

SMBB INSTITUTE OF TRAUMA NEWSLETTER

September 2016 – December 2021



Vol. I, Issue # 1

فطرت کو خرد کے روبرو
تسخیر مقام رنگ و بو کر

تو اپنی خودی کو کھو چکا ہے
کھوئی ہوئی شے کی جستجو کر

تاروں کی فضا ہے بیکرا نہ
تو بھی یہ مقام آرزو کر

عریاں ہیں ترے چمن کی حوریں
چاک گل و لالہ کو رفو کر

بے ذوق نہیں اگرچہ فطرت
جو اس سے نہ ہو سکا وہ تو کر

(علامہ اقبال)

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Chief Minister of Sindh
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Chief Operating Officer
SMBB Institute of Trauma
Secretary of BoG, SMBBIT



Mr. Faisal Edhi
Member of BoG, SMBBIT



Message by Chief Minister

I feel a great sense of pride knowing that the Shaheed Mohtarma Benazir Bhutto Institute of Trauma has successfully completed five years of service. I extend my warmest felicitations to its administration and entire team for their unfailing efforts to provide the people of Sindh & beyond with exemplary trauma care.

The SMBB Trauma Centre has proved that its services are not limited to quintessential trauma management alone; it has

done a wonderful job in leading the way in patient care during the uncertainty of the global COVID-19 pandemic. This was a time when other health care facilities, particularly in the private sector, were reluctant to offer a complete range of treatment options to its patients due to limited resources and capacity, yet the SMBBIT played its part fully, and that too free of cost.

Rolling out this newsletter is a commendable effort to highlight the services offered at the Trauma Centre and to bring it to the fore, in the public eye.

I see a bright future for the SMBBIT and firmly believe that it shall continue to improve its level of trauma care, with further innovation and renewed expertise in its services.

Murad Ali Shah

Syed Murad Ali Shah
Chief Minister, Sindh
Patron of SMBBIT



Message from Minister of Health

Many congratulations to the Shaheed Mohtarma Benazir Bhutto Institute of Trauma (SMBBIT) for publishing the first issue of its official newsletter.

This literary endeavour will be a window through which onlookers shall be proffered a collaged glimpse of the SMBBIT: its services, achievements, and progress, charted since its inception.

The Health Department of the Government of Sindh has long worked to strengthen and improve the healthcare delivery mechanism within the province. The establishment of the SMBB Institute of Trauma is part of a multi-fold strategy towards the provision of quality and equitable healthcare to the populace, and it has proved to be a worthwhile and result-oriented project.

By offering free, yet standardized treatment the Trauma Centre has managed to change the generally negative consensus that usually surrounds government healthcare facilities.

Its pivotal role during the COVID-19 global pandemic has been lauded nationwide. The quick and efficient Covid-19 ICU & HDU set-ups for the affected treated hundreds of patients during that time of crisis, with SMBBIT staff working round-the-clock under the supervision of a qualified and well-equipped team to battle this life-threatening virus.

It goes without saying that the Government Health Sector must continue to further develop itself through similar projects like the SMBBIT, which are an institutional and social asset. This newsletter will go a long way in fortifying governmental resolve to expand its project scope by disseminating constructive information to all partners in the healthcare sector.

I offer my best wishes to the SMBBIT team for completing this five year milestone and for commemorating the occasion with the issuance of this newsletter.

Azra Fazal Pechuho

Dr. Azra Fazal Pechuho

Minister of Health & Population Welfare, Govt. of Sindh
Chairperson of Board of Governors, SMBBIT



Message from Secretary of Health

I am pleased to extend my profound greetings to the readers of the first issue of the Shaheed Mohtarma Benazir Bhutto Institute of Trauma newsletter. Healthcare systems, public and private alike, are continually challenged by rising costs, inequality in access, and persistent quality issues. With an ever-growing population, healthcare providers are confronted with a considerable number of difficulties emerging from inefficient processes, inconsistent outcomes, significant delays, unsatisfied patients, and last but not the

least an unreasonable and inadequate working model.

The Government of Sindh has attempted to address these issues through the establishment of the SMBB Institute of Trauma, in the heart of the Karachi metropolis. This level I category emergency healthcare facility is the first of its kind in Pakistan.

The team of this Institute has proven its mettle during these five years by treating thousands of patients and saving limbs and lives. It is a powerful and workable model in the provision of timely emergency care.

