

# SHALAMAR SURGICAL SYMPOSIUM

 **22nd to 28th April, 2024**

## PROGRAM BOOKLET

Welcome to the 8th Shalamar Surgical Symposium!  
This year, our theme is "**Precision Surgery in the Era of AI and Robotics.**"

Join us for a dynamic and insightful event where we will explore the intersection of surgical precision with cutting-edge technologies.

The symposium will feature leading experts, 20 interactive sessions, and the latest advancements in the field of surgery.

### RSVP

Prof Dr Talat Waseem  
FRCS Eng, FACS, DM Harvard  
Chair Of Surgery & Allied  
0333 8078705

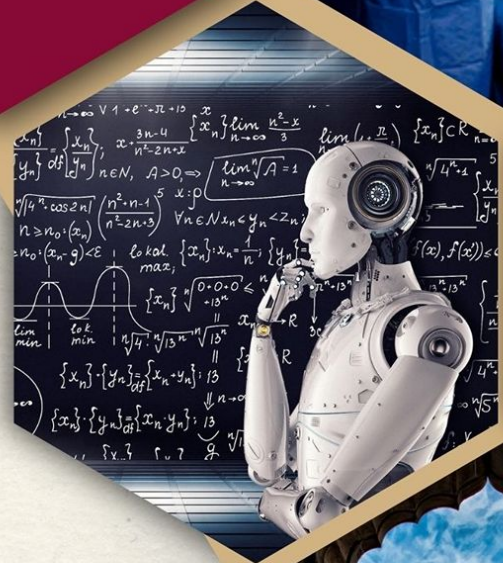
### MORE INFORMATION

Mr Waqas Arshad  
0333 4737402  
Mr Adeel Ahmad  
0314 3588066

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**Precision  
Surgery in  
Era of AI &  
Robotics**







## Dear Participants and Colleagues,

Welcome to the Shalamar Surgical Symposium 2024!

Hosted by the Shalamar Institute of Health Sciences, our symposium from April 22nd to April 28th revolves around the theme "Precision Surgery: Navigating the Future with AI and Robotics."

Artificial Intelligence (AI) and Robotics are transforming surgical practices. Join us as we explore innovations across various specialties, from Endocrine Surgery to Surgical Oncology, showcasing how AI and Robotics enhance precision and patient outcomes.

Through live demonstrations, workshops, and discussions, witness the practical applications of AI and Robotics in surgery. We prioritize surgical education to meet the demands of evolving technology.

Esteemed keynote speakers and panelists will share insights at the forefront of surgical innovation. Let's discuss the possibilities of precision surgery, advancements in robotic-assisted procedures, and the integration of AI in decision-making.

We encourage active engagement and contribution from all attendees. The Shalamar Surgical Symposium 2024 is a collaborative platform where ideas converge, innovations thrive, and excellence is celebrated.

We extend our gratitude to participants, sponsors, and organizers for their support. Let's navigate the future of surgery with vision, ingenuity, and a commitment to advancing patient care.

Welcome to the Shalamar Surgical Symposium 2024!

Warm regards,

**Prof Zahid Bashir**  
Principal  
Shalamar Medical and Dental College, Lahore





**Dear Participants and Colleagues,**

Welcome to the Shalamar Surgical Symposium 2024! Hosted by the prestigious Shalamar Institute of Health Sciences, this event brings together top minds in surgical excellence under the theme "Precision Surgery: Navigating the Future with AI and Robotics."

In today's evolving healthcare landscape, the integration of Artificial Intelligence (AI) and Robotics is reshaping surgical procedures. From April 22nd to April 28th, we'll explore groundbreaking advancements driving the future of surgical practice.

Our agenda covers various surgical specialties, highlighting the crucial role of AI and Robotics in improving precision and patient outcomes, from Endocrine to Surgical Oncology.

Through live demos, workshops, and discussions, participants will witness AI and Robotics in action across surgical disciplines. Our focus on surgical education ensures we address training needs in this technological era.

Esteemed keynote speakers and panelists will share insights at the forefront of surgical innovation, discussing precision surgery, robotic-assisted procedures, and AI integration.

I encourage active engagement and meaningful contribution to shape the future of surgical practice. The symposium serves as a collaborative platform for ideas and innovation.

Thanks to all participants, sponsors, and organizers for their support. Let's advance patient care together at the Shalamar Surgical Symposium 2024!

Warm regards,

**Dr. Ayesha Nauman**  
Chief Operating Officer  
Shalamar Hospital, Lahore





**Dear Colleagues, Participants, and Innovators,**

Welcome to the Shalamar Surgical Symposium 2024, a groundbreaking event at the forefront of surgical excellence. Hosted by the Shalamar Institute of Health Sciences from April 22nd to April 28th, this symposium focuses on "Precision Surgery: Navigating the Future with AI & Robotics."

In modern healthcare, the integration of Artificial Intelligence (AI) and Robotics is transforming surgical procedures. Over seven days, we'll explore innovation, advancements, and discussions shaping the future of surgical practice.

Our agenda covers diverse specialties, from Endocrine to Cardiovascular Surgery, unified by AI and Robotics. Collaboration across disciplines leads to breakthroughs in surgical practice.

Live demonstrations, workshops, and simulations offer hands-on experiences of AI and Robotics in surgery. Sessions on Surgical Education address training needs in this digital era.

Esteemed keynote speakers and panelists share insights at the forefront of technological innovation, exploring precision surgery and AI integration.

Join us in shaping the future of surgery. The Shalamar Surgical Symposium 2024 is more than a conference; it's a journey toward redefining surgical excellence.

Thanks to all participants, sponsors, and organizers. Let's navigate the future of surgery together.

Welcome to the Shalamar Surgical Symposium 2024!

Sincerely,

**Prof Talat Waseem**  
Chair of Surgery and Allied





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More info: M. Waqas 0333-4737402 Mr Adeel : 0314-3588066



# Shalamar Surgical Symposium Plan

Date/Day	Program	Time	Location	Focal Person
22-04-2024 Monday	Bariatric Surgery "Sculpting Obesity: AI-Driven Innovations in Bariatric Precision"	9:00 AM to 1:00 PM	Hospital Auditorium	Prof Maaz Ul Hassan
	Orthopedics and Reconstructive Surgery "Surgical Symphony: Harmonizing AI and Robotics in Orthopedic Precision"	08:00 AM to 10:30 AM	Lecture Hall II	Dr Muhammad Ali
	i) Ophthalmology Scientific Session "Role of AI In Ophthalmology: Enhancing Precision in Ophthalmology" ii) Ophthalmology Hand on Training Workshop "Ophthalmic Ultra Sound (A Scan & B Scan)"	11:00 AM to 1:30 PM	Lecture Hall II	Prof Khalid Mehmood
	Pediatric Surgery: Precise Pediatrics: Navigating the Role of AI and Robotics"	02:00 PM to 4:00 PM	Lecture Hall II	Dr Touseef Asghar
23-04-2024 Tuesday	Thoracic Surgery "Navigating the Chest: Robotic & AI-Enhanced Thoracic Techniques"	08:00 AM to 10:30 AM	Lecture Hall II	Dr M. Taha/ Dr Rizwan Ahmad Khan
	Anesthesia / Pain Management "Pain Management and Role of Artificial Intelligence in Future"	08:00 AM to 10:30 AM	Hospital Auditorium	Dr Aamir Bashir
	"Urological Precision: AI and Robotic Frontiers"	11:00 AM to 1:30 PM	Lecture Hall II	Prof Irfan Nazir
	Cardiac Surgery in the era of Artificial Intelligence	11:00 AM to 2:15 PM	Lecture Hall 1 ; Dissection Hal	Dr. Saima Jabeen
24-04-2024 Wednesday	Plastic & Reconstructive Surgery	02:00 PM to 04:00 PM	Lecture Hall II	Dr Sania Ahmad
	"Navigating Breast Health: AI-Enhanced Surgical Strategies"	8:00 AM to 10:30 AM	Lecture Hall II	Dr Sadaf Ishaque
	"Endocrine Excellence: Precision Pathways with AI and Robotics"	11:00 AM to 01:30 PM	Lecture Hall II	Dr Ahsan Shafiq
25-04-2024 Thursday	"Surgical Visions: Navigating Vascular Pathways with AI"	02:00 AM to 04:00 PM	Lecture Hall II	Dr Sabih Nofel
	"Navigating Oncological Frontiers: AI-Driven Innovations"	8:00 AM to 10:30 AM	Lecture Hall II	Prof Talat Waseem / Dr Ahsan Shafiq
	"Navigating the Biliary Maze: AI-Enhanced Strategies"	11:00 AM to 01:30 PM	Lecture Hall II	Dr Ahsan Shafiq
26-04-2024 Friday	"Precision in Motion: AI and Robotics in Colorectal Mastery"	02:00 PM to 04:00 PM	Lecture Hall II	Dr Ahsan Shafiq
	"Navigating the Future Surgeon: AI-Enhanced Educational Strategies"	08:00 AM to 10:30 AM	Lecture Hall II	Prof Talat Waseem
	AI & Robotics : Tools that a surgeon needs to know Aesthetics	11:00 AM to 1:30 PM	Lecture Hall II	Prof Talat Waseem/ Prof Touseef Asghar
02-05-2024 Thursday	"Beyond Beauty: Precision in Faciomaxillary Surgery through AI and Robotics"	11:00 AM to 1:00 PM	Hospital Auditorium	Dr Muhammad Umar Qayyum
	Unveiling Dynamic Trends and Innovative Solutions in ENT Surgery	09:30 AM to 11:00 AM	Lecture Hall 1	Dr. Arshadullah Afridi
04-05-2024 Saturday	Post-Conference Course for Maxillofacial Surgery and ENT Residents	08:00 AM to 04:00 PM	Lecture Hall 1	Dr M. Umar Qayyum



## International Speakers

### Flavio Rocha

Prof. Flavio G. Rocha, M.D., FACS, FSSO, is a distinguished Professor of Surgery in the Division of Surgical Oncology at the School of Medicine. He holds the prestigious Hugh Hedinger and Georgeina Hedinger Chair of Surgical Oncology within the same division, showcasing his expertise and leadership in the field. His extensive training includes a fellowship in Surgical Oncology and Hepatopancreatobiliary Surgery at Memorial Sloan-Kettering Cancer Center, emphasizing his dedication to advancing the treatment of complex cancers. Prof. Rocha's research interests in pancreas cancer and cholangiocarcinoma demonstrate his commitment to improving outcomes in these challenging diseases. His advocacy for multidisciplinary tumor management and active involvement in various surgical and oncological associations highlight his contributions to advancing the field of surgical oncology.



### Jonathan Russell

Dr Russell is Chief of the Division of Head and Neck Endocrine Surgery at Johns Hopkins. Dr. Jonathon Russell is also Director of the Division of Head and Neck Endocrine Surgery at Johns Hopkins University. His expertise lies in managing a wide range of thyroid and parathyroid surgical pathology, specializing in scarless transoral thyroidectomy and radiofrequency ablation of thyroid nodules. Dr. Russell is a pioneer in innovative thyroidectomy and parathyroidectomy techniques, including the transoral scarless approach using robotic technology, known as TOETVA. His dedication to patient communication, satisfaction, and safety, coupled with his leadership in various national committees and organizations, underscores his commitment to advancing the field of endocrine surgery.



### Max Plitt

Dr. Max Plitt is a distinguished ENT-otolaryngologist affiliated with Johns Hopkins Hospital, specializing in Head and Neck Endocrine Surgery. As an Instructor of Otolaryngology - Head and Neck Surgery, Dr. Plitt's expertise lies in managing a wide range of head and neck surgical pathology with a focus on endocrine disorders. His commitment to patient care, coupled with his affiliation with prestigious medical institutions, underscores his dedication to advancing the field of ENT surgery at Johns Hopkins.



