activity Venue

**Fazaia Ruth Pfau Medical College**

#### Time of Workshop

**Start: 9:30am – End: 1:30pm**

### **Dr. Rubina Khan**

MBBS, FCPS (Cardiology)  
Assistant Professor and HoD, Department of Cardiology,  
Fazaia Ruth Pfau Medical College

#### **Title**

**Killer Rhythms-ECG**

#### **Workshop Date**

**19<sup>th</sup> April-2024, Friday**

#### **Activity Venue**

**Fazaia Ruth Pfau Medical College**

#### **Time of Workshop**

**Start: 10:00am – End: 1:00pm**



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### **Prof. Dr. Maisam Abbas**

MBBS, FCPS  
Head, Department of ENT, Fazaia Ruth Pfau Medical College

#### **Title**

**Exploring the Middle Meatus: Unveiling the Anatomy & Functionality**

#### **Workshop Date**

**20<sup>th</sup> April-2024, Saturday**

#### **Activity Venue**

**Fazaia Ruth Pfau Medical College**

#### **Time of Workshop**

**Start: 10:00am – End: 1:00pm**



**Dr. Zarine Morgal**

MBBS, MD (Neurology)

**Dr. Kauser Mehmood**

MBBS, MRCP, MD (Neurology)

Assistant Professor, Department of Neurology, Fazaia Ruth Pfau Medical College

**Dr. Hiba Mahmud**

MBBS, MD (Neurology)

**Title**

**Anatomical Localization of Epileptic Foci: EEG**

**Workshop Date**

**23<sup>rd</sup> April-2024, Tuesday**

**Activity Venue**

**Fazaia Ruth Pfau Medical College**

**Time of Workshop**

**Start: 10:00am – End: 1:00pm**



### **Dr. Zahid Miyan**

MBBS, MCPS, MD

### **Prof. Dr. Tahir Ansari**

MBBS, MRCP-HPE, MRCP (Dublin), FRCP (Glasgow)

Professor of Medicine and Director of Medical Education at Fazaia Ruth Pfau Medical College

### **Title**

**Diabetic Foot Complications-How to Step towards Healthy Feet**

### **Workshop Date**

**24<sup>th</sup> April-2024, Wednesday**

### **Activity Venue**

**Fazaia Ruth Pfau Medical College**

### **Time of Workshop**

**Start: 1:00pm – End: 4:30pm**



### **Prof. Dr. Zahid Akhtar Roa**

MBBS, MCPS, FCPS, MSc (Pain Medicine)

Head, Department of Anesthesiology Pain and Intensive Care, Fazaia Ruth Pfau Medical College

### **Emeritus Prof. Dr. Saeeda Haider**

MBBS, MCPS, FCPS

Professor Emeritus, Indus Hospital

### **Prof. Dr. Safia Zafar Siddiqui**

MBBS, MCPS, FCPS, MSc (Pain Medicine)

Head, Department of Anesthesia Surgical ICU and Pain Management, DUHS, CHK and DMC

### **Title**

**Nerve Blocks for Chronic Headaches: Significance of Anatomical Landmarks**

### **Workshop Date**

**24<sup>th</sup> April-2024, Wednesday**

### **Activity Venue**

**Fazaia Ruth Pfau Medical College**

### **Time of Workshop**

**Start: 9:30am – End: 1:00pm**



### **Prof. Dr. Beverly Kramer**

President (IFAA) International Federation of Associations of Anatomist, Emeritus Professor, School of Anatomical Sciences, faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa

#### **Title**

Teaching embryology to understand human anatomy

#### **Workshop Date**

26<sup>th</sup> April-2024

#### **Activity Venue**

Fazaia Ruth Pfau Medical College

#### **Time of Workshop**

Start: 9:30am – End: 12:30pm

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### **Prof. Dr. Zia-Ul-Islam**

MBBS, M.Phil (Anatomy), MCPS (HPE)