However, the SMBBIT has not restricted itself to the traditional role of trauma, the organization continue to pour its best during the initial wave of the COVID-19 global pandemic and stood hand in hand with the Government of Sindh during those trying times.

The government is determined to provide standardized and equitable health care facilities to its people, and similar trauma centres should be set up in other districts of Sindh, in the near future.

I praise the determination of everyone involved with the SMBBIT and wish it achieves all the best as it sets out to accomplish even greater milestones in Pakistan's healthcare delivery system.

A handwritten signature in black ink, reading 'Zulfiqar Ali Shah'.

Mr. Zulfiqar Ali Shah
Secretary of Health Welfare, GoS
Chairperson of BoG, SMBBIT



Message from Vice Chancellor (DUHS)

I am very happy to pen this message during this ongoing Pandemic when the whole world, especially the health sector, stands united to address the fight to overcome this life-threatening virus.

I need not elaborate on the economic, social and emotional restraints that this has placed on the higher education and health sector. These are the times when doctors, paramedics, researchers and pharmaceuticals have participated in finding innovative solutions to unforeseen scenarios, which may be exemplified by the ongoing Covid-19 pandemic.

I am proud to see that our institutions have risen to the challenge, including the Shaheed Mohtarma Benazir Bhutto Institute of Trauma with its state of the art emergency services. The SMBB Institute of Trauma has addressed the significant challenge of providing accident and trauma care in the country, of which there is a much needed lack within the health system.

As the vice chancellor of the largest Health Sciences university of Pakistan, I am proud to be associated with the SMBB Institute of Trauma. I congratulate its team on publishing their first newsletter, which will add value to the citizens of this community and beyond.

A handwritten signature in black ink, reading "Saeed Quraishy".

Prof. Dr. Saeed Quraishy

Vice Chancellor, Dow University of Health Sciences (DUHS)

Board of Governors, SMBBIT

Message from Chief Operating Officer



The Shaheed Mohtarma Benazir Bhutto (SMBB) Institute of Trauma, a vibrant flagship project of the Sindh Government, recently completed five years of its successful operations in September 2021. Since its inception, the institute has served and saved the lives of the people of Sindh, and other provinces free of cost.

About a year ago, I assumed the position of Chief Operating Officer (COO) of this institute. I am well-aware of the history of

this organization in providing accessible, devoted, and state-of-the-art individual care to its patients. I intend on maintaining and further enhancing its reputation as a centre of excellence in patient as well as, employee care.

For the future, the SMBB Institute of Trauma hopes to be the hub of trauma management and training, through the establishment of Level II, III & IV trauma care and management points in focused areas. In this regard, we are moving towards securing an accreditation from the Joint Commission International (JCI).

At this place, we honor individuals over all else. We have prepared ourselves to meet any challenge that the future may hold, and last year with the spread of the Covid-19 pandemic we were truly able to test and push ourselves to the limit.

I appreciate the dedication of all team members and healthcare workers of the institute who worked through this global pandemic, and saved hundreds of critically ill Covid-19 patients.

These past years have been nothing short of a tremendous journey, and as the COO of the institute it gives me great pleasure to commemorate this landmark occasion with the publication of our first newsletter. I hope this novel effort will help shed light on our vision, mission, accomplishments and long-term goals.

A handwritten signature in black ink, reading "M. Sabir Memon".

Dr. Muhammad Sabir Memon
Chief Operating Officer, SMBBIT
Secretary of Board of Governors, SMBBIT

Shaheed Mohtarma Benazir Bhutto Institute of Trauma

“ VISION

"We aspire to be Southeast Asia's primary Level-I specialized healthcare facility, providing timely emergency care and trauma management with a patient-centered focus."

“ MISSION

"To provide free of cost treatment to traumatically injured patients through specially trained medical personnel with a focus on providing complete care to patients from prevention to rehabilitation."



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شہید محترمہ
بینظیر بھٹو
انسٹیٹیوٹ آف ٹراؤما



SHAHEED MOHTARMA
BENAZIR BHUTTO
INSTITUTE OF
TRAUMA KARACHI

ROOF PLAN

Building Management System, IT

ROOF PLAN

Research & Development, Library

THIRTEENTH FLOOR

Executive Secretariat, HR, Procurement, Accounts & Finance,
Laundry & AHU

TWELFTH FLOOR

Trauma Orthopedics, Oral and Maxillofacial,
General Administration, QIC, I.V Dilution

ELEVENTH FLOOR

Operation Theatre,
Neurosurgery HDU, Ward I and Ward II

TENTH FLOOR

Vascular Surgery, CT scan, Cathlab,
Cardiac & Thoracic Surgery, Interventional Radiology