### Azhar Khan

Azhar Khan is a consultant urological surgeon at King's College and Guy's Hospital London who specialises in the treatment of kidney cancer using robotic surgery. After completing FRCS (Urol) from Royal College of Surgeons in 2012, he completed a fellowship in Kidney cancer from King's College Hospital in 2013. In 2014, he was appointed consultant in a joint position across two of the largest teaching hospitals in the UK. He is currently the director for Urology and MDM cancer lead for all urological malignancies. Azhar is one of the highest volume surgeon for robotic partial nephrectomy in the UK and also specialises in robotic radical nephrectomy, robotic nephro-ureterectomy, pyeloplasty, adrenalectomy and Laser prostate surgery. He supervises the International robotic fellows and teaches robotics at various national and European courses. He has a Certificate in Postgraduate Education and has been the King's College London tutor for junior doctors. He has over 40 peer reviewed publications and remains an active clinical researcher in both benign and malignant kidney diseases.





### Ken Otouke

Ken Otouke is a distinguished plastic surgeon based in the UK, affiliated with SEANIC LIMITED. With a background in plastic surgery and a focus on innovative techniques, Mr. Otouke is dedicated to providing high-quality care to his patients. His expertise in the field of plastic surgery, as showcased through his professional appointments and affiliations, highlights his commitment to advancing the field and ensuring optimal outcomes for his patients.



### Dan Saleh

Dan Saleh is a highly accomplished and internationally recognized plastic surgeon with a wealth of experience and expertise in the field. As a Consultant Plastic Surgeon at Newcastle Hospitals NHS Foundation Trust and the head of the plastic surgery department, Mr. Saleh specializes in complex head, neck, and facial reconstruction, demonstrating his advanced skills in microsurgery and reconstructive procedures. His credentials include being on the GMC specialist register for plastic surgery, a member of prestigious associations like BAPRAS and BAAPS, and a recognized expert in facial aesthetic surgery and body contouring. Mr. Saleh's significant contributions to science are evident through his extensive publications on cosmetic surgery, his role as an invited speaker at national and international conferences, and his involvement in international research collaborations in plastic surgery. His commitment to providing individualized care, training the next generation of specialists, and delivering natural, lasting results underscores his dedication to advancing the field of plastic and cosmetic surgery.



### Maria Cardoso

Maria João Cardoso is a distinguished breast surgeon with a remarkable background in breast surgery and research. As the Head Breast Surgeon at the Breast Unit of the Champalimad Foundation, she has dedicated her career to advancing the field of breast surgery. Dr. Cardoso holds a PhD in Medicine focusing on the objective evaluation of aesthetic results in breast cancer conservative treatment, showcasing her commitment to improving patient outcomes. Her extensive research activities, including leading the Breast Research group at INESC Porto and being the Principal Investigator of the EU-funded CINDERELLA Project, highlight her significant contributions to developing objective ways of evaluating aesthetic results in breast surgery. Additionally, her involvement in founding a Support Centre for Breast Cancer Patients and active participation in European advocacy training demonstrate her dedication to enhancing the quality of life for breast cancer patients and advancing breast cancer care on a global scale.



### Lee Seung

Dr. Seung Duk Lee is a distinguished hepatobiliary surgeon at VCU Medical Center Main Hospital in Richmond, Virginia. With a wealth of experience and expertise in the field of hepatobiliary surgery, Dr. Lee is recognized for his significant contributions to the science of transplantation and minimally invasive liver surgery. His credentials include an MD and PhD from Seoul National University, along with extensive training in liver regeneration, liver cancer treatment, and innovative surgical techniques. Dr. Lee's commitment to patient-centered care and surgical excellence is evident through his leadership in living-donor liver transplants and liver cancer resections, with over 200 living-donor transplants and 300 liver cancer resections to his credit. His research on liver regeneration, photodynamic therapy for liver cancer, and new surgical approaches highlights his dedication to advancing the field of hepatobiliary surgery. Dr. Lee's pioneering work in laparoscopy and robotics has transformed surgical outcomes, emphasizing patient safety, quicker recovery, and improved cosmetic results.





### **Sherjeel Paul**

Dr. Sharjeel Hussain Paul is Consultant General Surgeon at Cork University Hospital, renowned for his expertise in Endocrine Surgery and Minimally Invasive procedures. With a distinguished background including MCh qualification, and fellowships from prestigious institutions such as FRCSI, FACS, FRCSEd, FEBS UEMS General Surgery, and FEBS Coloproctology, Dr. Paul exemplifies excellence in the field of surgery. His specialization in Endocrine Surgery underscores his commitment to treating disorders of the thyroid, parathyroid, and adrenal glands with precision and care. Dr. Paul's dedication to minimally invasive techniques highlights his focus on patient-centered care and optimal surgical outcomes. His extensive qualifications and experience position him as a leader in the field, contributing significantly to advancements in surgical practice and patient care at Cork University Hospital.



### **Stephen Stonelake**

Dr. Stephen Paul Stonelake is a distinguished surgeon with a broad expertise in various surgical specialties. His educational background includes a Bachelor of Medical Science with Honours, a Bachelor of Medicine and Surgery, and a Master of Science with Distinction in Clinical and Functional Anatomy. Dr. Stonelake's career has been marked by significant contributions to surgery through research, publications, and presentations. He has been actively involved in teaching, global surgery initiatives, and has received numerous awards and certifications for his work.



### **Amir Nisar**

Professor Amir Nisar is a distinguished Consultant General Surgeon with over 35 years of experience, specializing in Gastrointestinal and Bariatric Surgery. He obtained his medical degree from the University of Punjab, Pakistan, and holds fellowships from the Royal College of Physicians and Surgeons of Glasgow and the Royal College of Surgeons in the UK. Professor Nisar is renowned for his expertise in laparoscopic surgery and has been actively involved in teaching and training surgeons internationally. His scientific contributions include innovations in minimally invasive approaches, particularly in Laparoscopic Cholecystectomy, and advancements in safe and cosmetically superior laparoscopic surgical techniques. Professor Nisar's extensive experience, qualifications, and commitment to surgical excellence have positioned him as a leader in the field of gastrointestinal surgery.



### **Jawad Ahmad**

Professor Jawad Ahmad is a distinguished Consultant General, Laparoscopic, and Robotic Hepatobiliary and Pancreatic Surgeon based in the UK. With extensive experience in the field, he serves as a Professor at the University of Warwick and is actively involved in various professional roles, including being a Sub-editor for the Journal of Robotic Surgery and an examiner for the FRCS. Professor Ahmad's credentials include a significant background in laparoscopic and robotic surgery, with a focus on Hepatobiliary and Pancreatic procedures. His scientific contributions have been notable, particularly in the realm of robotic surgery, where he has played a key role in the growth of this field in the UK. His research works and expertise have significantly contributed to advancements in robotic surgical techniques, positioning him as a leading figure in the field of robotic surgery in the UK.





### **Najaf Siddiqui**



Mr. Najaf Siddiqui is a Consultant General and Colorectal Surgeon at University Hospitals of Dorset NHS Foundation Trust, UK. He completed his higher surgical specialty training in the Wessex Deanery, focusing on advanced minimally invasive surgery, including laparoscopic and robotic surgery. Mr. Siddiqui's research interests span surgical education, technology, and quality in colorectal cancer, leading to numerous publications and presentations. He holds a doctorate (M.D) in 'Testing the Utility of Biomarkers in Detecting Micrometastasis in Colorectal Cancer' from the University of Portsmouth. With expertise in minimally invasive colorectal and general surgery, he performs laparoscopic and robotic procedures for various conditions, including colorectal cancer and inflammatory bowel disease.

### **Usman Lashari**

Dr. Usman Lashari, MD, is a highly qualified family physician and dermatology specialist practicing in Newport and Barrington, Rhode Island. With over 22 years of experience, Dr. Lashari has established himself as a reputable healthcare provider in the region. He is affiliated with medical facilities such as Newport Hospital and Our Lady Of Fatima, showcasing his commitment to quality patient care. Dr. Lashari's expertise spans across family medicine and dermatology, making him a versatile practitioner capable of addressing a wide range of medical needs. Additionally, his role as the Associate Medical Director at East Bay Family Health Care center in Newport highlights his leadership and dedication to healthcare management. Dr. Lashari's scientific contributions and clinical experience position him as a valuable asset in the medical community, contributing to advancements in family medicine and dermatology practices.



### **Mateen Hotiana**

Dr. Mateen Hotiana is a distinguished endocrinologist known for his expertise in the field of endocrinology. He is an Assistant Professor of Medicine at Marshall University School of Medicine and is a staff physician at Cabell Huntington Hospital and St. Mary's Medical Center. Dr. Hotiana's clinical interests include diabetes mellitus, bone disorders, thyroid disorders, pituitary diseases, and adrenal diseases. He works closely with the endocrinology fellows and internal medicine residents during their inpatient rotations. Dr. Hotiana is Board certified in Endocrinology, Diabetes, and Metabolism. He is a member of the Endocrine Society and the American Association of Clinical Endocrinology.



### **Diego González Rivas**

Dr. Diego González Rivas, a renowned thoracic surgeon, holds a degree in medicine and surgery from the University of Santiago de Compostela. He completed specialized training in Thoracic Surgery and Lung Transplantation at the University Hospital of La Coruña. Dr. González Rivas is the creator of the Minimally Invasive Thoracic Surgery Unit (UCTMI) and serves as a staff surgeon at various hospitals worldwide. He is a pioneer in uniportal VATS surgeries, has published extensively, and actively contributes to numerous scientific societies and educational activities in the field of thoracic surgery.





# National Speakers





# National Speakers





# National Speakers





# National Speakers









# Inaugural Ceremony



# SHALAMAR SURGICAL SYMPOSIUM

 22nd to 28th April, 2024



Welcome to Honourable Chief Guest  
**Prof. Dr Khalid Masud Gondal**

Vice Chancellor of Fatima Jinnah Medical University  
President of CPSP, Pakistan

22nd April, Monday 2024

Time		
08:00 AM	Recitation of Holy Quran	
08:10-08:15	Welcome Address	Prof Zahid Bashir
08:15 to 08:20	Departmental Report	Prof Dr Talat Waseem
08:20 to 08:30	Inaugural Address	Prof Khalid Masood Gondal

RSVP: Organizing Committee





# Orthopedics and Reconstructive Surgery

22.04.2024 MONDAY

(8:00 AM TO 10:30 AM)

Location: Lecture Hall II

## Surgical Symphony: Harmonizing AI and Robotics in Orthopedic Precision



**Session Chair : Prof. Dr. M. Saleem**

**Moderator: Dr. M. Ali Shaikh**

Step into the realm of orthopedic excellence where AI and robotics converge to redefine precision in musculoskeletal care. From joint replacements to complex orthopedic reconstructions, witness the transformative impact of technology on patient outcomes and surgical mastery.

Time	Topic	Presenter
08:30 to 08:50	Innovation in removal of distal part of hallow broken femoral nail by close technique in treating femoral non-union	Dr. Faisal Karim
08:50 to 09:10	Essentials for optimum recovery after Arthroscopic ACL - reconstruction	Dr. Usman Sarwar
09:10 to 09:30	Current trend in Hip & Knee Aarthroplasty. Can Robotics & Navigation in joint replacement surgery is a viable option in Pakistan?	Dr. Muhammad Ali
09:30 to 10:00	A paradigm shift in management foot and Ankle problems	Prof. Dr. M. Saleem
10:00 to 10:30	Advances in Limb Salvage Surgery	Dr. Sabih Nofal

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# Bariatric Surgery

22.04.2024 Monday

(9:00 AM to 2:30 PM)

Location: Hospital Auditorium

## Sculpting Obesity: AI-Robotic-Driven Innovations in Bariatric Precision



**Session Chair : Prof Mumtaz Maher**

**Co-Chair: Prof Farooq Afzal**

**Moderator: Prof Maaz ul Hasan**

Embark on a journey of precision in bariatric surgery as we explore cutting-edge advancements fueled by artificial intelligence and robotics. Discover how technology is reshaping the landscape of weight management surgery with unparalleled accuracy and efficacy.