Head, Department of Anatomy, Liaquat National Hospital and Medical College

### **Prof. Dr. Saima Ather**

MBBS, FCPS

Professor, Department of Anatomy, Liaquat National Hospital and Medical College

#### **Title**

Effective small group teaching through interactive & Digital methods

#### **Workshop Date**

18<sup>th</sup> April-2024, Thursday

#### **Activity Venue**

Liaquat National and Medical College (Department of Anatomy and Medical Education)

#### **Time of Workshop**

Start: 10:00am – End: 1:00pm



**Prof. Dr. Hemant Kumar**

M.Phil (Anatomy)

Head, Department of Anatomy Hamdard College of Medicine & Dentistry

**Prof. Dr. Maria Mohiuddin**

M.Phil (Anatomy)

Assistant Professor, Department of Anatomy Hamdard College of Medicine & Dentistry

**Title**

**Teaching of Anatomy through Ultrasound Imaging**

**Workshop Date**

**19<sup>th</sup> April-2024, Friday**

**Activity Venue**

**Hamdard College of Medicine and Dentistry (Department of Anatomy and Radiology)**

**Time of Workshop**

**Start: 10:00am – End: 1:00pm**



### **Prof. Dr. Shabnam Shamim Asim**

MBBS, FCPS, MCPS, MMED

Professor, Department of Gynecology & Obstetrics, Karachi Medical & Dental College

### **Prof. Dr. Nadeem Baig**

MBBS, M.Phil, Ph.D., CHPE

Head, Department of Anatomy, Karachi Medical & Dental College

### **Title**

**Anatomical and Clinical Perspective on Reproductive Health (Fertility and Contraception)**

### **Workshop Date**

**20<sup>th</sup> April-2024, Saturday**

### **Activity Venue**

**Karachi Medical and Dental College (Skill Lab)**

### **Time of Workshop**

**Start: 9:00am – End: 12:00pm**



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### **Prof. Dr. Ambreen Usmani**

MBBS, M.Phil (Anatomy), MCPS (HPE), Ph.D. (Anatomy),

Principal and Professor, Department of Anatomy, Jinnah Medical & Dental College

### **Title**

**Role of mentoring in developing emotional intelligence**

### **Workshop Date**

**21<sup>th</sup> April-2024, Sunday**

### **Activity Venue**

**Jinnah Sindh Medical University (Department of Anatomy)**

### **Time of Workshop**

**Start: 10:00am – End: 1:00pm**





### **Prof. Dr. Aisha Qamar**

MBBS, M.Phil

Professor, Department of Anatomy, Bahria University Health Sciences College

### **Prof. Dr. Yasmeen Mehar**

MBBS, M.Phil

Head & Professor, Department of Anatomy, Bahria University Health Sciences College

### **Title**

**Tissue Processing and Staining**

### **Workshop Date**

**23<sup>th</sup> April-2024, Tuesday**

### **Activity Venue**

**Bahria University Health Sciences College (Department of Anatomy)**

### **Time of Workshop**

**Start: 9:30am – End: 1:00pm**



## **Prof. Dr. Rizwana S. Waraich**

Ph.D., MSc.

Dean Faculty of Biomedical & Biological Sciences at Sohail University



### **Title**

**RNA Extraction- Hands on**

### **Workshop Date**

**24<sup>th</sup> April-2024, Wednesday**

### **Activity Venue**

**Jinnah Medical & Dental College**

### **Time of Workshop**

**Start: 9:00am – End: 11:30am**

### **Title**

**DNA Extraction- Hands on**

### **Workshop Date**

**24<sup>th</sup> April-2024, Wednesday**

### **Activity Venue**

**Jinnah Medical & Dental College**

### **Time of Workshop**

**Start: 12:00pm – End: 2:30pm**

### **Prof. Dr. Bushra Wasim**

MBBS, FCPS, Ph.D.