NINTH FLOOR

Eye Operation Theatre, Eye Recovery, Eye Ward, Pharmacy

EIGHTH FLOOR

Burns ICU, HDU, Operation Theater, Dressing Room,
Washing Room (Opening Soon)

SEVENTH FLOOR

HDU Ward, HDU Ventilation, Emergency Ventilation,
Emergency ICU, COVID ICU & HDU Ward, Pharmacy

SIXTH FLOOR

Operation Theater

Neurosurgery, Open Heart, Maxillofacial, Vascular Surgery,
Thoracic Surgery, Orthopedic, General Surgery, Recovery

FIFTH FLOOR

Parking Floor, CSSD, Fire & Safety, Bio Medical, Waste Management,
Cylinder Storage, Blood Bank

FOURTH FLOOR

Parking Floor, HVAC Department

THIRD FLOOR

Parking Floor, Civil & Plumbing

SECOND FLOOR

Parking Floor, Electrical Department

FIRST FLOOR

Trauma Bay-I, Ventilation Bay, SAU, Dental Assessment, Canteen, Laboratory

GROUND FLOOR

Triage Area, Clinical & Examination, Major Trauma Re-escalation / CPR, Trauma Bay-II, Isolation Room, X-Ray, Ultrasound, MRI, Pharmacy

BASEMENT

Mortuary/ Dead Body Viewing Area, Store, Warehouse

Table of Contents

| | |
|----|---------------------------------------|
| 01 | Board of Governors |
| 02 | Founders' Messages |
| 08 | Our Editorial Team |
| 14 | Leading Light in Trauma Management |
| 15 | Right Care at The Right Time |
| 16 | What Sets Us Apart |
| 28 | Department of Research & Development |
| 32 | Department of Emergency |
| 34 | Department of Anesthesiology & ICU |
| 36 | Operation Theatre |
| 38 | Department of Orthopedic Trauma |
| 39 | Department of Neurosurgery |
| 40 | Department of Vascular Surgery |
| 41 | Department of OMFs |
| 42 | Department of Cardiac Surgery |
| 43 | Department of Thoracic Surgery |
| 44 | Department of Ophthalmology |
| 45 | Department of Infectious Diseases |
| 47 | Department of Diagnostic Radiology |
| 48 | Department of Nursing |
| 49 | Department of Nutrition & Dietetics |
| 50 | Department of Clinical Psychology |
| 51 | Department of Physiotherapy |
| 52 | Department of Pharmaceutical Services |
| 55 | Department of General Administration |
| 56 | Department of Quality Control |
| 57 | Upcoming Plans |
| 58 | Support Teams |
| 61 | Patient Satisfaction |



Clinical & Surgical Facilities



Triage



Bay-I



Bay-II



Ventilation Bay



Minor Procedures and POP



Major Trauma



Ophthalmology



Neurosurgery



Oral & Maxillofacial Surgery



Trauma Orthopedics



COVID-19 ICU



Intensive Care Unit



Interventional Radiology



Operation Theatre



Vascular Surgery



Cardiac Surgery



Thoracic Surgery



Infectious Diseases

Allied Medical & Diagnostic Facilities



Nursing



Pharmacy



IV Dilution



Laboratory



Clinical Psychology



Physical Therapy and
Rehabilitation (DPTR)



Diagnostic Radiology



Nutrition and Dietetics

A Leading Light in Trauma Management

In Pakistan, trauma is a major cause of disease and disability, with the majority of affectees hailing from the younger strata of the populace.

The circumstances in Sindh are indeed more awful, as Karachi's, its provincial capital and the 2nd largest city in Pakistan, overextended healthcare facilities are incapable of managing the numbers of casualties witnessed daily.



Pakistan People's Party Chairman Bilawal Bhutto Zardari inaugurated the SMBBIT on December 23rd, 2015

An ever-growing metropolis with a staggering 47.9 million population, the city's trauma cases are on a rise due to expanding traffic and consequent road traffic accidents as well as a steep crime rate, which is fuelled by social and geopolitical factors.

Bearing this in mind, the Sindh Government with the Pakistan People's Party (PPP) chairperson, Bilawal Bhutto Zardari, marked the groundbreaking ceremony of the Shaheed Mohtarma Benazir Bhutto Institute of Trauma (SMBBIT) on December 23rd, 2015.

