PAKISTAN NATIONAL JOINT REGISTRY









Pakistan National Joint Registry 10th Annual Report



The Registry Of The Decade In Pakistan.

Theme: Healthcare Innovations in Pakistan, By The People Of Pakistan, For The People Of Pakistan.



Pakistan Arthroplasty Society (PAS) Pakistan National Joint Registry (PNJR) www.arthroplasty.org.pk www.pasnjr.org

رَبِّ اجْعَلْ هَٰذَا بَلَدًا آمِنًا

MY LORD, MAKE THIS LAND PEACEFUL

اے میرے پروردگار! اِس جگہ کو اَمن والا بنا دے

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QURAN (2:126)









04 Partners of Pakistan Arthroplasty Society (PAS)



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PAS Ir	PAS International Fellows		
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lst International Pak Arthroplasty Conference			



First CABG in Pakistan

Pakistan's first woman open-heart surgeon Dr Sohaila Mohsin Ali (first row, centre) performed the first heart bypass surgery at University Hospital in Karachi in November 1994.





Dear esteemed colleagues,

It is with great pleasure that I extend my sincerest gratitude to all members of our esteemed orthopaedic faculty for your dedication and commitment to advancing the field of orthopaedics. I am thrilled by the fact that PNJR has completed 10 years. It is a testament to our collective efforts in enhancing patient care, promoting research, and fostering collaboration within our institution.

This report represents the culmination of tireless work from a talented team of clinicians, researchers, and support staff. Through meticulous data collection and analysis, we will gain invaluable insights into joint replacement outcomes, patient satisfaction, and surgical techniques, further solidifying our position as leaders in orthopaedic excellence.

I commend the efforts of Professor Syed Shahid Noor who has taken a leap with an untiring effort for this project to consolidate. I also appreciate each and every one of this team for your unwavering dedication to improving the lives of our patients and for your contributions to this remarkable achievement. Your passion, expertise, and commitment to excellence continue to inspire us all.

As we reflect on the achievements highlighted in this report, let us also look ahead with optimism and determination. Together, we will continue to push the boundaries of innovation, elevate the standard of care, and make meaningful strides towards a healthier, more vibrant future for all.

Thank you for your ongoing support and dedication to our shared mission.

Warm regards,

Prof Khalid Masood Gondal

President College of Physicians and Surgeons Pakistan (CPSP)



Ventilator Made in Pakistan

Alsons Technologies, a company with a century-long history, began as watchmakers before expanding into strategic equipment for missile technology. In response to the global shortage of ventilators caused by the COVID-19 pandemic, they developed ALNNOVENT, an electro-mechanical ICU ventilator. Designed, developed, and manufactured by the Alsons Group in Pakistan, this ventilator is a critical life-saving device for modern ICUs, offering a range of monitoring parameters and modes at an affordable cost.





Dear Esteemed Fellows,

It is with great pleasure and pride that I extend my warmest greetings to each of you on the occasion of the 10th Report of the National Joint Registry. As we celebrate this significant milestone, we reflect on a decade of remarkable achievements, advancements, and impactful contributions to orthopaedic care in our nation.

Over the past ten years, the National Joint Registry has served as a beacon of excellence, facilitating the collection of invaluable data, fostering collaboration among healthcare professionals, and promoting evidence-based practices in joint arthroplasty. Through your dedication, hard work, and commitment to excellence, we have witnessed substantial improvements in patient outcomes, surgical techniques, and quality of care.

As we embark on the next phase of our journey, let us reaffirm our commitment to innovation, education, and patient-centric care. Let us continue to leverage the insights gained from the Pakistan National Joint Registry to drive further advancements in orthopaedic surgery, enhance patient satisfaction, and address the evolving needs of our society.

I extend my heartfelt gratitude to each member of the Pakistan Arthroplasty Society for your unwavering dedication, passion, and contributions to the field of joint arthroplasty. Together, we have achieved remarkable success, and I am confident that the next decade will bring even greater accomplishments and advancements.

Congratulations once again on this momentous occasion, and may we continue to work together towards a future where every individual has access to safe, effective, and compassionate orthopaedic care.

Warm regards,

Prof Muhammad Amin Chinoy

President Pakistan Arthroplasty Society (PAS)



HFNO/CPAP Device Made in Pakistan

A life sustaining device is made in accordance with design and specification of the UCL Ventura, a UK qualified sophisticated HFNO/CPAP device. ALNNO-VENTURA is manufactured under license and instructions from UCL Institute of Healthcare Engineering. The device was developed with reinforce from the PEC, Ministry of science and Technology and Government of Pakistan. It holds the distinction of being the first locally manufactured respiratory device to be approved for medical use by the DRAP. This is also developed by Also a technology during COVID





Dear Members of the Pakistan Arthroplasty Society,

As we mark the completion of a decade of the National Joint Registry, I am filled with immense pride and gratitude for the journey we have undertaken together. Over the past ten years, our commitment to advancing orthopaedic care in Pakistan has been unwavering, and the National Joint Registry stands as a testament to our collective dedication and perseverance.

In the face of unprecedented challenges, particularly during the COVID-19 pandemic, our resolve has been tested like never before. Yet, despite the obstacles and uncertainties, we have continued to forge ahead, adapting to new circumstances and finding innovative ways to fulfil our mission. From disruptions in elective surgeries to navigating supply chain issues, the pandemic has presented numerous challenges for the orthopaedic community. However, through our resilience and collective efforts, we have remained steadfast in our commitment to providing the highest quality of care to our patients.

Looking ahead, as we embark on our journey, let us draw inspiration from the successes of the past decade and reaffirm our commitment to excellence in orthopaedic care. Together, we will continue to leverage the insights gained from the National Joint Registry to drive improvements in patient outcomes, enhance surgical techniques, and shape the future of arthroplasty in Pakistan.

I extend my heartfelt appreciation to each and every one of you for your dedication, passion, and contributions to the success of the National Joint Registry. It is through our collective efforts that we have achieved this milestone, and I am confident that together, we will continue to make strides towards excellence in orthopaedic care for many years to come.

With warm regards,

Prof Maj G (Rt) Dr Sohail Hafeez

Past President Pakistan Arthroplasty Society (PAS)

J.



