SIUT news

APRIL 2022

Robotic Surgery for the Masses

SIUT and Sindh Government established the first Center of excellence in Robotic Surgery and Training in Pakistan. The Center was inaugurated by Chief Minister of Sindh Syed Murad Ali Shah on the 12th February 2022. The Chief Minister while addressing SIUT faculty and staff praised SIUT's efforts and offered help to set up similar centers in other cities of Sindh.

Robotic-assisted surgery has been the top innovation in the field of surgery of this century. What makes Robotic surgery useful is its ability to take fine and precise actions under the command of a human surgeon. The small spaces in the body where the surgeon's hands cannot reach and eyes can't see are easily approached by the robotic arms. The benefits of Robotic Surgery will be overarching the fields of Urology, Colorectal, Hepatobiliary, Foregut Surgery and Gynaecological Surgery.

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Chief Minister Sindh Syed Murad Ali Shah inaugurating Centre of Excellence in Robotic Surgery with Dr Adib Rizvi.

Dua at the inauguration Ceremony Chief Minister Sindh Syed Murad Ali Shah, Prof. Adib Rizvi, Parliamentary Secretary of Health Qasim Siraj Soomro and other concerned professors and doctors at SIUT.

Consul General of Peoples Republic of China Visits SIUT

Professor Rizvi presenting bouquet to Mr. Li Bijian with Dr. Zafar Hussain and Mr. Abdul Khalique Jafrani

The Consul General of China, His Excellency Mr. Li Bijian visited SIUT on 5th March 2022. He met Prof. Adib Rizvi and SIUT team and went around different departments specially the newly set up Robotic Surgery Center. The visit was made possible courtesy Mr. Abdul Khalique Jafrani, a supporter of SIUT. Speaking on the occasion Prof. Rizvi thanked the Consul General and Government of China for their help given in infra structure development and the CPEC projects. Mr. Bijian addressing the faculty praised SIUT for its free services and showed his amazement as to how free services of dialysis and transplantation could be provided in a low resource country when such services are difficult even in China. He lauded the role played by Prof. Rizvi, Government of Sindh and the people of Pakistan for making such an incredible institution where all services are provided free of cost to all people. ■

RAMADAN MUBARAK TO ALL SIUT PATIENTS AND SUPPORTERS

Sindh Chief Minister Syed Murad Ali Shah addressed the inauguration ceremony of Pakistan's first Centre of Excellence in Robotic Surgery & Training established at SIUT.

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History of Robotic Surgery Department and Training Center at SIUT

The first robot was acquired by the Sindh Government in 2017 from Intuitive Surgical Company from the USA – The da Vinci System. SIUT embarked on its Robotic Surgical Program in 2017 in collaboration with Dr. Ruth Fau, Civil Hospital Karachi. To establish a Robotic Surgical Unit a fund was established where the initial seed money was given by the Sindh Government. The other main contributors were Mr. Bashir Dawood and SIUT North America.

Recently two robotic surgical units were acquired by SIUT from Cambridge Medical Robotics (CMR), The Versius system. This acquisition is part of the SIUT philosophy to remain at the cutting-edge of technology. The unit has started with urological surgeries, to be followed by colorectal and gynaecological surgeries.

Thus far more than 1000 Robotic Surgeries have been performed at the department. Robotic procedures are associated with less pain, less blood loss, and faster recovery. Patients are discharged within a few days and can resume regular activities. SIUT plans to set up a regional Robotic Surgical Training Center to train the next generation of surgeons in this state-of-the-art technology both from within Pakistan and the region.

Robotic-Assisted Surgery

Robotic-assisted surgery is an ideal form of surgery in small spaces such as the lower part of the human belly where several important organs are located. Here, the system is extremely useful to remove disease from prostate glands, urinary bladder and part of the bowel. Apart from this, robotic arms can be used to do any other operation in organs of the belly and chest. Surgeons are now also using this technology to operate within extremely narrow spaces in the human mouth and throat.

The precision of robotic technology is ideal for delicate and complex urologic surgeries. These include prostatectomies, in which the target site is tightly confined and surrounded by nerves affecting urinary control and erectile function. Surgeons using a robotic system have an exacting tool for avoiding damage to surrounding nerves and helping enhance recovery times and the return to normal activities. Robotic-assisted surgery provides similar benefits in children, including shorter recovery time and improved cosmesis. Common upper urinary tract disorders including ureteropelvic junction obstruction and obstructed upper pole moiety in a duplex kidney may be approached robotically. Complex reconstructions for congenital abnormalities of internal reproductive organs may also be managed with robotic surgery. Procedures include robotic pyeloplasty and ureteroureterostomy.