The young leader was also the chief guest on the Institute's inauguration on September 26th, 2016.

Built at a cost of Rs. 6 billion, the SMBBIT was conceived as a six-storey building, but its construction plans were amended to extend it to fourteen floors. This addition in the plan also featured a helipad to safely transport the injured from the accident site to the hospital, following the standard of trauma centres globally. At present, all the departments of the SMBBIT, except the Plastic Surgery and Burns Unit, are fully operational, while the said departments will also become operational soon. Affiliated with the Dow University of Health Sciences (DUHS), the trauma centre was upgraded to the level of an Institute on February 14th, 2019 as except for the Orthopedic Trauma and Emergency Medicine, all departments are accredited from the College of Physicians and Surgeons of Pakistan (CPSP) for FCPS training since May 16th, 2019.

Right Care at the Right Time

In trauma care management, time is of essence in saving the patient's life. Managing and making the most of the 'Golden Hour' –what the immediate period post-trauma and on the patient's admission to the ER is often referred to– is pivotal in defining the patient's prognosis. It is a make or break moment, and the right care at the right time makes a wealth of a difference.

When it comes to critical care in trauma management, even in the most top-notch private hospitals of Pakistan with 5-star management and charges, the non-availability of ventilators becomes a major issue, risking the lives of patients in need.

However; at the SMBBIT, timely triage, instant landing towards major trauma for resuscitation, in-house coverage of all relevant specialties (15 functional operation theatres), availability of life saving equipment (58 ventilators, with an equipped ICU & HDU facility), and 24/7 presence of trained staff are all factors that help avail the golden hour after injury.

This makes a difference not only in critical care, but also in the lives of patients, their families, and ultimately plays an important role in keeping our mortality and morbidity rates as low as they are.

We treat more than 1300 critical care patients every year, and operate on 12,000 patients annually, all of whom are first channeled through our ER department and efficient triage system. Despite the numbers, our low death rate speaks for itself in terms of our time and efficacy.



**633, 568 +
Patient Treated by
Emergency Department**

**2,171,932 +
Diagnostic Lab Tests**

**711,599 +
Radiology Procedures**

**141,855 +
Patient Admitted**

**54,525 +
Surgeries performed**

**1470 +
Covid -19 Patients Treated**

**4,456
Patients died**



What Sets Us Apart

Pioneers in Providing Specialized Care in the Public Sector



The SMBB Institute of Trauma was the first to start the **Departments of Vascular Surgery & Interventional Radiology** in any public sector hospital in Sindh and Baluchistan. Thousands of patients have been treated by both the departments so far, with less than 1% mortality rate.

First Public Hospital in Sindh with a Sterile IV Admixture Department



Another feather in SMBBIT's cap was the inauguration of its Sterile IV Admixture department, which is a one of a kind initiative by a public sector hospital in Sindh. This is an important addition to the Institute because it prevents the occurrence of adverse events and reactions resulting from erroneous medication preparation, and is also a cost-effective and standardized clinical practice.

Minimally Invasive Surgeries at the SMBBIT Cathlab



The department of interventional radiology is increasingly prepared to provide prompt, efficient, and high-quality service.

50% of trauma-related injuries can be treated using minimally invasive as well as, time and resource efficient surgical procedures. Usually such procedures are expensive and available only in private hospital settings; however, the SMBBIT Cath Lab has out done itself in its performance since its inception.

The ability to treat a commonly occurring, yet life-threatening hemorrhage with transcatheter embolization has spared countless patients the morbidity of surgery. Advances in cross-sectional imaging and an increasing understanding of patient profiles that best benefit from embolization, are continually refining the role of the department.

As the applications of transcatheter therapy broaden, we hope to include unstable patients, such as those with solid organ and major arterial injuries, on our list of minimally invasive embolization and endovascular repair processes offered at the cathlab.

A MoU was also signed recently between the SMBBIT and the Patient Aid Foundation to provide an **Angiography machine** to the centre. Soon, the Institute shall also be offering angiography procedures to its patients, completely free of cost.

On March 2021, a patient came in the ER with major poly-trauma and multiple bleeders in the pelvis. The department of interventional radiology immediately managed the patient, and was able to successfully coil up the bleeders.

The patient was subsequently moved to the ICU than stepped down to the HDU, then the ward, and eventually discharged home.



Prompt Covid-19 Response



During the Covid-19 pandemic, when on-going medical expenses left many people deep in debt, as per the instructions of the government of Sindh, a dedicated Covid-19 ICU & HDU unit were established by the Institute, and over 1,456 admitted patients were treated completely free of charge.