Professor and HoD, Department of Anatomy, Ziauddin Medical University

### **Prof. Dr. Kevin Joseph Jerome Borges**

MBBS, M.Phil, CHPE, CFM

Professor, Department of Anatomy, Ziauddin Medical University

### **Title**

**Immunohistochemistry-Why & How**

### **Workshop Date**

**25<sup>th</sup> April-2024, Thursday**

### **Activity Venue**

**Ziauddin Medical University (Department of Anatomy)**

### **Time of Workshop**

**Start: 9:00am – End: 1:00pm**



**Prof. Dr. Bushra Wasim**

MBBS, FCPS, Ph.D.

Professor and HoD, Department of Anatomy, Ziauddin Medical University

**Dr. Gulraiz Karim Rind Baloch**

MBBS, MPhil, Ph.D.

Assistant Professor, Department of Anatomy, Ziauddin Medical University

**Title**

Virtual Dissection Using 3-D Anatomy table Anatomage

**Workshop Date**

25<sup>th</sup> April-2024, Thursday

**Activity Venue**

Ziauddin Medical University (Department of Anatomy)

**Time of Workshop**

Start: 9:00am – End: 1:00pm



### **Prof. Dr. Mariyah Hidayat**

MBBS, M.Phil, Ph.D.

Assistant Professor, Department of Anatomy, University College of Medicine & Dentistry UoL

### **Dr. Saba Amjad**

MBBS, M.Phil

Assistant Professor, Department of Anatomy, University College of Medicine & Dentistry UoL

### **Title**

**Tips & Tricks for improving the quality & Citations of your Manuscript**

### **Workshop Date**

**22<sup>th</sup> April-2024, Monday**

### **Activity Venue**

**University College of Medicine and Dentistry UOL**

### **Time of Workshop**

**Start: 10:00am – End: 1:00pm**



# Life Time Achievement Award

## Prof. Dr. Nasra Hyder Kazi

Prof. Dr. Nasra Hyder Kazi born in the cosmopolitan City of Karachi and raised in the vibrant city of Lahore, she was born to a father who was a police commissioner and mother who was an educationalist. Medicine was not in her blood but in her soul. She graduated from King Edward Medical College in Lahore. For a very short time she was affiliated with Fatima Jinnah Medical College, found her parth as a research scholar and moved to Karachi, where she completed her M.Phil at Jinnah Postgraduate Medical Center. After completion, she moved to London where her journey of teaching started at the Prestigious Institute of St Bartholomew's Hospital London. She also had the distinction of being the first Asian to be accepted as lecturer at St Bart's Hospital in London.

Five years after being affiliated with the Institute she returned home with her family. Home was not Karachi nor Lahore from where the couple originally belonged but a city in Sindh called Hyderabad. Hyderabad was destined to be their home for the next 30 years. It will not be unfair to call Liaquat Medical College as her 2nd home, where she not only taught the required curriculum but ensured that her students left with more knowledge than they started with. Professor Nasra Hyder academically had all the makings to be declared as the one who could "profess", an abject definition of Webster's definition of the word: "to practice to be versed in a calling or profession". To teach Anatomy as her profession, she did so admirably, that it became a calling for her. She thus became recognized as a Professor by not only by her credentials but succinctly so by the multitudes she taught and cared for.

She is no longer with us, but what she did for the institution she served and for the students she taught; is a living testament to her high achievements in the social and cultural status of the city of Hyderabad.



# Life Time Achievement Award

## Prof. Amir Ali Shoro

Professor Amir Ali Shoro has an extensive academic background, having graduated from Sindh University, Jamshoro in 1961, followed by completing his M. Phil from BMSI, University of Karachi, in 1965, and obtaining his Ph.D. from the University of London in 1972. Throughout his distinguished career spanning over five decades, he has garnered recognition for his contributions, being awarded honorary fellowships from CPSP in 1990 and the National Academy of Medical Sciences, Pakistan in 1998. His teaching journey encompasses various prestigious institutions both nationally and internationally, including roles as a lecturer and senior lecturer at St. Thomas's Hospital Medical School, London, professor and chairman at Aga Khan University, Karachi, professor, chairman, and dean at Baqai Medical University, Karachi, among others. Additionally, he has chaired and actively participated in numerous academic committees, contributed to curriculum development, and served as an examiner for various degrees in multiple universities in Pakistan, Saudi Arabia, and the United Kingdom. Furthermore, his scholarly endeavors extend to publications in numerous national and international medical journals. Notably, he played a pivotal role in the establishment of prominent institutions such as Aga Khan University, Karachi, University of Health Sciences, Lahore, Dow University of Health Sciences (Ojha International Institute), Karachi, and Liaquat National Medical College, Karachi. Demonstrating his commitment to academic excellence, Professor Shoro has supervised M. Phil and Ph.D. students, reflecting his dedication to nurturing the next generation of medical professionals.