Most patients return to normal activity in 2-to-3 weeks instead of the 6-to-8 weeks common to standard open surgery. The benefit of Robotic Surgery is that many more patients can be treated reducing the waiting time as more and more patients come to SIUT from all over the province. ■

Benefits to the Patients by Robotic Surgery

- Significantly less pain
- Less blood loss
- Less risk of infection
- Less scarring
- Shorter hospital stay
- Quicker recovery time
- Better clinical outcomes in many cases

SIUT Sindh Institute of Urology and Transplantation

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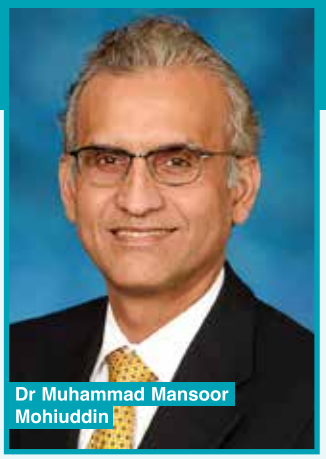
Community, Doctor, Patient, Government

SIUT's Concept: Community-Government Partnership

Dow Graduate Performs Landmark Xenotransplant — Animal Heart to Human Transplant.


Dr Muhammad Mansoor Mohiuddin

Dr. Muhammad Mansoor Mohiuddin a Dow Graduate of 1989 performed the World's first genetically modified pig Heart to Human Transplant in December 2021 at the University of Maryland USA. Dr. Mansoor is the Professor of Surgery and Director Cardiac Xenotransplantation Program at University of Maryland.

Dr. Mansoor has done extensive research in the field of Xenotransplantation, where his team genetically modified 10 genes to make Pigs Heart acceptable in Humans by different genetic techniques. SIUT was the first institution outside of the USA where Dr. Mohiuddin at the request of Prof. Rizvi recorded a one-hour Zoom Lecture for SIUT faculty. Dr. Mansoor explained his 30 years of research in Xenotransplantation from small animals to Pig Heart into Baboons. The live Zoom lecture was hosted by Dr. Aamir Jafarey of the Center of Biomedical Ethics and Culture (CBEC) SIUT. Dr. Mansoor was introduced by his dowite friend Dr. Muneer Amanullah who is Prof of Pediatric Cardiac Surgery at Liaquat National Hospital. The lecture was followed by a question and answer session with Prof. Rizvi and a panel of SIUT faculty including Prof. Farhat Moazam, Head (CBEC). Professor Mirza Naqi Zafar, Head of Research and Publication, Dr. Aiysha Abid, Center for Genetics and Dr. Wajiha Musharraf, Department of Immunology. This landmark transplant was done in a patient who would have died within days as he was not clinically fit to receive a regular transplant. Mr. David Bennett 57 years of age and family agreed to this Pig Heart Transplant and created history as the first step towards successful Xenotransplantation. Mr. Bennett survived whole two months after the Transplant and died on 9th March. Dr. Mansoor reported his death and thanked the family and FDA for their approval for this landmark operation.

Dr. Mohiuddin graduated from Dow Medical College in 1989. After his residency in Medicine and Surgery at Civil Hospital, he moved to USA and did a fellowship in Transplantation Biology and Immunology in 1993 from University of Pennsylvania Medical Center, later he did his fellowship in Transplant Surgery in 1998 from MCP-Hahnemann Medical School, Philadelphia and fellowship in Bone Marrow Transplantation in 1998. ■

Pakistan Army Officers Visit SIUT

A group of officers pursuing Masters in Healthcare Administration at the Armed Forces Postgraduate Medical Institute (AFPGMI) Rawalpindi visited SIUT on 8th February 2022. Thirty-three Senior Army Medical Corps Officers included a Major General, Brigadier, Colonels and Lieutenant Colonels in the delegation.

Prof. Adib Rizvi, Director SIUT, Prof. Anwar Naqvi and Prof. Zafar Hussain, highlighted the services provided to the patients free of cost with dignity. Visit of the officers to SIUT is a part of government policy and a regular feature to apprise them as how a medical care institution with public and community partnership is offering outstanding services of dialysis and transplants free with dignity.