- 26 functional ventilators, and other intensive care-related equipment.
- Auto - Generation Oxygen Plant with Reservoir Tanks of 2000 litres capacity each, which covers 400 Plus O₂ Points at the Institute.
- Conversion of an operation theatre, Intensive Care Unit (ICU) and a dedicated resuscitation room in ER from a positive to negative pressure environment.

| No. of ICU and HDU Beds During Pandemic | |
|---|-----------|
| First Wave | 54 Bedded |
| Second Wave | 26 Bedded |
| Third Wave | 26 Bedded |
| Fourth Wave | 90 Bedded |

Efficient Infrastructure

Independent On-Premises Auto – Generation Oxygen Plant

The SMBBIT has its own **Auto-Generation Oxygen Plant**, with 2000 litres capacity holding reservoir tanks, which cover 400 plus O₂ Points at the Trauma Centre.

During the pandemic, multiple Covid-19 patients as well as other critical care patients requiring oxygen support were often referred from tertiary care establishments to the SMBBIT for better care as other healthcare facilities were facing a shortage of oxygen during those pressing times.

Despite the vast provisional capabilities of the plant, a **Vacuum Insulated Evaporator (VIE)** with a storage capacity of 6000 cubic meter oxygen, has also been installed to provide backup support to the oxygen generation plant, in case the need ever arises.



Customized Hospital Management Information System (HMIS)



‘Absence of health-related reliable database imposes constraint to policy makers in decision making’.

The Institute’s customized Hospital Management Information System (HMIS) is a primary source of data collection for research and policy making purposes. It facilitates concerned authorities in understanding prevailing health issues and consequently, timely decision making.

Safety & Bio-Medical Management

The Institute has a building management information system for monitoring and control of its international standard HVAC system, lighting controls, fire alarm system and their integration into other building service applications such as chillers, AHUs, FAHUs, F.C.U.s, cooling towers, electrical panels. This ensures optimum performance and smooth continuity of operations.

Our in-house maintenance team includes qualified and trained electrical, mechanical, HVAC, and civil and fire & safety managers. Biomedical Engineers also take care of the repair and maintenance of assets, equipment, and machinery and building for smooth operations.



Controlling Infections Before They Can Take Control

Central Sterile Supply Department

'To minimize the infection rate in patients by providing sterilized items to all departments at the SMBB Trauma institute'

The Central Sterile Supply Department (CSSD) of the Institute is one of the most technologically advanced sterilization departments in any public sector hospital, and is providing its services around the clock.

It receives, processes, packs, and transports the sterilized items in operation theatres as well as in all departments at SMBBIT for the care and safety of patients under strict quality control.



Medical-Grade Laundry Services

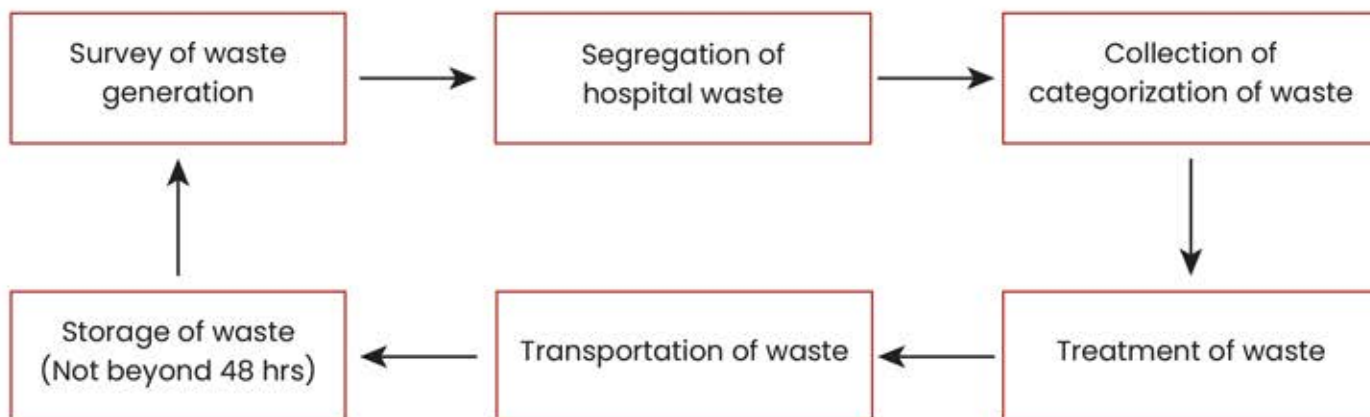
In the healthcare industry, priority is always set on the patients. Every healthcare office and hospital has the goal of making sure their patients are comfortable and ultimately, that they are healthy.