Time	Topic	Presenter
09:00 to 09:20	Predictive Analytics for Bariatric Outcomes: Harnessing the Power of Big Data	Prof Farooq Afzal
09:20 to 09:40	Robotic-Assisted Bariatric Surgery: Current Trends and Future Directions	Prof Maaz-ul Hasan
09:40 to 10:00	Telemedicine in Bariatric Care: Enhancing Follow-up and Support	Dr Tahir Younus
10:00 to 02:30	Live Surgery Session	Panel
	VSG to MGB	Prof Mumtaz Maher
	VSG to SADI	Prof Abul Fazal Ali Khan
	VSG to Roux en Y	Prof Farooq Afzal
	VSG to MGB	Prof Farooq Rana
		Prof M Zarin
		Dr Tanseer Asghar
		Dr Atif Shami

**Registration Fee PKR 4000/-**  
Focal Person: Dr Abeera  
0336 1147911

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# Ophthalmology Scientific Session

22.04.2024 MONDAY

(11:00 AM TO 12:30 PM)

LOCATION: LECTURE HALL II

## Role of AI In Ophthalmology: Enhancing Precision in Ophthalmology



**Session Chair : Prof Asad Aslam Khan PhD, SI**

**Co-Chair: Dr Muna Ahmad**

**Moderator: Prof Khalid Mahmood Najmi**

Illuminate the path to ocular precision with AI and robotics in ophthalmic surgery. From refractive corrections to intricate retinal procedures, witness the convergence of technology and surgical expertise in shaping the future of vision care.

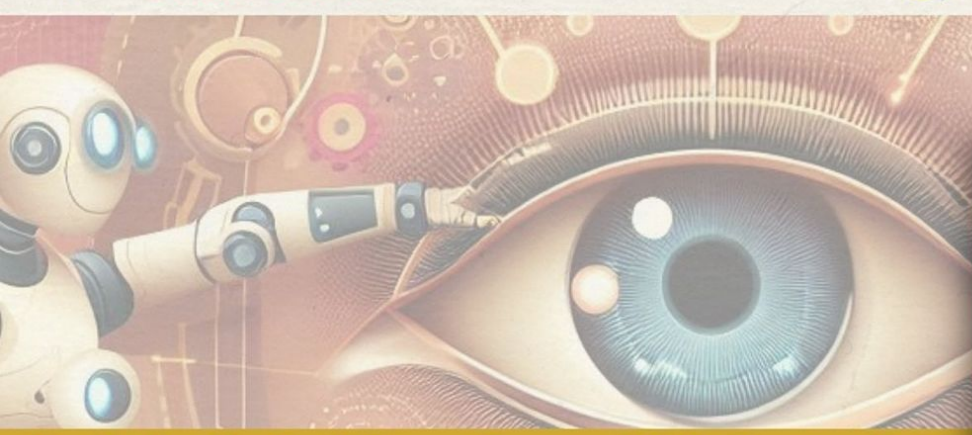
Time	Topic	Presenter
11:00 to 11:15	Insights into the Future: Artificial Intelligence and Corneal Topography in Modern Ophthalmology	Dr Rashid Nawaz
11:15 to 11:30	The AI Perspective: Revolutionizing Retina Examination and Diagnosis	Dr Umar Mian
11:30 to 11:45	Seeking Hope: Exploring New Treatment Avenues for Retinitis Pigmentosa	Dr Irfan Karamat
11 :45 to 12:00	AI at the Forefront: Experiencing Ophthalmology Advancements at AFICO <small>(Prof Asad Asalm)</small>	Dr Imran Basit
12:00 to 12:25	Visionaries Illuminated: Pioneering the Future of Ophthalmology Revolution	Dr Tayyaba Gull
12:25 to 12:30	Concluding Remarks by Chair	Prof Asad Aslam

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# Ophthalmology Hand on Training Workshop

22.04.2024 MONDAY  
(12:30 PM TO 02:00 PM)

LOCATION:  
OPHTHALMOLGY DEPART

## Ophthalmic Ultra Sound (A Scan & B Scan)



**Faciliatator: Dr Kashif Jahangir**  
**Moderator: Dr Nesr Farooq**

Illuminate the path to ocular precision with AI and robotics in ophthalmic surgery. From refractive corrections to intricate retinal procedures, witness the convergence of technology and surgical expertise in shaping the future of vision care.

Time	Topic	Presenter
12:30 to 12:45	Introduction to Ophthalmic Ultra Sound (A Scan & B Scan)	Dr Nesr Farooq
12:45 to 02:00	B Scan and its Interpretation Hands on activity	Dr Kashif Jahangir



# Pediatric Surgery

**22.04.2024 MONDAY**  
**(02:00 PM TO 04:00 PM)**  
**LOCATION: LECTURE HALL II**

## Precise Pediatrics: Navigating the Role of AI and Robotics



**Session Chair : Prof Nabila Talat**

**Co-Chair: Prof M Sahreef**

**Moderator: Dr Touseef Asghar / Dr Sajjad Bajwa**



Embark on a journey of surgical excellence tailored for the youngest patients, powered by AI and robotics. Discover groundbreaking interventions that safeguard pediatric health with precision, compassion, and unparalleled innovation.

Time	Topic	Presenter
02:00 to 02:20	Leveraging AI in Healthcare Focus on Pediatric Surgery	Prof Nabila Talat
02:20 to 02:40	Pediatric burn and mucormycosis an over looked issue	Dr Sajjad Bajwa
02:40 to 03:00	Burden of neural tube defects and way forward for their prevention	Prof M Shareef
03 :00 to 03:20	Urethroplasty: What is new?	Dr Asad Munir
03:20 to 03:40	Comparison of efficacy of intralesional bleomycin alone and in combination with Dexamethasone in the management of infantile Hemangioma - a randomized controlled trial	Dr Muhammad Adil Iftikhar
03:40 to 04:00	Panel Discussion	

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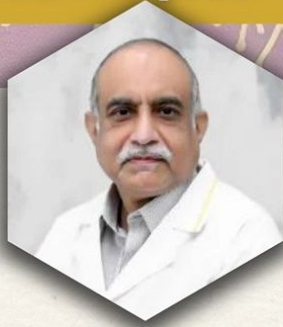
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# Thoracic Surgery

23.04.2024 TUESDAY  
(08:00 AM TO 10:30 AM)  
LOCATION: LECTURE HALL II

## Navigating the Chest: Robotic & AI-Enhanced Thoracic Techniques



**Session Chair: Prof Shoaib Nabi**

**Co-Chair: Prof Saleem uz Zaman Adhami**

**Moderator: Dr Muhammad Taha , Dr Rizwan Ahmad Khan**

Embark on a journey through thoracic precision as AI and robotics redefine surgical frontiers. Explore groundbreaking interventions that navigate complex thoracic disorders with unparalleled accuracy and efficacy.

Time	Topic	Presenter
08:00 to 08:20	Uniportal VATS and Robotic Thoracic Surgery: The Future	Diego González Rivas
08:20 to 08:40	Resuscitative Thoractomy	Prof Shoaib Nabi
08:40 to 10:30	Hands on Workshop on Resuscitative Throacotomy	Prof Shoaib Nabi

Join Zoom Meeting <https://us02web.zoom.us/j/89252856050> ; Meeting ID: 892 5285 6050

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More info: M. Waqas 0333-4737402 Mr Adeel : 0314-3588066



# Anesthesia / Pain Management

23.04.2024 TUESDAY

(08:00 AM TO 10:30 AM)

LOCATION: HOSPITAL AUDITORIUM

## Pain Management and Role of Artificial Intelligence in Future



**Session Chair : Prof M Mubeen**

**Co-Chair: Dr Itrat Kazmi**

**Moderator: Dr Aamir Bashir**

Time	Topic	Presenter
08:00 to 08:15	Pain Physiology	Dr. Ali Ahmed Sohail
08:15 to 08:30	Scope of chronic pain services	Dr Maida Akhtar
08:30 to 08:50	Role of Artificial Intelligence in Pain Management	Dr. Aamir Waseem
08:50 to 9:10	Role of RFA(Radio Frequency Ablation) in Low Backache	Lt Col Dr. M. Rashid Iqbal
09:10 to 09:30	Importance of Acute Pain Services in Hospital	Maj Gen (Retd) Prof. Dr. Amjad Iqbal
09:30 to 09:50	Chronic Pelvic Pain- A diagnostic Odyssey	Maj Gen (Retd) Prof. Dr. Liaqat Ali
09:50 to 10:10	Digital Transformation in operating theatres: friend or a foe?	Dr. Almas Iqbal
10:10 to 10:30	Cancer Pain Management	Dr. Ateeq ur Rehman Ghafoor
	Panel Discussion	

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# Urology and Uro-oncology

**23.04.2024 TUESDAY**  
**(11:00 AM TO 01:30 PM)**  
**LOCATION: LECTURE HALL II**

## Urological Precision: AI and Robotic Frontiers



**Session Chair : Prof Riaz Tasneem**  
**Co-Chair: Prof Abdul Mannan**  
**Moderator: Prof Irfan Nazir**

Witness the evolution of urological precision with AI and robotics shaping the future of urology and uro-oncology. Explore transformative interventions that redefine the standard of care with precision-driven strategies.

Time	Topic	Presenter
11:00 to 11:20	Pushing Boundaries in Partial Nephrectomy for renal Cancer Role of Robotic Surgery and 3D Reconstruction	Dr. Azhar Khan, Kings College London
11:20 to 11:40	Update on Management of Urothelial Cancer of Bladder	Dr. Hammad Athar Agha Khan University
11:40 to 12:00	Initial Experience of Robotics First Hundred Cases	Dr. Nadeem Bin Nusrat PKLI
12:00 to 12:20	REZUM our initial experience	Dr. Khizer Hyat Gondal
12:20 to 01:30	Panel Discussion	

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# Cardiac Surgery

**23.04.2024 TUESDAY**

**(11:00 AM TO 02:15 PM)**

**LOCATION: LECTURE HALL 1 & DISSECTION HALL**

## Cardiac Surgery in the era of Artificial Intelligence



**Session Chair : Prof. Aftab Younus**

**Co-Chair: Prof. Pervaiz Chaudhary, Dr Ahsan Arif**

**Moderator: Dr. Saima Jabeen**

Navigate the intricate pathways of Cardiac Surgery with precision-driven innovations in AI and robotics. Explore transformative techniques that restore function and alleviate disorders with unparalleled accuracy and efficacy.

Time	Topic	Presenter
11:00 to 11:10	Brief Introduction to Cardiac Surgery Department, Shalamar Hospital	Dr. Saima Jabeen
11:10 to 11:30	The potential applications of Artificial Intelligence in Cardiac Surgery	Dr. M. Hussain Alahmadi
11:30 to 12:00	Intelligence and The Heart Surgeon	Prof. Pervaiz Chaudhry
12:00 to 12:20	Experience of Minimally Invasive Cardiac Surgery in PIC/Shalamar hospital with limited resources	Prof. Aftab Yunus/Dr. Saima Jabeen
12:20 to 12:50	Future trends in Cardiac Surgery. Minimally Invasive Cardiac Surgery- Myth or Reality	Prof. Mazhar ur Rehman
12:50 to 01:15	Tea Break	
01:15 to 02:15	Wet lab: Coronary Anastomosis	Prof. Mazhar ur Rehman



# Plastic & Reconstructive Surgery

23.04.2024 TUESDAY  
(02:00 PM TO 04:00 PM)  
LOCATION: LECTURE HALL II

## Precision Aesthetics: Crafting perfection with AI and Robotics



**Session Chair : Prof Moazzam Tarar**  
**Co-Chair: Dr Asif Zubair Bhatti**  
**Moderator: Dr Sania Ahmad**

Time	Topic	Presenter
02:00 to 02:15	Introduction of AI and Its Application in Plastic Surgery	Associate Prof. Asif Zubair Bhatti Head of Plastic Surgery Shalamar Hospital
02:20 to 02:40	Modern Trends in Plastic Surgery Robotics and A I: Way to Go	Prof. Mustehsan Bashir Head of Plastic Surgery Mayo Hospital, Lahore
02:45 to 03:15	Robo Surgery (New Advent in Plastic Surgery)	Dr. Ken Otouke Consultant Plastic Surgeon Revitalise Clinic London
03:20 to 03:30	DIEP Flap: The New Paradigm Shift	Dr. Ken Otouke Consultant Plastic Surgeon Revitalise Clinic London
03:30 to 3:50	Digital Adjuncts in Plastic Surgery	Dr. Dan Saleh Consultant Plastic Surgery Newcastle Royal Infirmary, Newcastle
03:50 to 04:00	Conclusions and Closing Remarks	Prof. Moazzam Tarar, Chief of Broadway Plastic Surgery

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# Breast Surgery

24.04.2024 WEDNESDAY  
(08:00 AM TO 10:30 AM)  
LOCATION: LECTURE HALL II

## Navigating Breast Health: AI-Enhanced Surgical Strategies



**Session Chair: Dr Amina Khan**  
**Co-Chair: Dr AbuBaker Shahid**  
**Moderator: Dr Sadaf Ishaque**

Experience the evolution of breast surgery as AI and robotics revolutionize precision in breast care. From oncological interventions to cosmetic enhancements, explore how technology is reshaping the landscape of breast health with meticulous attention to detail.

