



SMBB INSTITUTE OF TRAUMA NEWSLETTER

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CONTENTS:

| | |
|--|----|
| ● Inauguration Ceremony of SMBBIT MRI Services by Minister Dr. Azra Fazal Pechuho..... | 03 |
| ● Complex Primary Total Hip Replacement with Prof. Dr. S. Shahid Noor..... | 04 |
| ● Dr. Syed Akmal Sultan - HoD Trauma Orthopedic Surgery..... | 04 |
| ● Successful Completion of Sindh Healthcare Commission Inspection..... | 05 |
| ● 2nd Venous Thromboembolism Workshop..... | 05 |
| ● Emergency Medicine Day by ER Department..... | 06 |
| ● Improving Patient Care, Together..... | 06 |
| ● A Case of Right Facial Necrotizing Fasciitis Due to An Infected Tooth..... | 07 |
| ● Giant Tumor Removed by OMFS..... | 07 |
| ● Monthly Meeting of Pakistan Association of Plastic Surgeon - Sindh Chapter..... | 07 |
| ● Bolton Market Bomb Blast..... | 08 |
| ● Fire & Safety Gap Assessment..... | 08 |
| ● Interactive Workshops on Critical Care & Acute Blood Loss..... | 08 |
| ● Relief Medical Camp for Flood Affectees by SMBBIT..... | 09 |
| ● Inauguration of the Neurosurgery Operation Theatre by Senator. Shahadat Awan..... | 09 |
| ● City Police Chief Javed Odho Visited Trauma Center..... | 10 |
| ● Celebrating Independence Day..... | 10 |
| ● Research Ethics Workshop..... | 10 |
| ● SMBBIT Orthopedics Brings AO Trauma to Pakistan After 12 Years..... | 11 |
| ● TOACS Course for MCPS Family Medicine..... | 11 |
| ● European Society of Emergency Medicine Recognized SMBBIT..... | 11 |

Inauguration Ceremony of SMBBIT MRI Services by Minister Dr. Azra Fazal Pechuho



The SMBBIT inaugurated the commencement of MRI Services at its Department of Diagnostic Radiology on 28th June 2022 in the presence of the Honorable Minister of Health & Population Welfare Government of Sindh, Dr. Azra Fazal Pechuho.

The inauguration ceremony also marked the successful completion of 5 years for the SMBBIT, and was therefore attended by all the Head of Departments with the presence of Dr. Sabir Memon (CEO SMBBIT), Medical Superintendent Dr. Ruth K.M. Pfau Civil Hospital, Dr. Saeed Quraishy (Vice Chancellor DUHS) and Dr. Amjad Siraj Memon (Vice Chancellor JSMU).

Brief walkthroughs over the origins and five year history of the Trauma Center as well as the contributions of its various departments to the public health sector were followed by addresses by the CEO

SMBBIT, Dr. Sabir Memon and finally Dr. Azra Pechuho herself, who also happens to be on the board of governors for the SMBBIT.

The event was concluded over Hi-Tea and a media press release by Dr. Azra Pechuho on the services offered by the SMBBIT under government of Sindh.



Complex Primary Total Hip Replacement with Prof. Dr. S. Shahid Noor

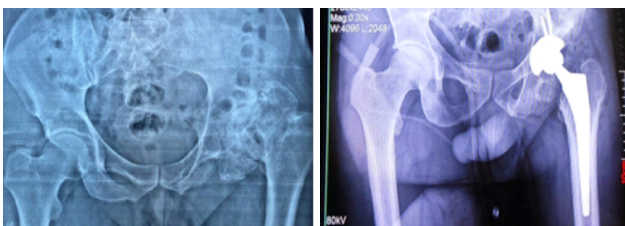
A 46 yrs old gentleman was seen by the trauma orthopedic surgery department with complaints of pain in the left hip on moving and weight bearing. He had a history of a left hip injury 30 years back. He had been operated on with canulated hip screws at that time with the screws being removed one and a half year after the surgical procedure.