In order to achieve this goal, in light of the Guidelines for Environmental Infection Control in Health-Care Facilities, the Institute's medical grade laundry is providing the highest quality professionally cleaned and disinfected linen with a safe mode of transportation to and from the wards and emergency department.

How We Treat Waste

'Bio Infectious Waste Treatment' plant reduces secondary infections, and infectious disease transmission, and eliminates potential biohazard exposure to staff.

Bio-Infectious Waste treatment process within the hospital is carried out according to SEPA ("Sindh hospital waste Management Rules 2014")



Patient & Employee Benefits

Safe & Sympathetic Handling of Dead Bodies

As per international standards, regional hospitals and trauma centres must have an on-site morgue to host those deceased. The SMBBIT also has a 24 bedded mortuary available round the clock, to facilitate caregivers with as much ease and convenience as possible.

Inauguration of Regional Blood Centre

A 24/7 **Blood Bank Service** with a capacity of 50,000 bags annually is available on-premises at the SMBBIT, under the guidance and instruction of the Honorable Minister of Health. This regional blood bank service offers a safe transfusion of blood and its other related products free of cost, with no screening charges, which is a blessing for patients' attendants who are often lost when it comes to pre-operative prerequisites like these.



**HEALTH DEPARTMENT
GOVERNMENT OF SINDH**





Patient Facilitation Centre

The Institute provides courteous and friendly reception to families, patients, visitors and staff and provides information of a non-confidential nature to staff and visitors.

MoU Signing with CPLC for Missing Persons Identification

The SMBBIT signed an MoU with the Citizen Police Liaison Committee (CPLC), Sindh under its **Patient Shanakht Project** to help identify unknown and deceased persons who are brought to the hospital in an emergency.



OPD & Follow Up Clinics

The Institute has its own set of independent follow up clinics and OPDs located on the ground floor of the emergency department. Discharged patients are scheduled appointments with their doctors to follow up on their progress which is duly recorded against each patient's file.

Employee Recognition Activities

We are building a strong relationship between every employee and their work leaders and managers. Our employee engagement activities include: "World Pharmacist Day" & "International Nursing Day" celebrations, as well as recognition of employee services through "Employee of the Month Ceremony" and "Farewells."



World Pharmacist Day Celebration



International Nurses Day Celebration



Employee of the Month Ceremony



14th August Celebration



Employees Training Session



Farewell Party

A Teaching & Capacity Building Institute

SMBB Institute of Trauma is a constituent part of Dow University of Health Sciences and is continually increasing its services; the College of Physicians and Surgeons Pakistan has accorded its accreditation to the Department of Anesthesiology, Diagnostic Radiology, Vascular Surgery, and Infectious Diseases & Oral & Maxillofacial Surgery for MCPS & FCPS training programs.

Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Indus Hospital, The International Institute of Learning Medicine and the Health Network signed an M.O.U. for training and research for postgraduate emergency medicine trainees.



Capacity Building

The Institute's clinical staff, mainly from the Emergency Department and I.C.U. departments, are certified with Basic Life Support, Advanced Cardiac Life Support, and as well as in Emergency & Disaster preparedness. They comply with the standard criteria of Level 1 Trauma Centre and have the capacity of in-house training for personnel.

Recently, Infection control nurses are actively participating in Infection Prevention and control training organized by the Health Department in collaboration with the World Health Organization.

In collaboration with renowned Institutions, the institute conducts regular training format for the doctors, surgeons, technicians, nursing staff, and most neglected administrative staff around the year. The Institute has taken the initiative towards the establishment of "Emergency Service Academy".

Department of Research and Development (DRD)



The Department of Research and Development (DRD) has been working since 2019 at SMBB Institute of Trauma. Ms. Humera Ismail (Manager Research and Development) leads the department. DRD encourages and promotes open communication both within the office of research and with process partners and campus. We build strong relationships with existing and potential sponsors.

We make our decisions with openness and honesty and to enhance the value of the organization. We promote responsible research practices in alignment with ethical principles and compliance regulations. We encourage innovation, reflective thinking, flexibility, and adaptability in our approaches to our work, in alignment with our mission to create research-centred services.