## Life Time Achievement Award

### **Prof. Dr. Attiya Mubarak Khalid**

Professor Dr. Attiya Mubarak Khalid, a distinguished academic figure, holds numerous esteemed positions in the field of medical education and administration. Currently serving as a Professor of Anatomy at Rahbar Medical College, Lahore (RMDC Lahore), she also holds the prestigious title of Dean at RMDC. With an illustrious career, Dr. Attiya has previously chaired significant institutions including the Punjab Healthcare Commission and the Board of Management at Gujranwala Medical College, Gujranwala. She has played pivotal roles as the Founding Principal and Project Director at Gujranwala MC/DHQ Gujranwala and as the Convener of the Board of Studies at the University of Health Sciences, Lahore (UHS LHR). Additionally, she has served as the Head of Department for Anatomy at King Edward Medical University, Lahore (KEMU), for a remarkable tenure of 17 years. Dr. Attiya's expertise extends to academic evaluation, as evidenced by her extensive review of nearly 1000 synopses in Basic Sciences and Behavioral Science, along with the examination of hundreds of theses from various esteemed institutions including UHS, NUST AMC, Quaid-e-Azam University, ISNU, and CPSP. She also holds advisory roles with organizations such as the Punjab Public Service Commission (PPSC) since 1994 and the Pakistan Medical and Dental Council (PM&DC) since 1998. Dr. Attiya's multifaceted contributions further include her engagements as the Chairperson of the M.Phil Coordination Committee at KEMU, a member of the Board of Studies at Punjab University, with her extensive experience and dedication, Professor Dr. Attiya Mubarak Khalid continues to be a beacon of excellence in medical education and administration in Pakistan.





# Life Time Achievement Award

## Prof. Dr. Nosheen Omer

Prof. Dr. Nosheen Omer is a senior academician and Professor of Anatomy. She graduated from Fatima Jinnah Medical College, Lahore in 1979 and MPhil from Punjab University in 1987. She has held various prestigious academic positions in the field of medical education and administration. Notably, she served as Principal/Chief Executive at Khawaja Muhammad Safdar Medical College, Sialkot, Controller of Examination at Allama Iqbal Medical College in Lahore, and Registrar Medical Education at the Post Graduate Medical Institute in Lahore. Additionally, she contributed significantly as an Additional Dean at the Post Graduate Medical Institute, Lahore and as an Adjunct Professor of Anatomy at the University of Health Sciences, Lahore, She is founding member of the team who started postgraduate in M.Phil Anatomy at AIMC Lahore. Prof. Nosheen has also been extensively involved in examination processes, serving as an External Examiner for various examinations such as M. Phil Anatomy, MD, MS, and Diploma Examinations, as well as Internal Examiner for M.Phil Anatomy, M.B.B.S, Allied Health Sciences, and nursing examinations at the University of Health Sciences. She been an active member of Faculty Committees of Anatomy at both the University of Health Sciences and King Edward Medical University in Lahore. Additionally, she has contributed to academia as a paper setter for examinations at various institutions including the University of Health Sciences Lahore, Punjab University Lahore, Fatima Jinnah Medical University Lahore, King Edward Medical University Lahore, and Baluchistan Public Service Commission examinations. She served as President, Anatomical Society of Pakistan from 2014 – 2022. During her presidency of ASP, she affiliated ASP with IFFA and organized many national and international conferences.



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