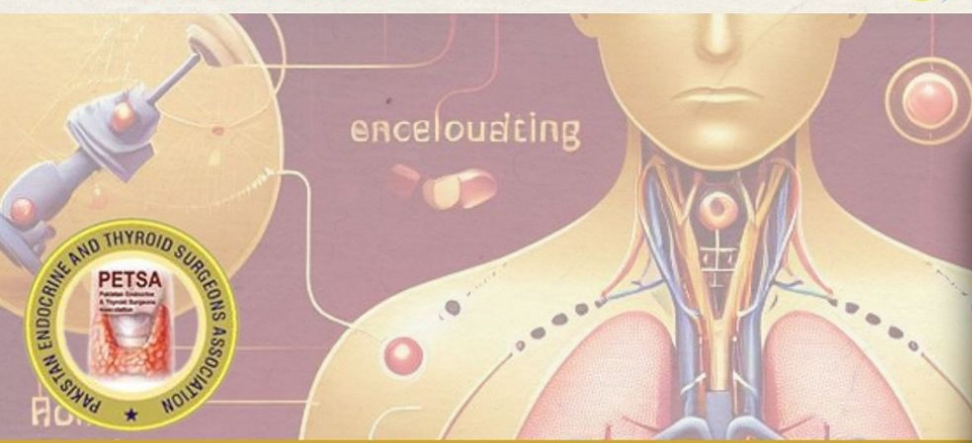
Time	Topic	Presenter
08:00 to 08:20	De-escalation in Management of Axilla: Recent Changes	Dr Amina Iqbal Khan
08:20 to 08:40	Oncoplastic Breast Surgery: A Changing Paradigm in Breast Surgery	Prof Saira Saleem
08:40 to 09:00	Advances in Artificial Intelligence and the Potential Impact on Oncoplastic Breast Surgery	Dr Arifa Manzoor
09:00 to 09:20	Recent advances and trials in breast surgery	Dr Amjad Ali
09:20-09:40	Recent Trends in Breast Surgery in Era of AI and Robotics	Dr Maria Cordosa Imperial College London
09:40-10:00	Breast MDT: Interesting Cases	Dr Huma Majeed Khan
10:00 to 10:30	Panel Discussion	

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# Endocrine Surgery

**24.04.2024 WEDNESDAY**  
**(11:00 AM TO 01:30 PM)**  
**LOCATION: LECTURE HALL II**

## Endocrine Excellence: Precision Pathways with AI and Robotics



**Session Chair : Prof Khawaja M Azim**

**Co-Chair: Prof Dr Talat Waseem**

**Moderator: Dr Ahsan Shafiq / Prof Talat Waseem**

Time	Topic	Presenter
11:00 to 11:20	Thyroid Nodule Assessment: What is new?	Mateen Hotiana, Marshall University WV
11:20 to 11:40	Emerging Role of Molecular Profiling in Thyroid Nodule Assessment	Max Plittz, Johns Hopkins
11:40 to 12:00	TOETVA: How is it transforming Endocrine Surgery	Jonathan Russell, Johns Hopkins
12:00 to 12:20	Innovations in Parathyroid Surgery: Peroperative Localization Techniques	Sherjeel Paul, Endocrine Consultant Cork University Hospital
12:20 to 12:40	Approaches to Pancreatic Neuroendocrine Tumors (PNETs)	Zulqarnain Hyidar
12:40 to 01:00	Extent of Neck Dissection in Thyroid Cancer	M. Faisal, Shaukat Khanum
01:00 to 01:20	AI Endocrine Research at Shalamar: A Brief Overview	Prof Talat Waseem

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# Vascular Surgery

**24.04.2024 WEDNESDAY**  
**(02:00 PM TO 04:00 PM)**  
**LOCATION: LECTURE HALL II**

## Surgical Visions: Navigating Vascular Pathways with AI



**Session Chair: Brig Muhammad Jamil.** (Professor/HOD Vascular Surgery CMH Multan)

**Co-Chair: Col Hafiz Khalid.** HOD Vascular Surgery CMH Lahore,

**Dr Rashid Usman,** CMH Lahore

**Moderator: Dr Sabih Nofal / Dr Usman Jamil**

Embark on a journey through vascular precision as AI and robotics redefine the landscape of vascular and endovascular surgery. Discover innovative interventions that navigate intricate vascular pathways with unparalleled accuracy and efficacy.

Time	Topic	Presenter
02:00 to 02:30	Hybrid Vascular Interventions: Current Trends in Modern Vascular Surgery.	Brig Ahsin Manzoor Bhatti Professor of Vascular Surgery Army Medical College Dean Vascular Surgery CPSP
02:30 to 03:00	Role of Endovascular Therapy in Peripheral Vascular Diseases	Dr Fahad Berlas Director Cath Lab & Endovascular Services Consultant Vascular Surgeon SMBBT Trauma Center Karachi.
03:00 to 03:30	Application of Artificial Intelligence in Vascular Disease management: Vascular Arterial Surgical Planning System (VASP)	Dr Sana Sharafat Consultant Vascular Surgeon KRL Hospital Islamabad.
03:30 to 04:00	Panel Discussion	

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# Surgical Oncology

**25.04.2024 THURSDAY**  
**(08:00 AM TO 10:30 AM)**  
**LOCATION: LECTURE HALL II**

## Navigating Oncological Frontiers: AI-Driven Innovations



**Session Chair :Prof Haroon Javed Majeed**

**Co-Chair: Prof Irfan Ahmad**

**Moderator: Dr Ahsan Shafiq/ Prof Talat Waseem**

Time	Topic	Presenter
08:00 to 08:20	Artificial Intelligence tools in pancreatic cancer - hype or hope for detection & treatment	Dr Irfan Kabir, Shaukat Khanum Peshawar
08:20 to 08:40	Diagnostic Performance of Artificial Intelligence-Based Models for the Detection of Early Esophageal Cancers in Barret's Esophagus	Dr Zubair Khanzada, Shaukat Khanum Peshawar
08:40 to 09:00	Role of MDT in Cancer Care	Prof Irfan Ahmad, PKLI, University of Aberdeen
09:00 to 09:40	Molecular Profiling in HPB Cancer	Prof Flavio Rocha, OSU
09:40 to 10:00	Diagnosing Sarcoma and Surgical Planning: An overview	Dr Raza Sayyed, Patel Hospital, Karachi
10:00 to 10:20	Recent Advances in minimally invasive Upper GI Surgery	Dr Zubair Khanzada, Shaukat Khanum Peshawar
	Panel Discussion	

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# Hepatobiliary Surgery

**25.04.2024 THURSDAY**  
**(11:00 AM TO 01:30 PM)**  
**LOCATION: LECTURE HALL II**

## Navigating the Biliary Maze: AI-Enhanced Strategies



**Session Chair : Prof Irfan Ahmad**

**Co-Chair: Prof Faisal Hanif**

**Moderator: Dr Ahsan Shafiq / Dr Zulqarnain Hyidar**

Navigate the intricacies of hepatobiliary precision with AI and robotics revolutionizing surgical strategies. Explore innovative interventions that optimize outcomes in hepatic and biliary disorders with unmatched accuracy and efficacy.

Time	Topic	Presenter
11:00 to 11:20	ERAS in Hepatobiliary Surgery	Dr Zulqarnain Hyidar
11:20 to 11:40	Robotic Donor Hepatectomy: Tips & tricks	Dr Seung Duke Lee
11:40 to 12:00	Emerging role of artificial intelligence in liver surgery	Dr Irfan Kabir
12 :00 to 12:20	Past, Present and Future of Transplant Surgery	Prof Irfan Ahmad
12:20 to 12:40	Resection vs liver transplant in HCC	Prof Faisal Hanif
12:40 to 01:00	Role of liver transplant in irresectable Hilar Cholangiocarcinoma	Dr AbuBaker Hafeez Bhatti
01:00 to 01:30	Panel Discussion	

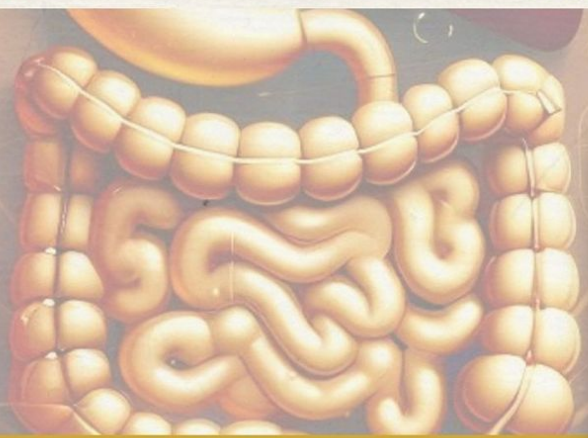
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# Colorectal Surgery

**25.04.2024 THURSDAY**  
**(02:00 PM TO 04:00 PM)**  
**LOCATION: LECTURE HALL II**

## Precision in Motion: AI and Robotics in Colorectal Mastery



**Session Chair : Prof Amir Ali Syed**  
**Co-Chair: Dr Asghar H Asghar**  
**Moderator: Dr Ahsan Shafiq**

Journey into the realm of colorectal precision as AI and robotics redefine surgical paradigms. Explore transformative techniques that navigate complex colorectal disorders with unprecedented accuracy and efficacy.

Time	Topic	Presenter
02:00 to 02:20	ERAS in colorectal Surgery	Mr Stephen Stonelake
02:20 to 02:40	Expanding Role of TAMIS in Colorectal Surgery	Dr Amir Zaheer
02:40 to 03:00	Functional Pelvic Floor Disorders	Dr Umair Rashid
03:00 to 03:20	Robotic Low Anterior Resection: Tips and Tricks	Dr Najaf Siddiqui
03:20 to 03:40	Endosponges: an answer to colorectal Anastomotic leak	Dr Ahsan Shafiq
03:40 to 04:00	Role of TNT in Rectal Cancer: Trials and Experience	Dr Asghar H Asghar KIRAN
04:00 to 04:30	Panel Discussion	Amir Ali Syed

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## Surgical Education

26.04.2024 FRIDAY  
(08:00 AM TO 10:30 AM)  
LOCATION: LECTURE HALL II

## Navigating the Future Surgeon: AI-Enhanced Educational Strategies



**Session Chair : Prof Farooq Afzal**

**Co-Chair: Prof Asghar Naqi, Prof Humad Naeem Rana**

**Moderator: Prof Talat Waseem**

Time	Topic	Presenter
08:00 to 08:20	Sharper Scalpels: Enhancing Surgical Communication with AI-Powered Writing Tools	Prof Abrar Ashraf
08:20 to 08:40	From Classroom to Operating Room: AI and Robotics in Surgical Training	Prof Asghar Naqi
08:40 to 09:00	Role of AI in Surgical Resident Assessment	Dr Khalid Cheema
09:00 to 09:20	Technology Enhanced Surgical Training: Shaping the Future of Surgery	Prof Farooq Afzal
09:20 to 09:40	Artificial Intelligence (AI) enhanced Surgical Oriented Proposal (AESOP)	Prof Amir Nisar
09:40 to 10:00	Prompt Engineering Tools for Large Language Models	Prof Talat Waseem
	Panel Discussion	

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# AI & Robotics: Tools That A Surgeon Needs to Know

26.04.2024 FRIDAY

(11:00 AM TO 01:30 PM)

LOCATION: LECTURE HALL II

## AI & Robotics: Tools That A Surgeon Needs to Know



**Session Chair: Prof Mehmoood Ayyaz / Prof Waris Farooka**

**Co-Chair: Prof Rehan A Khan**

**Moderator: Prof Tauseef Asghar / Prof Talat Waseem**

Experience the future of surgical mastery with AI and robotics leading the way. Explore transformative techniques that redefine precision surgery across specialties, setting new standards for patient care and surgical innovation.