DRD also made the institution's ethical review committee (ERC) and Scientific review committee (SRC) to facilitate the researchers. The ERC has been functional since 2020, and 25 approval has been given to researchers. Eight articles have been published in different national and international journals, five are accepted, and the remaining are submitted.

Published articles in 2020–2021

- Rehman KU, Berlas MF, Din NU, Ali G, Salahuddin F, Mumtaz A. Management of brachial artery pseudoaneurysms in intravenous drug abusers. *Cureus*. 2020;12(12).
- Naz A, Rasheed G, Rao ZA, Urooj S, Ismail H, Kumar V, et al. Clinical profile of adult tetanus patients and the impact of early tracheostomy on the outcome; a retrospective observational study. *Anaesthesia, Pain & Intensive Care*. 2021;25(5):625–32.
- NAZ A, KUMAR V, BAIG MS, JAVED S, KHAN SS, SALMAN B. Anesthetist Perception of Anesthetist–Surgeon Conflicts in Operation Theater.
- NAZ A, BAIG MS, KUMAR V, KHAN SS, JAVED S, SALMAN B. Compare the Analgesic Efficacy of Dexmedetomidine and Fentanyl as an Adjuvant to Bupivacaine for Lower Limb Surgery. *analgesia (min)*.426(92.44):206.44–48.47.
- Naz A, Baig MS, Kumar V, Khan SS, Javed S. Addition of low dose ketamine to tramadol for prevention of postanesthetic shivering: a comparative study. *Anaesthesia, Pain & Intensive Care*. 2021;25(5):596–601–596–601.

Department of research and development is also running the Trauma Registry, which is the US-made software and it was launched for the first time in Pakistan. SMBB Institute of Trauma is the only public sector institution collecting traumatic data since 2016, and it became under the umbrella of DRD since 2019.

The Department of research and development is working to enhance the quality of traumatically data registration in software and work for the Development of Pakistan's Trauma Registries according to Pakistani medical and research protocols. In Pakistan Public or private sector, the SMBBIT is the first institute that has started Trauma Registry in Pakistan.

DRD is also running an international clinical trial in SMBBIT with the collaboration with Civil hospital Karachi with the help of Dow university of health sciences. DRD is also working on publishing the SMBBIT newsletter every quarter.

- DDin NU, Berlas FT, Rehman KU, Ali G, Salahuddin F, Mumtaz A. Outcomes of Femoral Artery Pseudoaneurysm in Intravenous Drug Abusers Managed at a Tertiary Care Center. *Cureus*. 2021;13(2).
- Baqi S, Naz A, Sayeed MA, Khan S, Ismail H, Kumar V, et al. Clinical Characteristics and Outcome of Patients With Severe COVID-19 Pneumonia at a Public Sector Hospital in Karachi, Pakistan. *Cureus*. 2021;13(2).
- Ali G, Berlas MF, Din NU, Rehman KU, Saleh WM, Naqvi SAA. Outcomes of Revascularization and Factors Associated With Major Amputation in Patients With Lower Limb Arterial Injury: A Single-Center Retrospective Analysis. *Cureus*. 2021;13(8).



The Research Library & Information Centre



The Research Library & information Centre at SMBB-IT has all the relevant material and accredited emergency care journals at the disposal of healthcare experts to advance this field. In addition, the information created and compiled at the SMBB-IT and the research and academic environment made by preparing and checking Human resource improvement would lead to innovation in trauma management, conjointly customizing it to our local needs, social ethics, and economic constraints.





Clinical Departments

The Emergency Department



Clinical Sites

Shaheed Mohtarma Benazir Bhutto Institute of Trauma's emergency department is a state-of-the-art facility that features 116 emergency beds. It is unique because we have **ten ventilators** in our department dedicated to trauma patients only. The facility has **three principal trauma rooms** well equipped for surgical procedures during resuscitation of critical trauma patients in the emergency department, **one critical care bay**, i.e., Bay 1, having a capacity of 16 beds, **one stable patient bay** with 18 beds. We have a separate Bay for surgical patients, i.e., **surgical assessment unit, minor injury room** with a capacity of 3 patients, dedicated **P.O.P. room**. Inside the E.D., there is an **u/s room** for urgent E-fast, an ECHO room, a C.T. scan machine, a **dedicated Oral maxillofacial room** for managing facial and oral injuries.

Other services include 24-hour interpreters, 24-hour radiologist support with mobile and departmental X-ray services in the department, 24-hour laboratory, pharmacy services, and many other support services necessary for busy trauma emergency department. We also have a dedicated Medico-Legal department.