The officials visited various departments and the tour was given by Dr. Wasim Khan, Mr. Liaquat Ali and Mr. Razi Ahmed of Media and Social Services Departments. The visiting officials highly appreciated the medical facilities offered to the patients at SIUT. ■

Pakistan Society of Anaesthesiologists Holds Pre-Congress Workshop in SIUT

A workshop on Mechanical Ventilation was held at SIUT on 9 March 2022. The workshop was attended by specialists in Critical Care, Operation Theater Technologists, Physicians and Nursing Staff. The workshop had lectures and hands-on practice. The workshop coordinator was Dr. Syed Muhammad Abbas from SIUT. The lectures included respiratory mechanics and failure, advanced mode of mechanical ventilation, PEEP optimization and mechanical ventilation in children. The main organizer from SIUT were Prof. Fauzia Ali, Prof. Qamar Abbas and Dr. Fakhir Raza. The workshop was attended by more than 100 participants. ■

SENATE PASSES (AMENDMENT) in Transplant Law to allow consent of potential donor on National Identity Card to be deceased organ donors.

The Upper House of parliament passed an amendment in Transplant Law (Bill 2021) on February 15 with the aim to set a requirement for the National Database and Registration Authority (NADRA) to display the consent of a potential donor on the National Identity Card to be a deceased organ donor. This will greatly facilitate Deceased Organ Transplantation in the country helping over 200,000 patients who die annually of end stage organ failure including Liver, Kidney, Heart and other organs.

According to the amendment at the time of registration for computerized CNIC, NADRA will ask people whether they want to donate their organs after death. An affirmative reply will add a red mark on the CNIC. The red mark will inform the family, hospital and authorities that the person had donated his or her organs after death. ■