Time	Topic	Presenter
11:00 to 11:20	Surgical Symphony: Harmonizing AI and Robotics in Operating Rooms	Prof Mehmoood Ayyaz / Prof Waris Farooka
11:20 to 11:40	Utilizing Deep Learning in Artificial Intelligence for Surgical Decision-Making: Processes, Trustworthiness, and Ethical Considerations	Prof Rehan Khan
11:40 to 12:00	Pathological Diagnosis in Era of AI	Prof Hammad Naveed
12:00 to 12:20	Robotic Hepatobiliary and Pancreatic Surgery	Prof Jawad Ahmad UK
12:20 to 01:00	Entrepreneurship and Innovations in Healthcare	Dr Usman Lashari
01:00 to 01:30	Panel Discussion	
02:00 to 05:00	Hands on Dry Run of the Versius	Prof Waris Farooka

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## Versius Surgical Robot

**26.04.2024 FRIDAY  
(11:00 AM TO 01:30 PM)  
SHALAMAR INSTITUTE OF  
HEALTH SCIENCES**

### Dry Demo of Versius Surgical Robot

#### Dear Attendees,

We invite you to the Dry Demo of the Versius Surgical Robot, a revolutionary advancement in the field of surgery. Hosted by Shalamar Institute of Health Sciences, this event promises to showcase the cutting-edge technology and precision that Versius brings to the operating room.



#### What is Versius?

Versius is a state-of-the-art surgical robot designed to enhance surgical capabilities while minimizing invasiveness. Its compact design, intuitive controls, and versatility make it a game-changer in various surgical procedures, ranging from general surgery to gynecology and urology.

#### Why Attend?

- Witness live demonstrations of Versius in simulated surgical scenarios.
- Engage with experts and learn about the features and benefits of Versius.
- Explore the potential of robotic-assisted surgery in improving patient outcomes.
- Network with peers and industry professionals in the healthcare field.



Join us as we embark on a journey into the future of surgery with Versius. Secure your spot today and be a part of this transformative experience!

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# Maxillofacial Surgery

26.04.2024 FRIDAY

(11:00 AM TO 01:00 PM)

LOCATION: HOSPITAL AUDITORIUM

## Beyond Aesthetics: Precision in Maxillofacial Surgery through AI and Robotics



**Session Chair : Dr Uzair Bin Akhter**  
**Co-Chair: Dr Muhammad Faisal**  
**Moderator: Dr Ayesha Ahmed**

### Maxillofacial Trauma

Time	Topic	Presenter
11:00 to 11:20	AI driven virtual simulation for patient education – Enhancing informed consent in facial cosmetic surgery	Dr Tauseef Ahmed
11:20 to 11:40	Maxillofacial Trauma : the way forward	Dr Muhammad Umar Qayyum
11:40 to 12:00	Discussion/Question and Answers	

**Session Chair : Dr Raza Hussain**  
**Co-Chair: Dr Ehsan UI Haq**  
**Moderator: Dr Muhammad Umar Qayyum**

### Oral Cancer

Time	Topic	Presenter
12:00 to 12:20	Artificial intelligence for oral cancer diagnosis and management: possibilities and way forward.	Dr Muhammad Faisal
12:20 to 12:40	Advances and innovations in head & neck surgery	Dr Shayan Khalid
12:40 to 01:00	Discussion/Question and Answers	

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PSORL Punjab

# ENT & Head-Neck Surgery

02.05.2024 THURSDAY  
(09:30 AM TO 11:00 AM)  
LOCATION: LECTURE HALL I

## Precision Resonance: Unveiling Dynamic Trends and Innovative Solutions in ENT Surgery



**Session Chair : Prof. Dr. Manzoor Ahmed/Prof Dr M Amjad/ Prof Dr Najm ul Hassan**

**Co-Chair: Prof. Dr. Saeed Gohar**

**Moderator: Dr. Arshadullah Afridi**

Time	Topic	Presenter
09:30 to 09:50	Revolutionizing CSF Rhinorrhea Repair	Prof. Dr. Tahir Rashid
09:50 to 11:10	Coplications of FESS and its Management.	Prof. Dr. Sarfraz Latif
11:10 to 11:30	Management of Advance Oral Cavity Tumors	Prof. Dr. Irshad Malik
11:30 to 11:50	The advent of Endoscopic approaches to Ear Surgery	Dr. Arshad Ullah Afridi
11:50 to 12:00	Panel Discussion	

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# Head & Neck Oncology Course

**04.05.2024 SATURDAY**  
**(08:00 AM TO 04:00 PM)**  
**LOCATION: LECTURE HALL II**

## Post-Conference Course for Maxillofacial Surgery and ENT Residents



### Course Facilitators:

- Dr Raza Tasawer Hussain
- Dr Kashif Iqbal
- Dr Muhammad Faisal
- Dr M. Umar Qayyum
- Dr Shayan Khalid Ghaloo
- Dr Shoaib Zuberi

Time	Topic
8:30 am - 9:00 am	Registration and Welcome
9:00 am - 9:30 am	Introduction to the Study Day- Tips and Tricks of Exam Buisness by Omer Qayyum
9:30 am - 11:45 am	Case-based Discussion
Station 1:	Station 1:
Station 2:	Management of Salivary Gland neoplasms
Station 3:	Current guidelines and management of Thyroid malignancies
Station 4:	Treating early and advanced Laryngeal Cancers
11:45 am - 12:00 pm	Grab a coffee and stretch your muscles
12:00 pm - 1:30 pm	Pearls of Wisdom by the Faculty
01: 30 PM - 2:30 pm	Lunch Break (Networking Opportunity)
2:30 pm - 3:30 pm	Stump the faculty
3:30 pm - 4:00 pm	Wrap-up and Closing Remarks

**Note: Each case-based discussion session involves interactive one-on-one discussions between participants and experts, focusing on real-life scenarios and treatment strategies for head and neck oncology cases.**

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## RESEARCH ABSTRACTS

# Shalamar Surgical Symposium



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# Research Abstract

Urooj Sajjad,  
et al

## Unveiling Ectopic Parathyroid Adenoma- A Literature Review

**Background:** Primary hyperparathyroidism (PHPT) manifests as elevated calcium levels due to excessive secretion of parathyroid hormone (PTH). It's a prevalent endocrine disorder, affecting 1 to 7 cases per 1000 adults, commonly emerging in the fifth or sixth decade, particularly among females. The majority of PHPT cases (85% to 90%) result from solitary hyperfunctioning parathyroid adenomas, while the remainder include multiglandular diseases (multiple adenomas or hyperplasia) and rarely, parathyroid carcinoma (1%). Ectopic parathyroid adenomas may develop due to aberrant embryological migration, posing challenges in preoperative localization and surgical treatment. When initial attempts fail, consideration should be given to the potential of multifocal disease, especially in patients with risk factors such as genetic syndromes (e.g., MEN1/2A), lithium use, or prior radiotherapy. Furthermore, in cases necessitating repeat surgery, the presence of an ectopic parathyroid gland should be contemplated. In this discussion, we utilize clinical cases to elucidate the management approach for patients with PHPT and suspected ectopic parathyroid adenomas. The main goal of parathyroid imaging is to locate the abnormal parathyroid gland, thus enabling a less invasive surgical procedure. Ultrasound and (99m)Tc sestamibi scintigraphy are the primary techniques used to identify problematic areas before surgery. The emerging method of SPECT-CT shows potential in improving the accuracy of (99m)Tc sestamibi scintigraphy, and its use is recommended when possible. Additionally, CT and MR imaging are valuable supplementary tools, especially for matching the anatomy with suspected ectopic glands identified through (99m)Tc sestamibi scintigraphy, which may not be visible via ultrasound. In cases where parathyroid carcinoma is suspected, preoperative CT or MR imaging is advised to assist in surgical planning.

**Methodology:** Two search engines including PubMed and Medline were searched using keywords "ectopic parathyroid adenoma". Inclusion and exclusion criteria were applied. Only articles in the past five years were included. A total of 50 articles were reviewed, different case reports were analysed for various locations of thyroid adenomas and diagnostic modalities used for identifying these. Results were analysed using SPSS version 26 and recorded in tabulated form.

**Results:** Various Locations identified for ectopic parathyroid adenomas included mediastinal, intrathyroidal, thymic, retropharyngeal, submandibular, piriform sinus, intravagal, carotid sheath, pectoralis major. Diagnostic modalities included Ultrasound, Dual-phase 99mTc-sestamibi parathyroid scintigraphy, Contrast-enhanced computed tomography of the neck and thorax, direct laryngoscopy, 4-dimensional CT

**Conclusion:** The scarcity of regional data on the subject underscores the need for comprehensive research into cases of persistent hypercalcemia and keep a high clinical suspicion of the potential presence of ectopic thyroid glands. It is imperative to initiate further investigations and actively document such occurrences through the generation of additional case reports in Pakistan.

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# Research Abstract

Talha Malik, et al

## Giant Parathyroid Adenoma: A Case Report

**Abstract:** Introduction: Primary hyperparathyroidism (PHPT) is commonly due to parathyroid adenomas. Giant parathyroid adenomas (GPTAs) are exceedingly rare. This case report details the successful multidisciplinary management of a 57-year-old male with a GPTA causing refractory hypercalcemia and parathyroid crisis.

**Case-Report:** The patient presented with a complex medical history, including pancreatitis, renal disease, and myocardial infarction, attributed to the GPTA. Laboratory findings revealed severe hypercalcemia and elevated parathyroid hormone levels. Scans and labs indicated a parathyroid mass. Despite medical treatment, surgical excision was necessary, leading to symptom resolution. The resected mass was 2.2 x 1.6 x 1 cm and weighed 3.85g, and histopathology showed giant parathyroid adenoma.

**Discussion:** GPTAs are rare but can result in life-threatening hypercalcemia. Early surgical intervention is crucial in cases of refractory hypercalcemia and parathyroid crisis, as demonstrated in this case.

**Conclusion:** GPTAs require prompt recognition and surgical management when associated with refractory hypercalcemia and severe clinical manifestations. This case emphasizes the critical role of surgery in achieving successful outcomes for patients with GPTAs.



# Research Abstract

Ehtisham Sohail Khan,  
et al

## A Systematic Review On The Comparative Efficacy Of Computer-Aided Diagnosis Systems In Ultrasound-Based Thyroid Nodule Diagnosis To That Of A Radiologist

**Background:** Thyroid nodules are common findings in adults, with the potential for a small percentage to be malignant. The use of ultrasound (US) as the primary imaging modality for thyroid assessment is marred by operator-dependent variability. Recent advances in artificial intelligence (AI) have led to the development of Computer-Aided Diagnosis (CAD) systems, which aim to enhance the accuracy and efficiency of thyroid nodule diagnosis. This systematic review evaluates the efficacy of CAD systems in comparison to experienced radiologists in detecting and diagnosing thyroid nodules.

**Methods:** Following Preferred Reporting Items for Systematic Reviews and Meta-Analysis (PRISMA) guidelines, a comprehensive literature search was conducted in PubMed and the Cochrane Library, including articles published up to July 1, 2023. Search terms related to thyroid, ultrasound, artificial intelligence, and diagnostic accuracy were used. After rigorous screening and quality assessment, 13 diagnostic accuracy studies were included in the review.