Pakistan's First Affordable and Bloodless Dialysis Machines

Over eight million patients globally lack access to dialysis, a costly and invasive procedure essential for those with kidney disease. In Pakistan, many dialysis patients face high costs and inadequate medical infrastructure. Byonyks, led by CEO Farrukh Usman and in collaboration with Pakistan's Ministry of Information, Technology, and Telecommunication, developed the country's first bloodless, risk-free dialysis machine. This innovative technology allows patients to perform dialysis at home without blood extraction or supervision, reducing the risk of life-threatening infections. Pakistan is now the fifth country to produce such technology, following the United States, Germany, Japan, France, and China.





It is with great pleasure that I, on behalf of the Health Research Advisory Board, welcome you to this milestone publication commemorating the 10-year anniversary of the Pakistan National Joint Registry (PNJR). This momentous occasion marks a decade of dedication, collaboration, and progress in advancing the field of orthopaedic care in Pakistan.

Established in 2014, the PNJR has been at the forefront of promoting evidence-based practice, improving patient outcomes, and enhancing the quality of joint replacement surgeries across the country. Over the past decade, our registry has grown to become a robust and reliable source of data, providing valuable insights into the trends, challenges, and successes of joint replacement procedures in Pakistan.

This publication celebrates the achievements of the PNJR and highlights the contributions of our dedicated team members, partners, and stakeholders who have worked tirelessly to make this vision a reality. It also showcases the impact of our work on the lives of thousands of patients who have undergone joint replacement surgeries, regaining their mobility, and rediscovering their quality of life.

As we reflect on our journey, we acknowledge the challenges we have faced and the lessons we have learned. We also look forward to the future, with a renewed commitment to innovation, excellence, and patient-centred care. We are proud to be part of this journey, shaping the future of orthopaedic care in Pakistan, and we invite you to join us in this celebration of our 10-year anniversary.

Sincerely,

Prof Dr Abdul Gaffar Billoo

Chairman Health Research Advisory Board (HRAB)

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Brain Controlled Bionic Arm

Pakistani software engineers Muhammad Umer Tariq, Muhammad Umar Lodhi, and Umair Ahmed have invented a thought-controlled bionic arm using Brain-Computer Interfaces (BCI). This arm integrates image processing, machine learning, artificial intelligence, networking, mechatronics, and hardware development. It uses non-invasive active electrodes on the head to sense brain signals, enhancing the typically low accuracy of non-invasive BCIs through advanced techniques. The system avoids internal brain surgery and can be easily installed on individuals missing an arm from the shoulder joint. The bionic arm features nine joint movements, including those of the shoulder, bicep, elbow, wrist, and individual fingers.





The Pakistan National Joint Registry (PNJR), is the first national healthcare registry in Pakistan, was launched on February 15, 2014, by the Pakistan Arthroplasty Society (PAS) and the Health Research Advisory Board (HRAB) at the College of Physicians and Surgeons of Pakistan in Karachi. Celebrating its tenth anniversary, the PNJR has marked a significant milestone, achieved by few countries globally.

The PNJR faced numerous challenges, including establishing a consensus among arthroplasty surgeons, developing a comprehensive data collection tool, ensuring data confidentiality, and creating appropriate software. Funding and training data operators were also significant hurdles. Despite these obstacles, the PNJR produced its first report in 2015, which received international acclaim at the 4th International Society of Arthroplasty Registries (ISAR) in Sweden as the only joint registry in South Asia meeting international standards.

Over the past decade, the PNJR has expanded, with an increasing number of investigators and participating hospitals, enriching its database and fostering collaboration within the orthopaedic community. The registry has received official accreditation from ISAR, the Network of Orthopaedic Registry in Europe (NORE), and the European Arthroplasty Registry (EAR).

Looking forward, the PNJR aims to continue leveraging data-driven insights to improve patient outcomes and advance orthopaedic care in Pakistan. The commitment of healthcare professionals, researchers, and patients has been crucial to its success. The PNJR's tenth report emphasizes the resilience and dedication of Pakistan's orthopaedic community, highlighting significant progress and the importance of collaboration and data-driven approaches in enhancing patient care and outcomes.

Sincerely,

Prof Syed Shahid Noor MD, FRCS (Tr & Orth)

Founder President, Pakistan Arthroplasty Society. Founder Director, Pakistan National Joint Registry. Founder Principal, Liaquat National Medical College. President, Asia Pacific Hip Society (2021-2023) President, Pakistan Orthopaedic Association (2017-2018)

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Portable Medical MRI

Hyperfine is an initiative of a Pakistani-American Radiologist, Engineer, Serial Entrepreneur, and Healthcare professional, Dr. Khan Siddiqui. Although the portable MRI machine's weight is around 635 Kgs, it is almost negligible compared to the 4,500 Kgs of a typical 1.5T MRI machine. A 3T MRI scanner weighs even more at 7,500 Kgs. What makes this MRI scanner portable is the wheel array at its bottom. Anyone can maneuver the machine through the wheel array without having to push 635 Kgs from room to room. Besides, Lucy's point-of-care MRI – as the portable device is known – will consume 35-times less power than the traditional MRI scanner.



1 | Prof Syed Shahid Noor

MBBS, FRCS(Eng), FRCS(Edin), FRCS(Tr&Orth) Patron, Pakistan Arthroplasty Society (PAS) Director, Pakistan National Joint Registry Head of Dept, Ortopedics, Liaquat National Hospital and Medical College, Karachi

2 | Prof Muhammad Amin Chinoy

MBBS, FRCS President, Pakistan Arthroplasty Society (PAS) National Coordinator, PNJR Head of Department of Orthopaedics, The Indus Hospital, Karachi.

3 | Dr Muhammad Kazim Rahim Najjad

MBBS, FCPS (Orth), FRCS(Glas) Treasurer, Pakistan Arthroplasty Society (PAS) Associate Professor, Department of Orthopaedics Liaquat National Hospital and Medical College Karachi.

4 | Dr Nasir Ahmed

MBBS, FCPS (Orth) Joint Secretary Sindh, Pakistan Arthroplasty Society (PAS) Assistant Professor, Department of Orthopaedics Liaquat National Hospital and Medical College Karachi.

5 | Dr Twahir Kalekhan Dina

MBBS, MRCS (Edin), FCPS (Orth) Senior Registrar, Department of Orthopaedics Liaquat National Hospital and Medical College, Karachi.

6 | Dr Arsalan Ghazi

MBBS, FCPS (Orth)

Senior Registrar, Department of Orthopaedics Liaquat National Hospital and Medical College, Karachi.