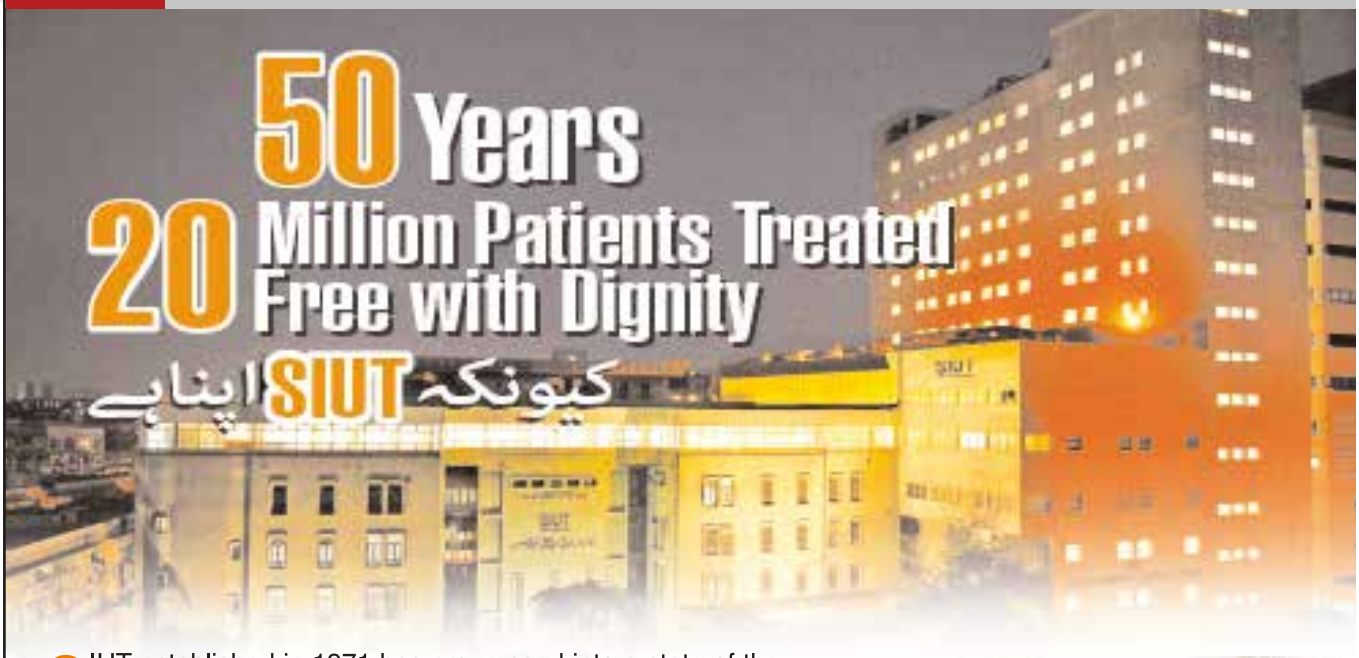
World Cancer Day

World Cancer Day is observed all over the world on February 4th. Cancer is the second leading causes of deaths globally. The prime aim to observe the Annual World Cancer Day is to create public awareness about the ailment of cancer and to highlight the preventive and curative side of the disease. Dr. Nargis Muzafar, Prof. of Medical Oncology gave a talk online throwing light on choosing healthy options like quitting tabacco, use of pan, gutka, chalia and alchohol. She identified other factors as environmental pollution, malnutrition, poor socio-economic conditions, obesity, hereditary factors and certain chemicals.

Patients and survivors suffering from different Cancers shared their success stories and the various phases of their treatment. They offered hope for the community at large by stating that with the advent of modern science and technological expertise and early interventions, cancer can be dealt with. ■

World Kidney Day

World Kidney Day was observed throughout the world including Pakistan on March 10. This year's theme was " Kidney health for all". SIUT like previous two years did not hold an open house where people are screened for Kidney Disease due to COVID 19 pandemic. SIUT took out a Supplement in Dawn to bring awareness about Kidney health. Dietary tips for preventing Kidney diseases were shared by SIUT Dietician Ms. Kehkashan Zehra who outlined Healthy lifestyle for healthy kidneys and tips for prevention of Kidney diseases. She also emphasized the importance of a balanced diet, quit smoking, be physically active, maintain a healthy weight and treat high blood pressure and diabetes. Various articles were written by SIUT faculty on Chronic Kidney Diseases (CKD): A neglected disease by Dr. Fazal Akhtar. Dr. Rubina Naqvi wrote about Kidney health for all. Dr. Nazarul Hassan Jafry shared his views on how to keep slim to help your kidney's healthy. SIUT also went on electronic media where Dr. Ali Lanewala gave a live talk on ARY News briefing about Kidney Health Awareness. World Kidney Day aims to raise awareness of the importance of our kidneys to our overall health and to reduce the frequency and impact of kidney disease and its associated health problems worldwide. ■



SIUT established in 1971 has progressed into a state of the art public sector, 1200 bedded healthcare system to provide all treatment free with dignity irrespective of cast, color, creed and religious beliefs and based on the model of community-government partnership.

Pioneer of kidney, liver and deceased organ transplant in the country.

Largest centre performed over 6500 kidney transplants with life time recipient and donor follow-up

The first centre of Excellence in Robotic Surgery and Training in Pakistan.

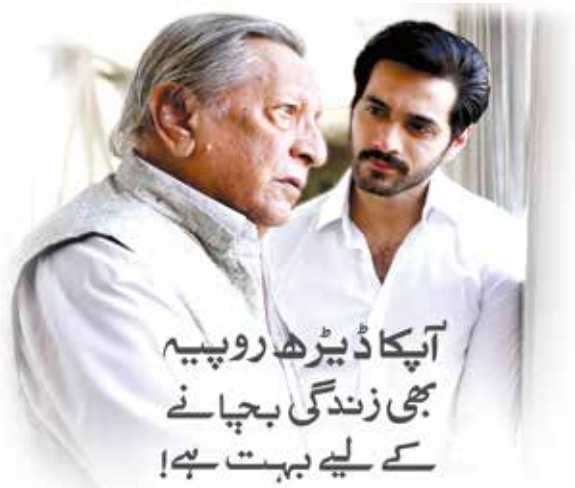
The only centre with 6 lithotriptors, treated over 75000 stone patients

Established first PET CT and Cyclotron centre in public Sector

The first dedicated urology cancer hospital in public sector with two radiotherapy machines.

Largest dialysis centre, performing around 4 lacs dialysis sessions yearly, catering 60% of the need of Sindh

The only centre of paediatric urology, nephrology and transplant of the country



Patient Statistics for the year 2021

410,969	Dialysis Sessions
426,328	OPD
150,025	Emergency Patients
109,863	Surgical procedures
61,000	Admissions
6,326	Lithotripsy Sessions
596,533	Radiology Tests
11,200,000	Lab Tests

SIUT PAKISTAN Sindh Institute of Urology and Transplantation

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