Mr. M. Rafiq, Prof. Dr. S. Shahid Noor, Dr. M. Zoha Farooq, Dr. S. Akmal Sultan

He had progressive limping, stiffness of the left hip and shortening of the left lower leg. He unfortunately had a fall 2 months prior to presenting to our department and was unable to put any weight on his left lower limb. On examination, he had 3 inches supra-trochanteric shortening of his left lower limb with 60 degrees' flexion the only movement possible.

He had full range of motion at knee. His x-rays and CT Scan of the Hip were done and showed an ankylosed hip with a subluxated and deformed hip joint.

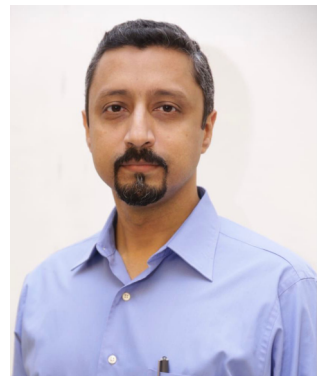


After his workup was completed, he underwent a Complex Primary Hip replacement. State-of-the-art complex primary hip implants were specially arranged for the patient. Due to the intricate nature of the surgery, the renowned orthopedic surgeon Prof Syed Shahid Noor graciously offered his expertise for this procedure. As a gesture of goodwill, Mr. M Rafique, the owner of AM Distributors and supplier of disposable drapes provided us with the extra packs of disposable drape sets and in addition installed 5 air purifier machines in the operation theatre temporarily for this particular procedure.

The procedure was carried out successfully and the patient had an uneventful recovery. He was mobilized out of bed the very next day and full weight bearing walking was started at two weeks when he walked normally into the OPD with just a single crutch for removal of his stitches. This first of its kind surgery at SMBB-IT was possible because of the close coordination of the administration and the clinical teams for a patient who could not carry out his activity of daily living anymore while being a bread earner and was unable to bear the cost of this expensive surgery.

Dr. Syed Akmal Sultan HoD Trauma Orthopedic Surgery

Dr. Syed Akmal Sultan is our Head of Trauma Orthopedic Surgery (TOS). He has been with the TOS since January 2018 as consultant. He is a 1999 graduate of Dow Medical College. He has extensive national & international experience.



He had done his MRCS (Ireland) and also had the intercollegiate CCBST before doing his FCPS (Orth.). He has worked at SIUT, Dr. K M Ruth Pfau Civil Hospital Karachi, Liaquat National Hospital, Indus Hospital, Ghurki Trust Teaching Hospital Lahore, Combined Military Hospital Rawalpindi. Internationally he has worked at Walsall Manor Hospital, Walsall NHS Healthcare, Stoke Mandeville Hospital, Buckinghamshire Healthcare NHS Trust with its associated regional National Spine Injury Centre.

In addition, he has a vast administrative experience and has worked from being the chief resident during training to being the conference coordinator of the annual orthopedic international conference held in Pakistan, and organizing different workshops on local and international platforms.

He has a special interest in trauma, spine and reconstructive surgery.

Dr. Akmal Sultan has a lot of diversified working experience in administrative management too. He is providing true leadership to the department.

Successful Completion of Sindh Healthcare Commission Inspection

Shaheed Mohtarma Benazir Bhutto Institute of Trauma Karachi Receives Provisional Licensure in 2022.

The Inspection team of Sindh Healthcare Commission visited SMBBIT Institute of Trauma Karachi from March 28th to March 30th 2022 to ensure clinical practices and hospital services were in accordance with national and international healthcare quality standards. The inspection team of Sindh Healthcare Commission comprised of eight doctors which included four Deputy Directors of Licensing and four experts.



The inspection team performed observational audits of different departments and checked the performance of departments on the basis of standards, this team also reviewed official documentation. Departments involved in patient care, either directly or indirectly, were given priority and the auditors spent majority of their time in patient-care wards including critical care units. During the audit, nursing staff and doctors were asked about their SOPs and given recommendations for improvement along the way. Policies and procedures of support services such as Infection Control, Housekeeping and Nutrition & Food Services were also reviewed.