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NUST's Cardiac Stents Production

Biomedical Engineering Department at the National University of Sciences and Technology (NUST), Islamabad, finally developed cardiac stents in 2020.Dr. Murtaza Najabat Ali worked on this project individually for 11 years and with his team for another 3. The locally produced stents were tested extensively compared to their international counterparts and be at par with the imported stents' clinical performance.

PNJR Steering Committee



Prof Syed Shahid Noor Director PNJR



Prof Muhammad Amin Chinoy National Coordinator PNJR Chinoy786@gmail.com



Dr Imran Haider Qaisrani Regional Coordinator PNJR (Punjab)



Dr Imran Bukhari Regional Coordinator PNJR (KPK)

dr.imran@nwgh.pk



Dr Nasir Ahmed Regional Coordinator PNJR (Sindh) Makbonedoc65@gmail.com



Dr Saleh Mohammad Tareen Regional Coordinator PNJR (Balochistan)



3D Bioprinting for thr Future

AKUH's Center for Regenerative Medicine and Stem Cell Research is at the forefront of using this system. Dr Sharin Rajput, Assistant Professor at the centre, explained that the bioprinter, akin to a conventional printer, distinguishes itself by containing biological material, including bioink and cells.

PAS Current National Board



Prof Syed Shahid Noor Patron, PAS Liaquat National Hospital and Medical College, Karachi



Prof Muhammad Amin Chinoy President, PAS The Indus Hospital, Karachi



Prof Maj. General Sohail Hafeez Past President, PAS Shifa International Hospital, Islamabad



Prof Maj General Suhail Amin President Elect CMH, Rawalpindi



Prof Muhammad Arif Khan General Secretaryr, PAS Hayatabad Medical Complex, Peshawar



Dr M. Kazim R. Najjad Treasurer, PAS Liaquat National Hospital and Medical College, Karachi



Dr Syed Imran Bukhari Vice President North Lady Reading Hospital Medical Teaching Institute, Peshawar



Dr Nasir Ahmed Vice President South Liaquat National Hospital and Medical College, Karachi



Prof Faisal Masood Joint Secretary North King Edward Medical University, Lahore



Dr Shahjahan Siyal Joint Secretary South SMBB Medical University, Larkana



Dr Israr Ahmed Executive Member Hayatabad Medical Complex, Peshawar



Dr Mehroze Zamir Executive Member Patel Hospital, Karachi



Dr Muhammad Tariq Hasni Executive Member Sultan Tareen Healthcare Hospital, Ouetta



Dr Obaid Ur Rehman Executive Member National Orthopaedic and Specialist Hospital, Islamabad

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Lab Diagnostic Systems Made in Pakistan

Lab Diagnostic Systems, an established company in Pakistan, manufactures a wide range of rapid testing kits. They have also developed the i-sugar glucometer, providing a reliable and affordable local option for blood sugar monitoring in Pakistan.

PNJR Data Coordinator Committee





Muhammad Asim Lead Developer and PNJR Application Manager CEO, Collage Solutions



Yasmeen Fazal National Coordinator



Ali Hyder Qureshi Secretary, PAS Supporting Team



Dr Kamlesh Supporting Team Consultant Anaesthatist Surgical ICU Civil Hospital Karachi



Naeem Khan Supporting Team



Faisal Farooq Supporting Team and PNJR Graphic Expert



Medical Furniture and Autoclave Manufacturing in Pakistan

WIN MED is a leading medical furniture manufacturer in Pakistan, providing solutions for the modern healthcare sector. They specialize in a wide range of products, including hospital beds, patient trolleys, treatment carts, and steel fabrication.

One of notable successes is the production of an automatic autoclave machine that meets international standards, which has been installed in various hospitals across the country.

INTRODUCING PART 1

PNJR 10th Annual Report

Journey of PAS and PNJR SECTION I

PNJR 10th Annual Report

Broadening Partnerships with Health Registries

The Pakistan National Joint Registry (PNJR) has been a trailblazer in healthcare registry development in Pakistan, setting a high standard for others to follow. Our collaboration with the Health Registry Advisory Board (HRAB) has cemented our leadership position in the field, enabling us to partner with numerous healthcare registries over the past five years. these Through partnerships, we have introduced innovative concepts such as disease-specific registries, emphasising the importance of International Conference on Harmonization-Good Clinical Practice (ICH-GCP) guidelines in establishing and conducting health registries across the board. Moreover, we have fostered a culture of continuous improvement through regular data updates and feedback mechanisms, ensuring that our registries remain dynamic and responsive to the needs of healthcare professionals and patients alike.

As we look to the future, our next step is to governing establish a bodv for all healthcare-associated registries, ensuring compliance with the highest standards of data quality, security, and ethical governance. While this is a challenging task, given the voluntary nature of current registries, our partnerships with other medical fields have allowed us to set an example and inspire other registry steering committees to follow suit. We are confident that these partnerships will lead to a unified effort to create a voluntary governing body for healthcare registries in Pakistan, ultimately paving the way for a national healthcare database that can inform policy, improve patient outcomes, and enhance the quality of care.

Our vision is ambitious, but achievable. We envision a future where healthcare registries become an integral part of the healthcare landscape in Pakistan, providing valuable insights and data to inform decision-making at all levels. We see a future where these registries become mandatory, integrated with local health authorities, and aligned with international best practices. And we are committed to making this vision a reality, demonstrating a successful model that can be replicated nationwide. We look forward to sharing our progress and successes in future PNJR annual reports, highlighting our role in igniting the spark for a national healthcare database that will transform the face of healthcare in Pakistan. Upgrades in Data Collection Model to address Data Completeness SECTION II

> PNJR 10th Annual Report

Upgrades in Data Collection Model to address Data Completeness

The Pakistan National Joint Registry (PNJR) has been committed to continuous improvement, and constantly refining enhancing its processes to ensure the highest quality of data and user experience. One of the most recent and significant additions to the online Case Report Form (CRF) is the introduction of an option for entering bilateral simultaneous joint arthroplasty data. This innovative feature has streamlined the data entry process, allowing users to enter data for one side of the joint and automatically retrieving the patient's information for the second side. This saves time and reduces the likelihood of errors, making it easier for surgeons to focus on providing the best possible care for their patients.

The system's flexibility allows surgeons to modify data entries as needed, selecting the type of implant used and adjusting other variables to ensure accurate and comprehensive data collection. To ensure the integrity and reliability of the data, the PNJR regularly monitors team entries for completeness and accuracy, conducting a thorough review every three months. This rigorous quality control process helps identify and address any missing or erroneous entries, ensuring that the data is reliable and trustworthy.