**Results:** The analysis of these studies revealed that CAD systems exhibit substantial potential as diagnostic tools for thyroid nodules. CAD consistently demonstrated higher sensitivity and Negative Predictive Value (NPV) compared to radiologists, with an average sensitivity of over 85% and an NPV approaching 91%. Radiologists retained an advantage in terms of specificity, Positive Predictive Value (PPV), and accuracy, albeit with relatively narrow margins. Notably, one statistical outlier study suggested significantly lower sensitivity for radiologists. The inclusion of Area Under Receiver Operating Characteristic Curve (AUROCC) data indicated that CAD can offer enhanced diagnostic accuracy, especially in specific scenarios.

**Conclusion:** CAD systems demonstrate significant potential in thyroid nodule diagnosis, particularly in sensitivity and NPV. While radiologists continue to excel in specificity, CAD's consistent and objective analysis can complement radiological expertise. Further research and collaborative efforts are essential to harness the full capabilities of CAD systems, ultimately benefiting patient outcomes in thyroid nodule diagnosis.



# Research Abstract

Manal Mubarak,  
et al

## Comparative Analysis of Modalities in Preoperative Assessment and Localization of Parathyroid Hyperplasia

**Background:** Parathyroid hyperplasia is a common cause of primary hyperparathyroidism, necessitating precise preoperative localization for surgical intervention. Various imaging modalities are employed, including ultrasound, Technetium-99m sestamibi scintigraphy, computed tomography (CT), magnetic resonance imaging (MRI), and selective venous sampling (SVS). Their relative diagnostic accuracies remain uncertain.

**Objectives:** To evaluate and compare the diagnostic accuracies of ultrasound, Technetium-99m sestamibi scintigraphy, CT, MRI, and SVS in assessing and localizing parathyroid hyperplasia before surgery.

**Methods:** Systematic searches of electronic databases (PubMed, Google Scholar, Cochrane Library) up to [2021-2023] yielded potentially eligible studies. Included studies reported data on sensitivity, specificity, positive predictive value, negative predictive value, and overall accuracy of the imaging modalities. Only studies concentrating on detecting parathyroid hyperplasia in patients diagnosed with primary hyperparathyroidism were considered. Data extraction focused on sensitivity, specificity, and overall accuracy.

**Results:** Data synthesis and meta-analyses calculated pooled diagnostic accuracies of ultrasound, Technetium-99m sestamibi scintigraphy, CT, MRI, and SVS. Sensitivity and subgroup analyses were performed to examine sources of heterogeneity and ensure result robustness.

**Conclusion:** This systematic review offers a comprehensive evaluation of the diagnostic accuracy of various imaging modalities in preoperative assessment and localization of parathyroid hyperplasia. Physicians can utilize this information to choose the most suitable imaging strategy for individuals with primary hyperparathyroidism, thus improving surgical planning and patient outcomes.



# Research Abstract

Sana Mehmood, et al

## Genetic Insights into Colorectal Carcinoma: A Detailed Overview

**Background:** Colorectal carcinoma ranks as the second most common cancer in females, third in males, and the fourth leading cause of cancer-related deaths globally, contributing to approximately 9% of all cancer fatalities. This malignancy continues to pose a substantial burden on global morbidity and mortality. Genetic mutations are pivotal in the development, pathogenesis, and progression of colorectal carcinoma.

**Objective:** This review offers a comprehensive insight into the genes responsible for genetic mutations and the signalling pathways implicated in colorectal cancer development.

Research Methodology:

Conducting a systematic literature review on genetic mutations in colorectal carcinoma, this study meticulously selected relevant studies from reputable databases like PubMed and Google Scholar. The search strategy encompassed keywords such as 'colorectal carcinoma,' 'genetic mutations,' 'genetic alterations in colorectal carcinoma, and molecular biology of colorectal cancer.

**Result:** Colorectal carcinoma can be broadly categorized based on the origin of mutation into sporadic (70%), familial (25%), and inherited (5%) forms. Hereditary colorectal carcinoma manifests in two well-defined forms: the Polyposis group (e.g., familial adenomatous polyposis - FAP, attenuated familial adenomatous polyposis - AFAP) caused by APC gene mutations and MUTYH-associated polyposis due to MUTYH variants. The Hereditary Non-Polyposis group includes Lynch syndrome caused by DNA MMR gene mutations. Other types of colorectal carcinomas comprise juvenile polyposis syndrome and Peutz-Jeghers syndrome. Molecularly, pathogenic mechanisms in colorectal carcinoma are classified into three major groups: chromosomally unstable group, microsatellite unstable group, and CPG gene methylation phenotype. Additionally, alterations in non-coding RNAs like lncRNA or miRNA can influence carcinogenesis. Genetic mutations and chromosomal translocations involve pathways such as WNT, MAPK/PI3K, TGF- $\beta$ , and TP53, with key genes including c-MYC, KRAS, BRAF, PIK3CA, PTEN, SMAD2, and SMAD4.

**Conclusion:** Genetic mutations significantly contribute to the pathogenesis of colorectal carcinomas. A comprehensive understanding of the genetic landscape of colorectal cancer is crucial for advancing diagnostic approaches, prognostic evaluations, and targeted therapeutic interventions.

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# Research Abstract

Muhammad Sohaib Nafees,  
et al

## Revolutionizing Perioperative Care: The Transformative Impact of Artificial Intelligence

**Background:** Artificial intelligence (AI) has revolutionized perioperative monitoring, offering advanced tools to enhance patient care and clinical outcomes. This abstract delves into the significant impact of AI technologies in optimizing perioperative medicine, focusing on improving efficiency, reducing costs, and personalizing treatment strategies.

**Objective:** The objective of this abstract is to elucidate the diverse applications of AI in perioperative monitoring, highlighting its role in risk prediction, real-time monitoring, and clinical decision support. By exploring the various AI techniques utilized in perioperative settings, this abstract aims to showcase the transformative potential of AI in enhancing patient safety and overall care quality.

**Methodology:** This abstract synthesizes information from research on AI technologies in perioperative monitoring, drawing insights from machine learning algorithms, computer vision, natural language processing, and deep learning techniques. By analyzing the utilization of AI-driven closed-loop anesthesia delivery systems and decision support tools, this abstract provides a comprehensive overview of how AI is reshaping perioperative care.

**Findings:** The findings reveal that AI technologies play a crucial role in improving efficiency, enabling real-time monitoring, predicting complications, and supporting clinical decision-making in perioperative settings. Through the integration of AI-driven solutions, healthcare providers can optimize anesthesia delivery, reduce costs, and enhance patient outcomes during surgical procedures.

**Conclusions:** In conclusion, the integration of AI in perioperative monitoring offers a promising avenue for advancing patient care and safety. By harnessing the power of AI for risk prediction, personalized treatment strategies, and real-time decision support, healthcare facilities can elevate the quality of care provided to patients undergoing surgical interventions. The adoption of AI technologies in perioperative settings holds immense potential for transforming healthcare delivery and improving clinical outcomes.

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# Research Abstract

Amna Fakhar, et al

## Comparative Analysis of Different Dyes Used in Sentinel Lymph Node Biopsy

Sentinel lymph node biopsy (SLNB) plays a crucial role in the management of various cancers, particularly breast, endometrial, prostate, and vulvar cancers. This study explores comparative analysis of different agents utilized for SLNB, focusing on the efficacy and feasibility of various approaches.

Seven relevant studies were reviewed, encompassing randomized controlled trials and prospective trials conducted between 2020 and 2023. These studies investigated the use of different tracers, including carbon nanoparticles, indocyanine green (ICG), methylene blue (MB), and hybrid tracers combining radioactive and fluorescent agents.

Findings indicate that dual dye techniques, combining MB with ICG, or using ICG alone, showed non-inferiority compared to standard approaches using radioisotopes and blue dye in breast cancer and endometrial cancer. Moreover, hybrid tracers, such as ICG-Technetium-99m-nanocolloid, demonstrated improved diagnostic accuracy in prostate cancer, enhancing the positive predictive value for tumor-bearing lymph nodes while minimizing the number of fluorescent nodes.

Ultrasound-assisted carbon nanoparticle mapping proved non-inferior to dual tracer-guided SLNB in early breast cancer, providing comparable identification rates.

Combined application of ICG and MB in SLNB for breast cancer showed higher detection rates compared to MB alone, without a significant difference in the false-negative rate. Furthermore, intraoperative visual detection using ICG-99mTc-nanocolloid proved superior to standard detection with 99mTc-nanocolloid and blue dye in vulvar cancer.

In conclusion, these studies underscore the evolving landscape of SLNB techniques, highlighting the potential of novel tracers and hybrid approaches to improve diagnostic accuracy and minimize procedural complexities in various cancers. Further research and clinical validation are warranted to optimize SLNB strategies and enhance patient .

Keywords: Dyes, SLNB



# Research Abstract

Muhammad Shaban. et al

## Systematic Literature Review: Role of Molecular Profiling in Thyroid Cancer Surgery

**Background:** The integration of molecular profiling into thyroid cancer surgery has revolutionized patient management, offering personalized treatment strategies and improved diagnostic accuracy. This systematic literature review aims to explore the role of molecular profiling in thyroid cancer surgery, focusing on its impact on surgical decision-making, patient outcomes, and healthcare resource utilization. The review addresses the implications of molecular testing in preoperative assessment, surgical planning, and postoperative management of thyroid nodules.

**Study Design:** A comprehensive search was conducted across PubMed, Google Scholar, and relevant databases to identify studies investigating the use of molecular profiling in thyroid cancer surgery. Key search terms included "molecular profiling," "thyroid cancer," "surgery," and "ThyroSeq." Studies were selected based on their relevance to molecular testing in thyroid nodules, surgical implications, and outcomes related to personalized management strategies.

**Results:** The review highlights the significant impact of molecular profiling on surgical decision-making in thyroid cancer. Molecular testing aids in preoperative risk stratification, guiding the extent of surgery and reducing unnecessary procedures. Studies demonstrate that molecular markers can predict malignancy type, inform treatment decisions for radioactive iodine-resistant cancers, and optimize surgical outcomes by tailoring interventions based on genetic alterations. Furthermore, the review emphasizes the cost-effectiveness and quality-of-life benefits associated with avoiding unnecessary surgeries through negative predictive value of molecular tests.

**Conclusions:** Molecular profiling plays a pivotal role in enhancing the safety, efficacy, and personalized management of thyroid cancer surgery. By integrating molecular testing into preoperative assessment protocols, surgeons can optimize treatment strategies, minimize healthcare costs, and improve patient outcomes. The findings underscore the importance of incorporating molecular profiling into standard practice to facilitate precision medicine approaches in thyroid cancer surgery.

This systematic literature review provides valuable insights into the transformative impact of molecular profiling on surgical decision-making and patient care in thyroid cancer management

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# Research Abstract

Ali Waqar, et al

## Systematic Literature Review: Current Practices in Axillary Management for Breast Cancer

**Background:** The management of the axilla in breast cancer patients is a critical aspect of treatment, impacting surgical decisions, adjuvant therapies, and patient outcomes. This systematic literature review aims to analyze current practices in axillary management for breast cancer, focusing on the evolving strategies and advancements in this field.

**Methods:** A comprehensive search of relevant literature was conducted, including guidelines from authoritative bodies and expert consensus statements. Key databases such as PubMed, The Lancet, and NCBI were utilized to identify studies discussing axillary management techniques such as sentinel lymph node biopsy (SLNB), axillary lymph node dissection (ALND), and radiotherapy. The review assessed the efficacy, safety, and impact of these approaches on treatment outcomes.

**Results:** The review encompassed various studies and guidelines highlighting the shift from radical procedures like ALND to less invasive techniques such as SLNB. Recent advancements have emphasized personalized approaches based on tumor characteristics and patient factors. Studies have shown comparable efficacy between ALND and radiotherapy in certain cases, indicating a paradigm shift in axillary management strategies. Additionally, the role of adjuvant therapies in influencing axillary treatment decisions has been underscored.