At the end of the 3-day audit, the Inspection team of Sindh Healthcare Commission discussed their findings with Hospital Administration. Overall, they were pleased with the hospital's current state and stated that "SMBBIT has very dedicated team and this was one of the best public sector hospitals they have visited."

2nd Venous Thromboembolism Workshop



A live DVT mechanical thrombectomy was carried out by the SMBBIT Department of Interventional Radiology in collaboration with the Department of Vascular & Endovascular Surgery. The chief guest was Prof. Dr. Suat Doganci, MD from the Gulhane School of Medicine in Ankara Turkey.

The event was a great success with impressive performances and collaboration by the SMBBIT departments and with the gracious involvement of Dr. Suat, who was an excellent academician and clinician to observe and learn from.



SMBBIT is 'state-of-the-art', 500 bedded Level 1 Trauma Center. It provides free of cost surgical management of for every aspect of injury.

Emergency Medicine Day by ER Department



Emergency department of SMBBIT celebrated 'Emergency medicine day' on 27th May 2022. The event was hosted by Dr Azer Shaikh (HOD & Consultant EM) with the help of ER & Admin team and supported by Dr Sabir Memon.

Guest speakers were invited who were working in EM at Agha Khan university hospital, Indus hospital, Zia uddin university hospital and south city hospital, Karachi.

Targeted audience: Medical students, junior doctors, PGs and nursing staff.



Purpose: 27 May is introduced as the Emergency Medicine Day and promoted by the European Society of EM (EUSEM) globally. The aim of this day is to unite the world population and decision makers to think and talk about emergency medicine and emergency medical care.

Mission: Emergency medical care is better performed by competent professional team trained in emergency medicine and acute care and working in organized hospitals and systems dedicated to emergency medical care.

Field of action: Rapid and competent first response to

life threatening conditions like: cardiac arrest, stroke, heart attack, trauma, respiratory failure, bleeding and sepsis.

Efficient and quality response to all other urgent and emergency situation. An organized reaction, response and prevention to disasters and humanitarian crisis.

Improving Patient Care, Together

A meeting was held on 14th October, 2022 at the SMBB Institute of Trauma regarding the betterment of patient care and coordination between the SMBB Institute of Trauma & Jinnah Postgraduate Medical Centre (JPMC), Karachi.

The meeting was attended by Dr. Muhammad Sabir Memon (Chief Operating Officer, SMBBIT) along with his E.R Team with Dr. Shahid Rasul (Executive Director, JPMC). The Director Health, Dr. Abdul Hameed Jumani, was also present at the meeting.



SMBBIT handles 400 critical cases daily, i.e., a new case after every 4 minutes.

To manage this SMBBIT has:
116 Emergency Beds,
71 ICU & HDU Beds,
18 Operating Rooms,
and
Medical imaging, Laboratory and pharmacy.

A Case of Right Facial Necrotizing Fasciitis Due to An Infected Tooth

This was a young pregnant female patient from main Karachi city, presented with history of tooth extraction, done at some public sector teaching Dental institute in Karachi where she was not given adequate pre and postoperative care. She developed complications with spreading Infection, pus discharge and early necrosis of facial skin/ neck. She was deferred by many leading institutes in Karachi without any relief & finally presented to us in a critical state. She was anemic, hemodynamically unstable, pregnant and weak. After baseline tests and with consultation with Obstetrics and Infectious Diseases Department, suitable antibiotics given.



Following blood transfusions, we did aggressive incision-drainage, debridement/ removal of all necrotic tissues under general anaesthesia. This is another successful case of collaborative team effort. She not only survived but also delivered a baby girl. She and her family were so overwhelmed that, they named her 'Benazir!'. During Covid pandemic, SMBBIT had received a large number of patients with Cervical Necrotising Fasciitis.



Giant Tumor Removed by OMFS

The Oral and Maxillofacial Surgery Department of SMBBIT, under its HoD - Dr. Shahjehan Katpar, carried out a successful surgical removal of a giant Mandibular Ameloblastoma during December, 2022. Dr. Yousaf Memon and the Interventional Radiology team contributed their efforts with the embolization. The patient recovered well, without any complications.