To further facilitate data entry and improve the overall user experience, the PNJR has expanded its team by hiring additional data collection officers. These dedicated professionals work closely with hospitals and healthcare providers across the country, collecting paper-based CRFs and ensuring that data is entered accurately and efficiently. Our fully functional data collection teams are strategically located nationwide, enabling us to reach a wider audience and collect data from a diverse range of healthcare settings.

In addition to our data collection efforts, we also provide ongoing training and support for

Principal Investigators (PIs) and other users. Our comprehensive training program ensures that new users are proficient in using the online CRF and understand the importance of accurate and complete data entry. Our original users have become highly comfortable with the data entry process, and we continue to train new users to ensure seamless adoption and minimise anv disruptions to the data collection process.

By continuously improving our processes, expanding our team, and providing ongoing training and support, we are confident that the PNJR will remain a leader in healthcare data collection and analysis, providing valuable insights and information to improve patient outcomes and advance the field of orthopaedic care.

Appendices:

- 1. Total Knee Arthroplasty CRF
- 2. Total Knee Arthroplasty Follow up Form
- 3. Total Hip Arthroplasty CRF
- 4. Total Hip Arthroplasty Follow up Form





Number of Hospitals in PNJR Network

Number of Surgeons in PNJR Network







PNJR Partnership with HRAB SECTION III

PNJR 10th Annual Report



Health Research Advisory Board

Health Research Advisory Board (HealthRAB) a registered society is a "think tank" of senior clinicians, researchers & academicians who are committed to "Developing Health Research Ecosystem"



Vision

Improving health globally by developing a relevant & efficient research ecosystem

Objectives

Provide leadership for developing the health research ecosystem. Build capacity of the human resource involved in conducting research. Create synergy among the existing stakeholders and bring them together.

Collaborate & network locally as well as globally to initiate research activities. Facilitate the development & implementation of research policy & strategy

Leadership



Chairman Prof. Dr. Abdul Gaffar Billoo

Ior. Dr. Abdul Gullur Bill

Professor Emeritus, Department of Paediatrics and Child Care. Aga Khan University Hospital Chairman, HANDS

Vice Chairman Prof. Dr. Abdul Basit

Director, Baqai Institute of Diabetology and Endocrinology Professor of Medicine, Baqai Medical University





General Secretary Dr. Zakiuddin Ahmed

Adjunct Professor, Digital Health, HSA Project Director, Riphah Institute of Healthcare Improvement & Safety (RIHIS)

Finance Secretary Prof. Dr. Syed Shahid Noor

Founding Director, PNJR Founding President, Pakistan Arthroplasty Society Chairman - Registry Committee HealthRAB



PNJR Partnership with HRAB

Projects



Board Members



PNJR Stake Holders Network **SECTION IV**

PNJR 10th Annual Report
PNJR Stake Holders Network

The Pakistan National Joint Registry (PNJR) is grateful for the unwavering commitment and support of its valuable stakeholders, who have played a crucial role in achieving our first-year targets. We would like to acknowledge the significant contributions of the following stakeholders:

I. Pakistan Arthroplasty Society (PAS)

The board and members of PAS have taken full ownership of the PNJR project, providing extensive human and financial resources. PAS is the exclusive financial supporter of PNJR, and we appreciate their dedication to this initiative.

II. Patients

Our patients are at the heart of everything we do. Without their contributions, we would not have been able to achieve this milestone. We are grateful for their trust and participation, which will enable us to reach new heights in scientific research and benefit the masses. The PNJR steering committee extends its sincere thanks to all patients who have contributed to this first annual report.

III. Research/Registry **Development Partners**

Metrics Research Pvt. Ltd.

Metrics Research took on the challenge of this project and provided dedicated services in protocol design, CRF development, ICF, data entry, and data analysis. Their experienced team members assisted PNJR in every step of development and publication.

IV. Collage Solutions

Collage Solutions brought extensive experience knowledge and in data management, EDC, eCRF, CTMS design, and development to the table. They provided expertise in developing the PNJR registry

Database, Offering Services Such As Data Management, Data Tracking, Data Backup, And Cleaning, As Well As Complete Audit Trails, Report Generation, And Dataset Building For Sas/spss Analysis. They Also Helped Resolve Technical Site Issues And Provided Training And Support To Maintain Data Quality.

Iv. Affiliated Institutions/ **Clinical Sites**

Institutes Are The Backbone Of Any Clinical Research Activity. Our Registered Hospitals Have Supported Us By Providing Access To Patient Data, Logistics For Data Entry, Utilities, And The Use Of Their Valuable And Reputable Name.

Sindh

Karachi

- 1. Liaguat National Hospital & Medical College
- 2. The Aga Khan University and Hospital
- 3. The Indus Hospital
- 4. Institute of Orthopaedic & Surgery
- 5. Ziauddin University and Hospital Clifton
- 6. Jinnah Postgraduate Medical Centre
- 7. Civil Hospital, Dow University of Health Sciences
- 8. Abbasi Shaheed Hospital
- 9. Dow International Medical College, DUHS
- 10. Medicare Cardiac & General Hospital
- 11. South City Hospital
- 12. **AO Clinic**
- 13. Ashfaq Memorial Hospital
- 14. **Combined Military Hospital**
- 15. Darul Sehat Hospital
- 16. National Medical Center
- 17. Orthopaedic & Medical Institute OMI
- 18. Fatimiyah Hospital
- 19. Hamdard Hospital
- 20. TO Clinic
- 21. Hill Park General Hospital
- 22. Jinnah Medical & Dental Hospital
- 23. KPT Hospital
- 24. Ankle Saria Hospital





- 25. Mamji Hospital
- 26. Burhani Hospital
- 27. Memon Medical Institute Hospital
- 28. Neurospinal & Cancer Care Institute
- 29. Park Lane Hospital
- 30. Patel Hospital
- 31. PNS Shifa Bahria University Medical & Dental College
- 32. Saifee Hospital
- Karachi Adventist Hospital (7th Day Hospital)
- 34. Zubaida Medical Centre
- 35. The SNBB Truma Centre
- 36. Imam Clinic
- 37. Lyari General Hospital
- 38. Aiwan-e-Tijarat-o-Sanat Hospital Trust
- 39. Dr. Ziauddin Hospital (North)
- 40. Chiniot Hospital Korangi

Hyderabad

- 41. Bone and Joints Hospital
- 42. LUMHS Hospital Jamshoro

Larkana

43. Chandka Medical College & Shaheed Benazir Bhutto Medical Institute

Nawabshah

- 44. Nawabshah Medical College & Hospital
- 45. Shafique Medical Center
- 46. Mastoi Medicare