**Conclusion:** Current evidence suggests a trend towards less invasive axillary management strategies in breast cancer treatment. The integration of SLNB as a standard procedure and the consideration of adjuvant therapies have reshaped clinical practices. Surgeons are increasingly adopting tailored approaches based on individual patient profiles to optimize outcomes while minimizing morbidity. This review underscores the importance of staying abreast of evolving practices in axillary management to enhance the quality of care for breast cancer patients.



# Research Abstract

Haseeb Arif, et al

## Artificial Intelligence In Breast Screening: A Systematic Literature Review

**IMPORTANCE:** Breast cancer is the most prevalent cancer in women worldwide. Early presentation, detection and prompt treatment limit morbidity and mortality due to breast cancer. Conventionally, breast cancer screening techniques and diagnosis have relied upon interpretation of radiologists and pathologists. However, advancement in artificial intelligence can lead to further enhancement in accuracy and efficiency of these diagnostic techniques, thereby, reducing incidence of morbidity and mortality.

**AIM** This systemic literature review is conducted to ascertain whether artificial intelligence (AI) can be used to complement existing breast cancer screening techniques. Objective of this review is to determine whether AI can enhance sensitivity of screening techniques, enable more accurate classification of benign and malignant tumors and improve assessment of response to neoadjuvant therapy

**METHODS** This systemic review is conducted in accordance with Preferred Reporting Items for Systematic Reviews and Meta-analysis (PRISMA) guidelines. A comprehensive computer literature search in database of PubMed was performed using a combination of search terms: 'Artificial intelligence' OR 'AI' OR 'Machine learning' AND 'Screening' AND 'Breast cancer'. 843 articles were identified through search in PubMed database. Following removal of 4 duplicate papers, titles and abstracts of 839 articles were reviewed. 115 articles with relevant titles and abstracts were analyzed. Following thorough analysis, 15 papers were included in this literature review.

**RESULTS** AI algorithms exhibited capability in classifying breast lesions and identification of malignancy in otherwise suspicious lesions across different imaging techniques. The integration and assistance of AI algorithms in interpretation of MRI, mammography and thermography has led to significant improvement in diagnostic accuracy and classification of breast lesions. AI complements radiologists and aids in improving performance, thereby, generating better results. AI has the capability to predict response to neoadjuvant chemotherapy in breast cancer patients, leading to safer, more effective and more cost-effective treatment for breast cancer patients.

**CONCLUSIONS** Artificial intelligence has the potential to revolutionize medicine in 21st century. Artificial intelligence has widespread potential in breast cancer screening. It can aid in improving radiologists' ability to detect cancer on radiograms, classifying breast lesions, and predicting response to neoadjuvant therapy.

**KEYWORDS** Artificial Intelligence, Machine Learning, Neural Networks, Breast Cancer, Neoadjuvant Therapy, Screening.

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# Research Abstract

Maha Khalil, et al

## Carcinoma of appendix: A Case-Report

**Background:** The case involves a sixty-three-year-old female with a complex medical history, including diabetes mellitus, hypertension, and ischemic heart disease. She presented with intermittent, localized pain in the right lower abdomen over three months, along with sporadic constipation. Clinical examination revealed tenderness in the right iliac fossa, prompting further investigation.

**Study Design:** Imaging via CT abdomen uncovered a mass in the right iliac fossa, likely of bowel origin, with features suggestive of mucinous adenocarcinoma. Subsequently, a limited right hemicolectomy was performed. The surgery revealed a mucinous adenocarcinoma, grade 2, with infiltration of the visceral peritoneum. Postoperatively, the patient's recovery was uneventful.

**Result:** Cytopathological analysis confirmed the diagnosis of mucinous adenocarcinoma with moderate differentiation. Notably, there was no evidence of lympho-vascular or perineural invasion. Discussion ensued regarding the characteristics and diagnosis of mucinous appendiceal adenocarcinoma, highlighting its rarity and varied clinical presentations.

**Conclusion:** The case underscores the importance of considering primary appendicular cancer in patients presenting with abdominal masses or symptoms mimicking acute appendicitis. Despite the diagnostic challenges posed by the rarity of such neoplasms, appropriate surgical intervention can yield favorable outcomes. Further research into the effective management of mucinous appendiceal cancer is warranted to improve patient care and prognosis.



# Research Abstract

Maha Khalil, et al

## Eagle's Syndrome: An Unusual cause of throat pain – A Case Report

**Background:** Eagle's syndrome, characterized by elongated styloid processes, presents with cervicofacial pain. Despite its rarity, it affects around 4% of the general population, predominantly women. Diagnosis can be challenging due to nonspecific symptoms, leading to delays ranging from 10 to 27 years. A multidisciplinary approach is crucial, with CT imaging being the gold standard for assessment. Treatment options range from non-invasive to surgical interventions, tailored to symptomatology.

**Study Design:** A 51-year-old female with hypertension and recently diagnosed diabetes presented with one-year throat pain and swallowing difficulty. Despite multiple consultations and treatments, including antibiotics, pain persisted. CT scan revealed elongated styloid processes, prompting left tonsillectomy and styloidectomy. Follow-up showed smooth recovery.

**Result:** Tonsillectomy and styloidectomy led to the patient's symptom resolution, affirming the diagnosis of Eagle's syndrome. The multidisciplinary approach and proper diagnostic tools facilitated successful management.

**Conclusion:** Eagle's syndrome remains underexplored, particularly in Asian countries like Pakistan. Heightened awareness among healthcare specialists, emphasizing diagnostic techniques and treatment modalities, is crucial for timely recognition and effective management of this condition.



# Research Abstract

Maha Khalil, et al

## “An unusual case of Nodular Lymphocyte Predominant Hodgkin’s Lymphoma of the parotid – A Case Report

**Background:** Non-Hodgkin lymphoma (NHL) and Hodgkin's lymphoma (HL), particularly Nodular Lymphocyte Predominant Hodgkin’s Lymphoma (NLPHL), present distinct challenges in diagnosis and management due to their varying prevalence, clinical characteristics, and diagnostic methods.

**Study Design** A case study of a 44-year-old female presenting with swelling in the right parotid region, alongside a review of relevant literature, is utilized to illustrate the diagnostic complexities and management strategies for parotid lymphomas.

**Result** Clinical examination, imaging, and cytological findings initially suggested chronic granulomatous lymphadenitis, necessitating excisional biopsy. Histopathological examination revealed nodular lymphocyte predominant Hodgkin lymphoma (NLPHL), indicating a need for further evaluation and treatment.

**Conclusion** Parotid lymphomas, particularly NLPHL, pose diagnostic challenges due to their rarity and varied presentation. Prompt and accurate diagnosis is crucial for effective management and improved prognosis. Early detection and appropriate treatment strategies can significantly impact patient outcomes, highlighting the importance of heightened clinical suspicion and comprehensive management approaches in such cases.



## Research Abstract

Haseeb Arif, et al

### “An unusual case of Nodular Lymphocyte Predominant Hodgkin’s Lymphoma of the parotid – A Case Report

**IMPORTANCE:** Breast cancer is the most prevalent cancer in women worldwide. Early presentation, detection and prompt treatment limit morbidity and mortality due to breast cancer. Conventionally, breast cancer screening techniques and diagnosis have relied upon interpretation of radiologists and pathologists. However, advancement in artificial intelligence can lead to further enhancement in accuracy and efficiency of these diagnostic techniques, thereby, reducing incidence of morbidity and mortality.

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**CONCLUSIONS:** Artificial intelligence has the potential to revolutionize medicine in 21st century. Artificial intelligence has widespread potential in breast cancer screening. It can aid in improving radiologists’ ability to detect cancer on radiograms, classifying breast lesions, and predicting response to neoadjuvant therapy.



# Research Abstract

Haseeb Arif et al

## Nonfunctioning Pancreatic Neuroendocrine Tumour (NF-PNET) Presenting as Pancreatitis: A Rare Clinical Association

**IMPORTANCE:** Pancreatic neuroendocrine tumors are relatively rare tumors. They make up to 2-5% of all the pancreatic tumors. It is important to diagnose them in early stage. They are found incidentally or if malignant with either epigastric pain or distant metastasis. Very rarely PNETs may present with pancreatitis. Only 30 such cases have been reported previously which did present with focal pancreatitis. Here we present such a rare case.

**CASE PRESENTATION:** A 51-year old female presented with history of recurrent epigastric pain for past 4 years. On Ultrasound and CT scan, a 2x2cm well defined mass in the head of pancreas was observed. The findings were confirmed with CT scan. Modified Whipple procedure was done and histopathological report showed WHO grade - I neuroendocrine tumor with chromogranin positive tumor cells.

**DISCUSSION & CONCLUSION:** The association between neuroendocrine tumor and pancreatitis is very rare hence neuroendocrine tumors should be considered as a differential diagnosis while dealing with such cases.

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# Research Abstract

Dr. Ahsan Arif et al

## The potential applications of artificial intelligence in cardiac surgery

### Introduction:

The field of cardiac surgery is experiencing a shift towards three important ventures: Surgical decision systems, precision surgery and data sciences. This shift is supported by two quantitative science approaches: computational modeling and artificial intelligence (AI).

We strive in this essay to elucidate the role of artificial intelligence in cardiac surgery and its impact on surgeons and patients alike.

### Sections:

- History and development of artificial intelligence and Big Data
- The application of artificial intelligence in cardiac surgery education
- The employment of artificial intelligence in surgical decision: preoperatively, perioperatively, and postoperatively.
- Analyzing cardiac imaging modalities and interpreting them with deep learning.
- Operative data collection with the aid of AI in cardiac surgery
- Artificial intelligence as a prognostic tool in cardiac surgery
- The evolution of robotic cardiac surgery with machine learning
- A promising future
- Conclusions

### Keywords:

Artificial intelligence, Machine learning, Big Data, Computational modeling, Surgical decision, Surgical precision, Neural networks, Cardiovascular surgery



# Research Abstract

Dr Haseeb Arif et al

## Enhancing Surgical Planning in Invasive Lobular Breast Cancer: The Role of Advanced Imaging Modalities

### Background:

Invasive lobular breast cancer (ILBC) presents challenges in identification and localization due to its subtle presentation and limited response to traditional imaging modalities. To address these issues, we evaluated the efficacy of various imaging techniques, including ultrasound (US), mammography (MG), digital breast tomosynthesis (DBT), magnetic resonance imaging (MRI), positron emission mammography (PEM), computed tomography (CT), and positron emission tomography (PET) scans, along with molecular breast imaging (MBI)/breast specific gamma imaging (BSGI)(technetium-99m-sestamibi).

### Methods:

We performed a systematic literature review using PubMed, Google Scholar, and ScienceDirect databases, searching for articles containing the terms "invasive lobular carcinoma," "pathology," "imaging," "concordance," and combinations of the other mentioned imaging modalities. We excluded case reports while considering clinical trials, reviews, randomized control trials, and meta-analyses. Relevant English-language articles published within our chosen database searches were then reviewed.

### Results:

Our review revealed that MRI and contrast-enhanced mammography (CEM) offer better estimations of tumor size and breast disease extent for ILBC than US, DBT, and MBI/BSGI. They also demonstrate superior ipsilateral and contralateral detection, concordance, and accuracy. Furthermore, recent evidence indicates that including MRI or CEM in the preoperative workup leads to enhanced surgical outcomes for newly diagnosed ILBC cases.

### Conclusion:

While conventional imaging methods may suffice for initial breast concern examinations, they exhibit limitations regarding sensitivity. Therefore, for preoperative evaluation, additional imaging – particularly MRI or CEM – is recommended to improve surgical planning and decrease the need for reoperations.