Monthly Meeting of Pakistan Association of Plastic Surgeon Sindh Chapter

Our newly established Department of Plastic Surgery SMBBIT hosted the Monthly Meeting of Pakistan Association of Plastic Surgeon Sindh Chapter for the first time. The meeting was attended by plastic surgeons and postgraduate trainees from all over Sindh. The purpose of the meeting was to present interesting cases and facilitate the learning of the trainees.



SMBBIT Clinical Departments:

Accident & Emergency, Neurosurgery, Orthopaedics, Vascular Surgery, Interventional Radiology, Ophthalmology, Infectious Diseases, Anaesthesia & ICU, Operation Theatre, Diagnostic Radiology, Oral & Maxillofacial Surgery, Thoracic Surgery and Plastic Surgery.

Bolton Market Bomb Blast

An explosion in the densely populated Bolton Market in Karachi's Kharadar area during May 2022. Several people were injured and one was killed. Motorcycles and automobiles, including a police vehicle, suffered damage as people tried to put out police vehicles and tried to extinguish account for the explosion's cause, which caused the blast. Motorcycles and automobiles, including police vehicles were damaged; people even tried to extinguish the fire, themselves. Police and rescue officials quickly reached the spot to help the injured and started investigating the cause of the explosion. According to the police, the blast was caused by an improvised explosive device.

The injured were quickly moved to the SMBBIT Emergency where they were promptly attended. The Karachi Administrator, Murtaza Wahab, also visited the SMBB Institute of Trauma to meet the injured people. The number of critically injured people increased to eleven and all of them were managed by SMBBIT.



Fire & Safety Gap Assessment

The Fire and Safety Department has planned a systematic gap assessment of all the on board staff (Morning, Evening, and Night shifts) on the basics of fire & safety and emergency evacuation procedure knowledge.

The first round of assessments started from the 15th Floor downwards. Classes are planned to be held during two days of the week with pre and post-training staff assessments with on the spot and classroom training.

An excellent initiative in which everyone coordinated with the fire and safety team to make SMBBIT a safe and sound working place in all the disaster and hazard situations.

Interactive Workshops on Critical Care & Acute Blood Loss

Two day interactive workshops, on the 28th and 29th of December 2022 were conducted at the SMBBIT by visiting consultants from the United States. The first day was on 'Basic Concepts of Critical Care' by Dr. Sajid Mehmood (ABIM Certified- Critical Care Medicine & Fellow of the American College of Chest Physicians), 'Management of Acute Blood Loss' workshop by Dr. Abdul Mustajeeb Haseeb (Asst. Prof. University of California, San Francisco & Medical Oncology- Hematology Fellow at St. Louis University, Missouri), was on the day following it. Both workshops were attended by all clinical HoDs and staff members with great interest.



Basic Concepts of Critical Care' by Dr. Sajid Mehmood



'Management of Acute Blood Loss' by Dr. Mustajeeb

| SMBBIT PERFORMANCE | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | TOTAL |
|----------------------------------|---------|---------|---------|---------|---------|---------|-----------|
| Surgical Procedures | 10,278 | 12,403 | 13,885 | 9,718 | 11,945 | 13,093 | 71,322 |
| No. of Laboratory Test performed | 274,281 | 419,335 | 508,801 | 476,443 | 492,118 | 577,819 | 2,748,797 |
| Diagnostic Radiology | 125,978 | 166,252 | 183,732 | 151,490 | 175,387 | 193,427 | 996,266 |

Surgical Procedures, Laboratory Tests and Diagnostic Radiology Done During Last Six Years.

Relief Medical Camp for Flood Affectees by SMBBIT



SMBBIT arranged medical relief camps for flood affectees in three different districts of Sindh. Free of cost medical facilities were provided at Taluka Headquarter Hospital Jhuddo in district Mirpurkhas, Dulha Darya Khan Bridge in district Thatta and K.N SHAH in district Dadu on the instructions of the Minister Health and Chairperson Board of Governors SMBBIT Sindh.