Sukkur

- 47. Bhatti Hospital
- 48. Sukkur Blood Bank Hospital
- 49. Gambat Pir Abdul Qadir Shah Jilani Institute of Medical Sciences

Punjab

Lahore

- 50. Ghurki Trust Teaching Hospital
- 51. King Edward Medical University (KEMU)
- 52. Combine Military Hospital
- 53. Doctors Hospital
- 54. Shalamar Medical College
- 55. Jinnah Hospital
- 56. Allama Iqbal Medical College
- 57. Lahore General Hospital
- 58. Sheikh Zayed Hospital
- 59. Shoukat Khanum Hospital
- 60. Services Institute of Medical Sciences (SIMS)
- 61. Horizon Hospital
- 62. Sir Ganga Ram Hospital
- 63. Masood Hospital
- 64. Govt. Nawaz Sharif Hospital
- 65. Family Hospital
- 66. Mid City Hospital Jail Road
- 67. National Hospital Defence Lahore
- 68. Services Hospital
- 69. Wapda Teaching Hospital
- 70. Wah Medical College & POF Hospital

Islamabad / Rawalpindi

- 71. Shifa International Hospital
- 72. Quaid-e-Azam International Hospital
- 73. Combined Military Hospital
- 74. Shaheed Zulfiqar Ali Bhutto Medical University
- 75. Kulsum International Hospital
- 76. Ali Medical Centre
- 77. Maroof International
- 78. NESCOM Hospital
- 79. KRL Hospital
- 80. Benazir Bhutto Hospital
- 81. Capital Hospital
- 82. DHQ Hospital
- 83. Fauji Foundation Hospital
- 84. National Institute of Rehabilitation Medicine
- 85. OGDCL Medical Centre
- 86. Rawalpindi Medical College



Multan

- 87. Nishtar Medical College & Hospital
- 88. Combined Military Hospital
- 89. Fatima Medical Center

Bahawalpur

- 90. Bahawal Victoria Hospital
- 91. Cheema Hospital

Faisalabad

92. Allied Hospital

Gujranwala

- 93. Chattha Hospital
- 94. District Head Quarter Hospital
- 95. Med Care Hospital

Sialkot

96. Combined Military Hospital

Kharian

97. Combined Military Hospital

Rahim Yar Khan

98. Sheikh Zayed Medical College and Hospital

Khyber Pakhtunkhwa 🎽

Peshawar

- 99. Hayatabad Medical Complex
- 100. Khyber Teaching Hospital
- 101. North West General Hospital, Hayatabad
- 102. Rehman Medical Institute
- 103. Aman Hospital, Civil Quarters

Abbottabad

104. Ayub Medical College

Baluchistan

Quetta

- 105. Bolan Medical College
- 106. Doctors Hospital
- 107. Akram Hospital

Principal Investigators V

Surgeons who strive hard to enter the data and keep the registry ticking are what keeps this registry alive. Following is the list of our registered investigators.

Sindh

Karachi

- Prof. Syed Shahid Noor 1.
- 2. Prof. Muhammad Umar
- 3. Prof. Zaki Idrees
- 4. Prof. Muhammad Amin Chinov
- 5. Prof. Mansoor Ali Khan
- 6. Prof. Anisuddin Bhatti
- Prof. Maratib Ali 7.
- 8. Prof. Pervez Anjum
- 9. Prof. Intikhab Taufiq
- 10. Prof. Imtiaz Ahmed Hashmi
- 11. Prof. Syed Kamran Ahmad
- 12. Prof. Ghulam Mustafa Kaim Khani
- 13. Prof. Asif Oureshi
- 14. Prof. A R Jamali
- 15. Dr. Masood Umer
- Dr. Riaz Hussain Lakdawala 16.
- 17. Dr. Pervaiz Hashmi
- 18. Dr. Sharyar Noordin
- 19. Dr. Mujahid Jamil
- 20. Dr. Nasir Ahmad
- 21. Dr. Aslam Pervez



- 22. Dr. Imran Ali Shah
- 23. Dr. Sohail Rafi
- 24. Dr. Tashfeen Ahmed
- 25. Dr. M. Ather Siddigi
- 26. Dr. M. Asif Peracha
- 27. Dr. Syed Amir Ali Shah
- 28. Dr. S. Ghazanfar Ali Shah
- 29. Dr. M. Kazim R. Najjad
- 30. Dr. Muhammad Sufyan
- 31. Dr. Arshad Qamar
- 32. Dr. Idrees Shah
- 33. Dr. Farooq Mamji
- 34. Dr. Iqbal Malik
- 35. Dr. Syed Itaat Zaidi
- 36. Dr. Sved Muhammad Khalid Karim
- 37. Dr. Lt. Col Waris Ali Shah
- 38. Dr. Lt. Col Syed Faraz Anwar
- 39. Dr. Mirza Mohsin Ali Jah
- 40. Dr. Jagdesh Kumar
- 41. Dr. Arshad Jamil
- 42. Dr. Akram M. Aliuddin
- 43. Dr. Syed Danish Ali
- 44. Dr. Sabih Nasar

Hyderabad

45. Dr. Rais Parvaiz

Larkana

- 46. Prof. Asadullah Mahar
- 47. Dr. Zamir Soomro
- 48. Dr. Azizullah Bhayo
- 49. Dr. Abdul Malik Shaikh

Nawabshah

- 50. Prof. Zulfiqar Ali Mastoi
- 51. Dr. Saeed Samo

Sukkur

- 52. Prof. Anisuddin Bhatti
- 53. Dr. Zulfigar Ali Soomro
- 54. Dr. Sohail Jokhyo