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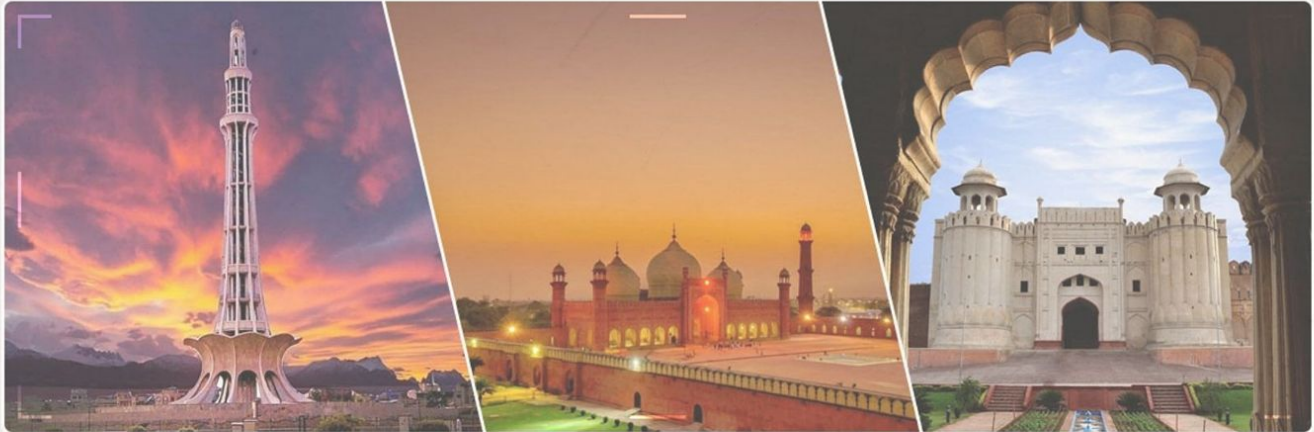


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## About Lahore

Nestled along the banks of the timeless Ravi River, Lahore stands as a testament to the rich tapestry of history, culture, and culinary delights that define Pakistan's vibrant landscape. As the cultural capital of the country, Lahore exudes an unparalleled charm, blending ancient traditions with modern aspirations in a seamless fusion.

Wander through the winding streets of the Old City, where every alleyway whispers tales of Mughal grandeur and Sikh magnificence. Marvel at the majestic Lahore Fort, a UNESCO World Heritage Site, whose towering ramparts bear witness to centuries of imperial splendor and architectural prowess.

Immerse yourself in the vibrant hues of Lahore's bustling bazaars, where the air is thick with the aroma of exotic spices and the melodies of enthusiastic vendors haggling over treasures both old and new. From the labyrinthine lanes of Anarkali to the bustling markets of Liberty and Fortress, Lahore offers a sensory feast for the intrepid explorer.

Indulge your taste buds in the culinary delights that have earned Lahore its reputation as a gastronomic paradise. From sizzling kebabs and aromatic biryanis to delectable sweets and refreshing lassis, the city's diverse culinary landscape is sure to tantalize even the most discerning palate.

But Lahore is more than just a city of historical wonders and culinary delights—it is a city of warmth and hospitality, where strangers are welcomed with open arms and friendships are forged over steaming cups of chai. It is a city where the past and present converge in a kaleidoscope of colors and cultures, inviting you to embark on a journey of discovery and enlightenment.

So, dear delegates, as you gather in Lahore for the Shalamar Surgical Symposium 2024, take a moment to immerse yourself in the timeless allure of this city—a city where every corner is infused with the spirit of hospitality, and every moment is an opportunity to create lasting memories.

Welcome to Lahore—the heart and soul of Pakistan

Here's a glimpse into some of the must-visit places when exploring Lahore:



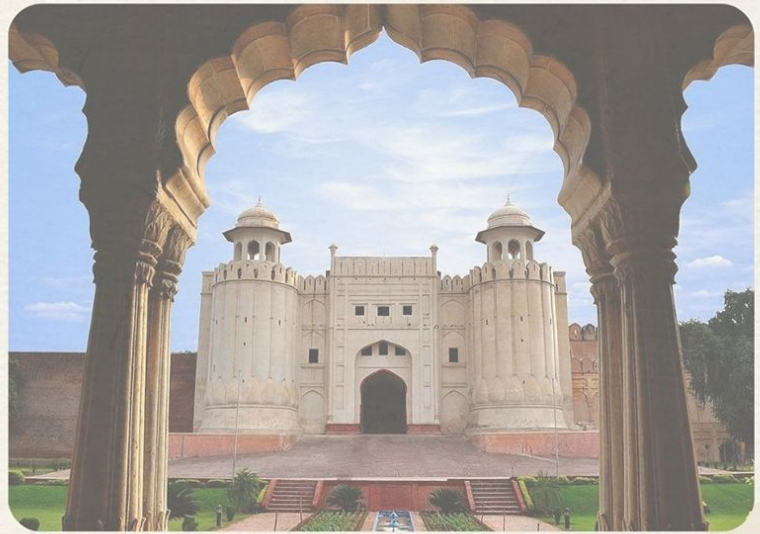
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### 1. Lahore Fort and Shahi Qila:

A UNESCO World Heritage Site, Lahore Fort is a majestic symbol of the city's rich history and architectural brilliance. Explore its intricate marble pavilions, royal chambers, and stunning gardens, while soaking in the grandeur of Mughal architecture. Adjacent to the fort lies Shahi Qila, a magnificent citadel that offers panoramic views of the city.



### 2 Badshahi Mosque:

Adjacent to Lahore Fort, the Badshahi Mosque stands as one of the world's largest and most beautiful mosques. Admire its stunning domes, intricate frescoes, and towering minarets, all of which reflect the grandeur and splendor of Mughal-era craftsmanship.

### 3. Shalimar Gardens:

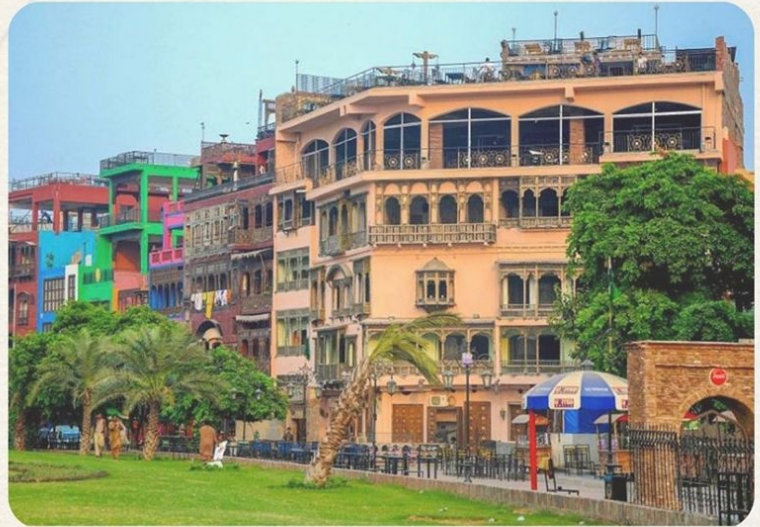
Built by Emperor Shah Jahan in the 17th century, the Shalimar Gardens are a testament to the Mughal love for symmetry and aesthetics. Stroll through its lush green lawns, cascading fountains, and intricately landscaped terraces, and immerse yourself in the tranquility of this UNESCO World Heritage Site..





#### 4. Walled City of Lahore (Old Lahore):

Step back in time as you wander through the narrow streets and bustling bazaars of Old Lahore. Explore historical landmarks such as Wazir Khan Mosque, Lahore Museum, and Lahore's iconic food street, where you can savor traditional delicacies amidst the vibrant ambiance of the city.



#### 5. Lahore Museum:

Delve into the rich tapestry of Pakistan's cultural heritage at the Lahore Museum, home to an extensive collection of artifacts, paintings, and sculptures dating back to ancient civilizations. Marvel at treasures such as the Fasting Buddha and the Gandhara art collection, which offer insights into the region's illustrious past.

#### 6. Lahore Food Street (Fort Road):

Indulge your taste buds in the culinary delights of Lahore at the vibrant Food Street, nestled within the historic walls of the city. From sizzling kebabs and aromatic biryanis to mouthwatering desserts and refreshing drinks, savor the diverse flavors of Pakistani cuisine amidst the lively ambiance of the street.

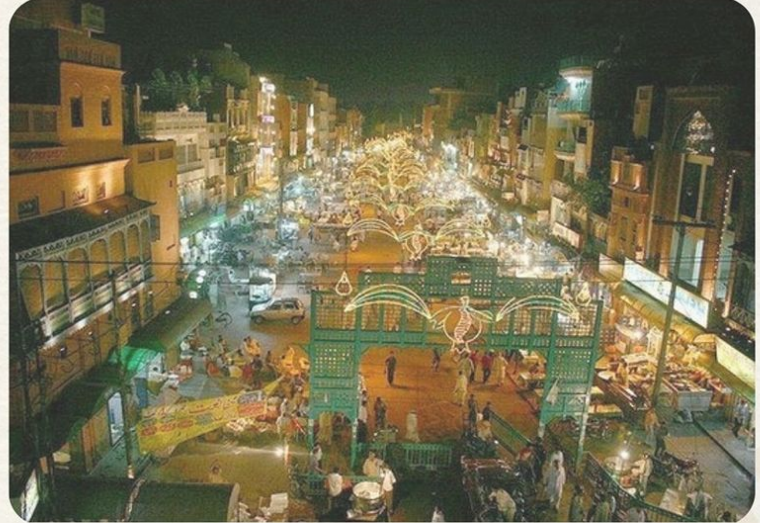




Lahore, often hailed as the culinary capital of Pakistan, boasts a vibrant food scene that tantalizes the taste buds and leaves a lasting impression on visitors from around the globe. Here are some popular food places in Lahore that foreign travelers may find interesting to visit:

### 1. Food Street, Gawalmandi:

Located in the heart of Lahore's Old City, Gawalmandi Food Street is a culinary haven where travelers can immerse themselves in the flavors and aromas of traditional Pakistani cuisine. From sizzling kebabs and succulent tikkas to savory nihari and aromatic biryanis, the street offers a diverse array of culinary delights amidst a lively and bustling atmosphere.



### 2. Butt Karahi, Food Street, Fort Road:

Renowned for its flavorful karahi dishes, Butt Karahi is a must-visit for food enthusiasts seeking an authentic taste of Lahori cuisine. Prepared with fresh spices and tender meat, the karahi at Butt Karahi promises a mouthwatering culinary experience that captures the essence of Pakistani flavors.



### 3. Cuckoo's Den:

Tucked away in the historic streets of Old Lahore, Cuckoo's Den offers a unique dining experience amidst centuries-old architecture and panoramic views of the city. Known for its eclectic menu and vibrant ambiance, the restaurant serves up a fusion of Pakistani and continental dishes, making it a favorite among locals and tourists alike.





#### 4. Waris Nihari, Food Street, Fort Road:

For a taste of Lahore's iconic nihari—a slow-cooked stew made with tender meat and aromatic spices—head to Waris Nihari on Fort Road. Served piping hot with naan bread and garnished with fresh ginger and green chilies, Waris Nihari's delectable offerings are a testament to the city's rich culinary heritage.



#### 5. Haveli Restaurant:

Situated on the outskirts of Lahore, Haveli Restaurant offers a blend of traditional cuisine and cultural entertainment in a grand and opulent setting reminiscent of a bygone era. Guests can savor a wide range of Pakistani delicacies while enjoying live music, dance performances, and other cultural festivities.

#### 6. Andaz Restaurant, Mall Road:

Located in the heart of Lahore, Andaz Restaurant offers a fine dining experience with panoramic views of the city's skyline. Known for its elegant ambiance and delectable cuisine, the restaurant specializes in Mughlai and Pakistani dishes, prepared with meticulous attention to flavor and presentation.





### 7. Bashir Darul Mahi:

Situated along the banks of the Ravi River, Bashir Darul Mahi is a popular seafood restaurant renowned for its fresh catch and exquisite seafood preparations. From succulent fish tikkas to flavorful prawn curries, the restaurant offers a culinary journey through the coastal flavors of Pakistan.



These are just a few highlights of the culinary delights that await visitors in Lahore. With its diverse flavors, vibrant ambiance, and warm hospitality, Lahore's food scene promises an unforgettable gastronomic experience for travelers seeking to explore the rich tapestry of Pakistani cuisine.

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