A multimodality team of 28 medics, paramedics and supportive staff with COO Dr. Sabir Memon were present at the camp and treated more than 400 patients of different medical issues, Ultrasound, ECG, blood sugar test facility also available at the camp. All kinds of medicines and surgical supplies provided to the patients were free of cost.



Inauguration of the Neurosurgery Operation Theatre by Senator. Shahadat Awan

Considering the influx of patients devoted to Neurosurgery related trauma and concerns, an operation theatre devoted entirely to the neurosurgery department was made functional on its floor.

The inauguration ceremony was officiated by Senator. Shahadat Awan, and was held during December, 2022 at the 11th Floor, Neurosurgery Department, at the SMBBIT.



SMBBIT had treated more than 630,000 other surgical cases since its inception.

Last year alone SMBBIT had successfully managed over 135,000 such cases.

City Police Chief Javed Odho Visited Trauma Center

The City Police Chief Javed Odho and Additional IGP visited SMBBIT in August to show their support to victims of the grenade blast inside Karachi police headquarters. The injured were brought to the SMBBIT ER in critical condition and were immediately taken under treatment.



Celebrating Independence Day

As part of its annual tradition the SMBBIT celebrated the 75th independence day of Pakistan, with a flag hoisting and cake cutting ceremony led by Dr. Sabir Memon (COO - SMBBIT).



Research Ethics Workshop

A 2-day Research Ethics Workshop from 30th Nov- 1st Dec, 2022 was conducted by the department of Research and Development of SMBB Institute of Trauma in collaboration with the Center of Biomedical Ethics and Culture (CBEC), SIUT at the seminar room of the SMBB Institute of Trauma.



Average Daily Emergencies ranges between 300 to 380 but last year SMBBIT has served an increase of over 20% emergencies everyday.

There has been over 50% increase in admissions in different departments of SMBBIT during last two years.

SMBBIT Orthopedics Brings AO Trauma to Pakistan After 12 Years

The Trauma Orthopaedic Surgery department under its HoD Dr. Akmal Sultan, conducted a 6 module series of workshops on the official platform of the AO Foundation. The AO Foundation is an international organization with network of surgeons specializing in treatment of trauma and musculoskeletal disorders. The focus of the ORPs was the proper and standardized education and training of our OT techs.



The participants were SMBBIT orthopedic operation theater staff and OMFS operation theatre staff. 4 orthopedic operation theatre personnel from Civil Hospital were also included in the trainings as a goodwill gesture. The faculty was all in-house and developed here in the presence of 2 external observers and representatives of AO Trauma. The first 2 modules were held on 31st July, modules 3 & 4 on 25th September and modules 5 & 6 on 4th December 2022. With the exception of the first two modules which were held at the Avari Hotel, all the ensuing trainings were carried out on-site at the SMBBIT.

These workshops are highly acclaimed globally and have a standard format and presentation. On arrangement, none of our participants were required to pay for anything. Modules 3 & 4 have also been approved by the foundation and will be held soon. These courses were conducted in Pakistan after a gap of 12 years, and therefore it is a big moment for the SMBBIT to be on the global radar for educational activities in partnership with such organizations.

**SMBBIT has treated more than
170,000
Road Traffic Accidents (RTA) since 2016.
Last year alone had over 29,000 RTA Cases**

TOACS Course for MCPS Family Medicine

Keeping true to its values as a research and teaching institute, the SMBBIT conducted a Task-Oriented Assessment of Clinical Skills (TOACS) course to facilitate candidates sitting their MCPS Family Medicine examination. The course was conducted by Prof. Dr. Syed Nasir Shah at the SMBBIT seminar hall during June, and was attended by several interested examinees.



European Society of Emergency Medicine Recognized SMBBIT

Shaheed Mohtarma Benazir Bhutto is recognized as being the largest and only trauma center in Pakistan by the European society of Emergency Medicine and its logo has been added to the European society of Emergency Medicine for being one of its supporters.





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