Punjab

Lahore

- 55. Prof. Ghazanfar Ali Shah
- 56. Prof. Amer Aziz
- 57. Prof. S. Muhammad Awais
- 58. Prof. Abu Bakar Siddia
- 59. Prof. Rana Dilawaiz Nadeem
- 60. Brig. Prof. Sohail Amin
- 61. Prof. Muhammad Abdul Wajid
- 62. Prof. Naeem Ahmed
- 63. Prof. Shahzad Javed
- 64. Prof. Irfan Mehboob
- 65. Prof. Yawar Anis
- 66. Prof. Shafique Ahmad Shafaq
- 67. Prof. Rana M. Arshad
- 68. Prof. Ali Raza Hashmi
- 69. Prof. Tahseen Riaz
- 70. Dr. Ahsan Shamim
- 71. Dr. Mian Muhammad Hanif
- 72. Dr. Faisal Qamar
- 73. Dr. Syed Kashif Mehdi
- 74. Dr. Sher Afgan
- 75. Dr. Rizwan Akram
- 76. Dr. Muhammad Naveed
- 77. Dr. Muhammad Akhtar Malik
- 78. Dr. Mohammad Fahim Igbal
- 79. Dr. Khurram Sadat
- 80. Dr. Javed Igbal
- 81. Dr. Ijaz Ahmad 82. Dr. Faisal Masood
- 83. Dr. Atiquz Zaman
- 84. Dr. Abdullah Shah
- 85. Dr. Rashid

Islamabad / Rawalpindi

- 86. Prof. Maj. Gen. Sohail Hafeez
- 87. Prof. Khalid Aslam
- 88. Prof. Riaz Ahmed Shaikh
- 89. Prof. Nayyar Qayyum
- 90. Prof. Muhammad Salim
- 91. Brig. Dr. Syed Arsalan Haider Bukhari
- 92. Dr. Aamir Nabi Nur
- 93. Dr. Farid Ullah Khan Zimri



- 94. Dr. Irfan Masood
- 95. Dr. Syed Shujaat Ali Shah
- 96. Dr. Shaheen Iqbal
- 97. Dr. Sajjad Orakzai
- 98. Dr. Rizwan Hameed Malik
- 99. Dr. Riffat Mehmood
- 100. Dr. Nouman Maqbool
- 101. Dr. Moghees Ikram Ameen
- 102. Dr. Ali Shami
- 103. Dr. Ali Khokhar
- 104. Dr. Ali Akhter
- 105. Dr. Abidullah Khan Niazi
- 106. Dr. Obaid-ur-rehman
- 107. Dr. Asim Niaz Naqvi
- 108. Dr. Abdul Basit
- 109. Dr. Syed Sajid Hussain
- 110. Dr. Faheem Khan

Multan

- 111. Dr. Khalil Ahmed Gill
- 112. Dr. Col. Sohail Muzammil
- 113. Dr. Mohammad Kamran Siddigi
- 114. Dr. Muhammad Jehangir Riaz

Bahawalpur

- 115. Prof. Tehseen Cheema
- 116. Prof. Rafiq Sabir
- 117. Dr. Hafiz Muhammad Akram

Faisalabad

- 118. Prof. Ajmal Yasin
- 119. Dr. Khurram Habib

Gujranwala

- 120. Dr. Hafiz Ahmad Fayyaz
- 121. Dr. Ahmed Masood Ghumman
- 122. Dr. Faisal Iqbal Chaudhry

Sialkot

123. Dr. Shahid Munir

Kharian

124. Dr. Nisar Ahmed

Rahim Yar Khan

- 125. Prof Muhammad Azeem
- 126. Dr. Abdul Rauf Chaudhry

Khyber Pakhtunkhwa 🥖

Peshawar

- 127. Prof. Zafar Durrani
- 128. Prof. Muhammad Arif Khan
- 129. Prof. Zahid Askar
- 130. Prof. Raja Irfan Qadir
- 131. Prof. Khushnood Ali Baz
- 132. Prof. Malik Javed
- 133. Prof. Ayaz Khan
- 134. Dr. Zeeshan Khan
- 135. Dr. Sved Imran Bukhari
- 136. Dr. Israr Ahmad
- 137. Dr. Ghulam Atiq
- 138. Dr. Awal Hakeem
- 139. Dr. Waseem Anwer

Abbottabad

140. Dr. Alamzeb Khan

Baluchistan

Quetta

- 141. Prof. Qazi Masood
- 142. Dr. Saleh Muhammad Tareen
- 143. Dr. Muhammad Baksh Shahwani
- 144. Dr. Attig Ur Rehman
- 145. Dr. M. Tariq Hasni







PNJR-Protocol V 1.0-Knee form-version# 2.0-Date: January 25th, 2014

	NT REGISTRY
TABLE COMMITTING (2-2)	PLASTY SUCIET
PNJR No 12. THROMBOPROPHYLAXIS CHEMICAL NO Yes ILMWH Pentasaccharide Warlarin Direct Thrombin Inhibitor Aspirin Other Other 13. ANTIBIOTIC Generic Route Duration (Days) 1 IV / Oral 2 IV / Oral	B • TIBIAL COMPONENTS (Mark relevant box, place company labels or complete details by hand) NONE All POLY BASE PLATE INSERT STEM Company Prosthesis Name Cat/Ref # Size TIBIAL CEMENT: No Yes CEMENT NAME: TIBIAL AUGMENTS No Yes Step Wedge Medial Lateral Full
14. POST-OP PAIN MANAGEMENT PCA (days) PCA (days) Epidural (days) Evidence Evidence <tr< td=""><td>■ Hemi Wedges ■ Medial ■ Lateral ■ Full ■ Screws ●No ● Yes Number</td></tr<>	■ Hemi Wedges ■ Medial ■ Lateral ■ Full ■ Screws ●No ● Yes Number
IM Oral (days) 15. CLINICAL & RADIOLOGICAL IMAGE Clinical Image Radiological Image 16. IMPLANT DETAILS IMPLANT DESIGN CR PS Fixed Bearing Mobile Bearing High Flex CCK	C - PATELLA COMPONENT • No • Yes Company Prosthesis Name. Size Cat/Ref # Size Size PATELLA CEMENT: • No • Yes CEMENT NAME: 17. COMPUTER ASSISTED • No • Yes
Metaphyseal Seleeve Trabecular Metal Cone A - FEMORAL COMPONENT NONE FEMORAL STEM Company Prosthesis Name Cat/Ref # Size	System Used
FEMORAL AUGMENTS (Complete details by marking boxes) No Yes Distal femoral Medial Lateral Posterior condyle Medial Lateral FEMORAL CEMENT: No Yes CEMENT NAME:	Completed by:

PNJR-Protocol V 1.0-Knee form-version# 2.0-Date: January 25th, 2014



Date: / / / / /

KNEE FOLLOW-UP FORM

PATIENT DETAILS

Surname	Given Name	CNIC #
Tel / Cell #	Hospital	Surgeon
Date of Surgery	.TKR (L/R)	Hospital Reg. #

FOLLOW-UP VISIT

\Box 2 Weeks		6 Weeks	□ 3 Months	6 Months
□ 1 Year		5 Years	□ 10 Years	15 Years
□ 20 Years		Others		
FUNCTIONAL SCORE		(0-100)		
KNEE SOCIETY SCORE	1	(0-100)		

COMPLICATIONS

□ Hematoma	\Box DVT	\Box PE
□ Nerve Palsy	□ Fracture	\Box Others
□ Wound Dehiscence	□ Infection	

Surgeon Comments		
Completed by:	Signature:	

NAMA MA NATIONAL JOINT REGISTRY HIP FORM Page (1-2) SOCI ARTHROPLASTY PNJR No..... 1. PATIENT DETAILS 9. DIAGNOSIS AND PROCEDURE DETAIL Surname Given Names Primary THA Revision THA ● R ● L Diagnosis **B** Diagnosis Weight....., (Kg) Height...., (Feet) BMI....., Oteolysis Infection Osteoarthritis Address Instability Dislocation Secondary Osteoarthritis, Post Code Aseptic Loosening Rheumatoid Arthritis Acetabulum Femur Other Inflammatory Arthritis 2. HOSPITAL & CONSULTANT DETAIL Periprosthetic Fracture Osteonecrosis/Avascular Necrosis Acetabulum Femur Hospital Province..... Tumour (Specify) Implant Breakage Consultant Surgeon......Asst. Surgeon..... Date of Admission/..... Date of Operation....../....../...... Previous Implant Used (Specify) Other (Specify) Date of Discharge/..... Hosp Registration No..... 10. ANAESTHESIA DETAILS 3. PRE OPERATIVE DEFORMITY ASA GRADE TYPE OF ANAESTHESIA Fixed flexion deformity (degree) ●1 ●2 ●3 ●4 General Spinal Epidural Abduction deformity (degree) 11. SURGICAL DETAILS General + Epidural Adduction deformity (degree) Ankylosis ONo OYes POSITION Spinal + Epidural Supine 4. PRE OPERATIVE RANGE OF MOTION APPROACHES Lateral Extended Trochanteric Osteotomy Flexion (degree) INCISION Extensile Approach Anterior (Smith Peterson) Abduction (degree) Standard 🔲 Internal Rotation (degree) 🔳 External Rotation (degree) Anterolateral (Watson Jones) 5. COMORBIDITIES 🔵 No Yes Lateral (Hardinge) DRAIN BONE GRAFT 🗖 DM 🔲 Asthma 🔲 HTN 🔲 IHD 📰 CKD 🔵 No 🛛 🔵 Yes Posterior (Southern) Previous hip surgery Hepatitis Others 12. ADVERSE INTRA OPERATIVE EVENT No Yes 6. AMBULATORY STATUS Fracture Nerve Inury With support Without support Community Ambulator Vascular Injurv L Abductor avulsion injury Others Home Ambulator With support Without support 13. THROMBOPROPHYLAXIS Non Ambulator CHEMICAL NO Yes MECHANICAL ONO Yes 7. HARRIS HIP SCORE LMWH Pentasaccharide Warfarin Foot Pump T.E.D Stocking (0 - 100) Direct Thrombin Inhibitor Aspirin Intermittent Calf Compression 8. CLINICAL & RADIOLOGICAL IMAGE Other Other Clinical Image Radiological Image

PNJR-Protocol V 1.0- Hip form-version# 2.0-Date: January 25th, 2014

HIP FORM Page (2-2)	JOINT REGISTRY
HIP FORM PNJR NO PNJR NO PNJR NO Ceneric Route Duration (Days) 1 <	Image: State Stat
 Shape Straight Double tapered Flanged CEMENTING TECHNIQUE Vacuum mixing Cement restrictor Stem centralizer Pulse lavage Cement gun Proximal pressurizer UNCEMENTED CUP Hemisphere Porous coated HA coated With spikes Dual Mobility Double cup Jumbo cup Screw No Yes No, 	ACEIABOLUM CEMENT: No Yes CEMENT NAME: 17. COMPUTER ASSISTED No Yes 17. COMPUTER ASSISTED No Yes System Used 18. POST-OP REHABILITAION PROTOCOL Non weight bearing Full weight bearing Death Completed by: Date/ Date/
	Signature:

PNJR-Protocol V 1.0- Hip form-version# 2.0-Date: January 25th, 2014



Date: / /

HIP FOLLOW-UP FORM

PATIENT DETAILS

PNJR No

Surname	Given Name	CNIC #
Tel / Cell #	Hospital	Surgeon
Date of Surgery	THR (L/R)	Hospital Reg. #

FOLLOW-UP VISIT

\Box 2 Weeks	6 Weeks	□ 3 Mor	nths	6 Months
□ 1 Year	5 Years	□ 10 Yea	ars	15 Years
□ 20 Years	Others			
HARRIS HIP SCORE	(0-100)			
COMPLICATIONS				
□ Hematoma	□ Wound Dehis	cence		Infection
□ Dislocation	□ DVT			PE
□ Nerve Palsy	□ Fracture			Others
Surgeon Comments	 			
Completed by:	 		Signature:	

Data Analysis and Reporting **PART 2**

PNJR 10th Annual Report Primary Total Knee Arthroplasty **SECTION I**

PNJR 10th Annual Report





Gender Distribution



Age Category









Geographical Distribution

Diagnosis





















Pre-operative deformity

ASA Grading









Anaesthesia

Implant Types according to level of constraint





Implant Types according to Fixation of Tibial Insert



Implant Types according to built in flexion







Thromboprophylaxis



Primary Total Knee Arthroplasty



Adverse intraoperative events









Revision Total Knee Arthroplasty **SECTION II**

PNJR 10th Annual Report

































R









Implant Detail





Primary Total Hip Arthroplasty **SECTION III**

PNJR 10th Annual Report







Age Category ■ 7th Year ■ 8th Year ■ 9th Year ■ 10th Year < 50 51-80 >80




















Primary Total Hip Arthroplasty















Surgical Incisions















Adverse Intraoprative Events

■ 7th Year ■ 8th Year ■ 9th Year ■ 10th Year



III Primary Total Hip Arthroplasty





Post operative Analgesia

Implant Details







Cementing Technique



Primary Total Hip Arthroplasty



Primary Hip Implant Vendor Data



Revision Total Hip Arthroplasty **SECTION IV**

PNJR 10th Annual Report







Gender Distribution

Age Category





















■ 7th Year ■ 8th Year ■ 9th Year ■ 10th Year

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Diagnosis



PAS International Fellows



Dr Muhammad Ather Siddiqi Singapore General Hospital, Singapore.



Dr Syed Amir Ali Shah Singapore General Hospital, Singapore.



Dr Tariq Hasni Chang Gung Memorial Hospital, Linkou, Taiwan.



Dr Imran Bukhari Singapore General Hospital, Singapore



Dr Wagas Ali University Hospital of Leicester NHS Trust, UK



Dr Muhammad Yasir Pervez Australian Orthopaedic Association Fellowship, Sydney, Australia



Dr Irfan Muhammad Rajput University Hospital of Leicester NHS Trust, UK



Dr Muhammad Jahangir Riaz National University of Singapore



Dr Muhammad Sufyan Past President Singapore General Hospital, Singapore





Dr. Nasir Ahmed LNH, Karachi



Dr. Syed Imran Bukhari LNH & MC, Karachi



Dr. Obaid-ur-Rehman CMH, Rawalpindi



Dr. Roohullah Jan CMH, Rawalpindi



Dr. M. Kazim R. Najjad LNH & MC, Karachi



Dr. Ghulam Abbas Jafri GTTH, Lahore



Dr. Muhammad Jahangir Riaz IOS, Karachi



Dr. Waqas Ali IOS, Karachi



Dr. Ghazanfar Ali Shah LNH & MC, Karachi





Dr. Syed Kashif Mehdi СМН, Rawalpindi



Dr. Sher Afgan GTTH, Lahore



Dr. Hafiz Ahmed Fayyaz Bajwa LNH & MC, Karachi



Dr. Kashif Siddiq IOS, Karachi



Dr. Syed Ali Anwar Jilani CMH, Rawalpindi



Dr. M. Irshad Khan QIH, Islamabad



Dr. Hafiz Azhar Hussain CMH, Rawalpindi



Dr. Ali Amjed Shifa International Hospital, Islamabad



Dr. M. Imran Haider LNH & ISO, Karachi





Dr. Aziz ur Rehman CMH, Rawalpindi



Dr. Akram M. Aliuddin LNH & ISO, Karachi



Dr. Mehroze Zamir LNH, Karachi



Dr. Vickash Kumar ISO & South City Hospital, Karachi



Dr. Saifullah Soomro Shifa International Hospital, Islamabad



Dr. Usman Nazir Gill LNH & ISO, Karachi



Dr. Shahjaha Siyal LNH & ISO, Karachi



Dr. Mohsin Javid CMH, Rawalpindi



Dr. Faisal Iqbal LNH, Karachi





Dr. Zubair khalid GTTH, Lahore



Dr. Naveed Khan LNH, Karachi



Dr. Zohaib Nadeem Shifa International Hospital, Islamabad



Dr. Faheem Sultan Ghori Indus Hospital, Karachi



Dr. Nauman Abbas GTTH, Lahore



Dr. Muhammad Yasir Pervez CMH, Rawalpindi



Dr. Imran Shabir Mughal LNH & MC, Karachi



Dr. Noman Shakeel Niazi GTTH, Lahore



Dr. Irfan Muhammad Rajput IOS, Karachi





Dr. Muhammad Zeeshan Aslam CMH, Rawalpindi



Dr. Muhammad Shehryar Zia CMH, Rawalpindi



Dr. Naveed Ahmed Jumani Indus Hospital, Karachi



Dr. Nouman Memon LNH, Karachi



Dr. Muhammad Bilal Shifa International Hospital, Islamabad



Dr. Syed Wajahat Kamal Indus Hospital, Karachi



Dr. Sateesh Pal IOS, Karachi



Dr. Yasir Habib Shifa International Hospital, Islamabad



Dr. Hisham Khan CMH, Rawalpindi

1st International Pak Arthroplasty Conference

1ST – 3RD DECEMBER 2023 PEARL CONTINENTAL HOTEL, KARACHI, PAKISTAN

The 1st Pak International Arthroplasty Conference, hosted at the Pearl Continental Hotel in Karachi from 1st to 3rd Dec, 2023. It was first of its kind. It wan organised by Pakistan Arthoplasty Society in collaboration with Asia Pacific Arthroplasty Society, Asia Pacific Hip Society, Asia Pacific Knee Society, Asia Pacific Orthopedic Association and Indonesia Hip and Knee Society.

The conference was a notable success, attracting delegates from all over the country. The conference featured a distinguished roster of international faculty, with several attending in person and others joining virtually. This blend of physical and virtual presence ensured a diverse exchange of knowledge and expertise.

The presence of renowned international experts provided a valuable opportunity for local practitioners to learn from the best in the field. Topics ranged from innovative surgical techniques as robotic to the latest in prosthetic technology, catering to both seasoned professionals and those new to the field.

The conference halls remained bustling with activity until late in the evening, demonstrating the high level of interest and engagement from participants. Attendees were treated to a comprehensive program that covered the latest advancements and techniques in arthroplasty. Sessions included comprehensive lectures, hot debates, interactive discussions, and free paper presentations, all designed to enhance the skills and knowledge of the participants.

The success of the Pakistan Arthroplasty Conference underscored the country's increasing stature in the global arthroplasty community and the dedication of our surgical community to learn advancing techniques.

The event not only showcased significant progress in arthroplasty but also set the stage for future collaboration globally for training and fellowship oppurtunities. It highlighted Pakistan's commitment to staying at the forefront of art arthroplasty dvancements and fostering an environment for continuous learning and development.





Professor Syed Shahid Noor addressing a session



Prof Mj. G. (Rt) welcoming the delegates



Hall is full with audience even in the late hours



Very interactive discussion, Dr Kashif, PAS fellow and an arthroplasty surgeon involved in discussion



Professor Lewis PK Chan explaining the use of Robotics in arthroplasty



Professor Abu Bakar recieving life time achievement award on behalf of Professor G A Shah his mentor who established arthroplasty service in Punjab



Life time achievement award was given to Prof IH Jokhio for his perseverence in promoting arthropasty



Professor Abu Bakar recieving life time achievement award on behalf of Professor G A Shah his mentor who established arthroplasty service in Punjab



Professor M Umer has a pivotal role in establishing a successful Knee replacement service in karachi and for that he was awarded by Pakistan arthroplasty Society



Professor Mehmood Hafiz from Egypt recieving shield



Pakistan Arthroplasty Society (regd.)

Department of Orthopaedic, Building-K, 1st Floor, Liaquat National Hospital & Medical College, Stadium Road, Karachi 74800, Pakistan.

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