Education

The Department of Emergency is committed to delivering exceptional education to faculty, residents, medical students, medical officers, and physician extenders. We also offer clinical electives for medical students.

All our doctors, staff nurses, E.R. physicians, and consultants are B.L.S. or B.L.S. equivalent certified, and senior faculty is ACLS and ATLS certified.

Soon we will be going to start our residency program in emergency medicine. We have arranged an Emergency trauma/pre-hospital management symposium in collaboration with emergency specialists of U.K. and U.S. recognized guest speakers.

We are also partnered with the Aga Khan University Hospital in their **Pakistan Life Saver Program**. A national movement to save lives and empower Pakistani citizens. It is a nationwide campaign to train grade 8 and above students for life-saving skills of hands-on C.P.R. and bleeding control.

Disaster Emergency Preparedness

The emergency department of SMBBIT is ready for managing disasters of all kinds. We have arranged all lifesaving medicines and surgical supplies necessary to manage around 300 patients at once and we have a proper system of organizing more supplies on an immediate basis. In the last five years journey of SMBBIT, we have managed many major incidences successfully, among which the most important incidents were:

November 13th, 2016

Tragedy unfolds as terror strikes Shah Noorani shrine

The explosion took place at the spot where the dhamaal (Sufi ritual) was being performed, within the shrine's premises.

At least 52 people were killed, and 102 were injured. 70% of trauma was brought to Emergency Department (SMBB-IT).

Although those were our starting months, we secured many lives.

April 15th, 2019

Gusty winds, dust storm

At least five people died, and 36 others were injured patients brought to Emergency Department (SMBB-IT).

Many small and big blast incidences, building collapse incidences, gas cylinder explosion, bus rollover incident, fall of Madarsa roof incident, Lyari building collapse incident, and many others.

Apart from these acute incidences, SMBBIT is always involved in planned high alert emergencies like religious activities, political activities, National events, weather-related high alert emergency coverage like rain emergencies, heatstroke, and storm alerts.

The Department of Anesthesiology & I.C.U.



In 2016, when trauma centre established the Department of Anesthesiology and I.C.U. began offering anesthetic services only to emergency O.T.s & Trauma I.C.U. With favorable peri-operative outcome we now provide anesthesia services to emergency and elective cases of Orthopedic Surgery, Vascular Surgery, Maxillofacial Surgery, Neurosurgery, Cardiac Surgery, and Plastic Surgery, General Surgery, and Radiology suite.

Trauma ICU, HDU & Ventilation Bay

The department operates I.C.U. (12 bedded) and H.D.U. (18 bedded) on 7th floor for Critical care management of surgical patients. Acute trauma patients, that arrive in the emergency room and require immediate critical care management, are shifted to first floor ventilation bay (10 bedded). Our department also responds to emergency calls from across the institute. Our I.C.U. is unlike any other in public sector hospital with skilled and qualified doctors 24 hours a day, trained personnel and outstanding, physiotherapy services. Standard Pharmacy, nutrition and most recently psychological care are all available to ICU patients. Throughout the year there is high demand for I.C.U. beds with 95% of beds being occupied.

CPSP Accreditation

We have worked relentlessly on the academic front to train more skilled anesthetists in the country since the outset. Our department was created to address the demands of the PMDC and CPSP. CPSP accreditation for MCPS and FCPS training was attained in January 2019. There have been 27 P.G.s enrolled in the training programs since then.

The goal is to generate competent, self-assured anesthesiologists with exceptional talents.

Role in Pandemic

When Covid-19 held the entire globe captive in 2020, the anesthesia department stepped forward and assumed responsibility for running the Covid-19 unit. Despite the fact that the year has been difficult, with high patient flow and resource constraints, the ethos of 'getting the job done' has prevailed. Within a short period of time, we had formed a fantastic partnership with the infectious disease department and critical care staff. Because of management's consistent backing, we were able to overcome difficulties. To date, we have treated roughly 800 Covid-19 patients; there were large mortality rates, as in other regions of the world; there were periods of sadness and anxiety; but, we sailed out with collaboration.

Academics & Research

We hold academic meetings on a daily basis to improve education and study. We are dedicated to staying up-to-date on current research and practices, and we maintain tight ties with the research and development department. Five papers have been published in local publications and one in an international journal so far, with many more in the works.

In the future, we hope to have our department acknowledged for critical care and pain management fellowships.



Operation Theatre (OT)



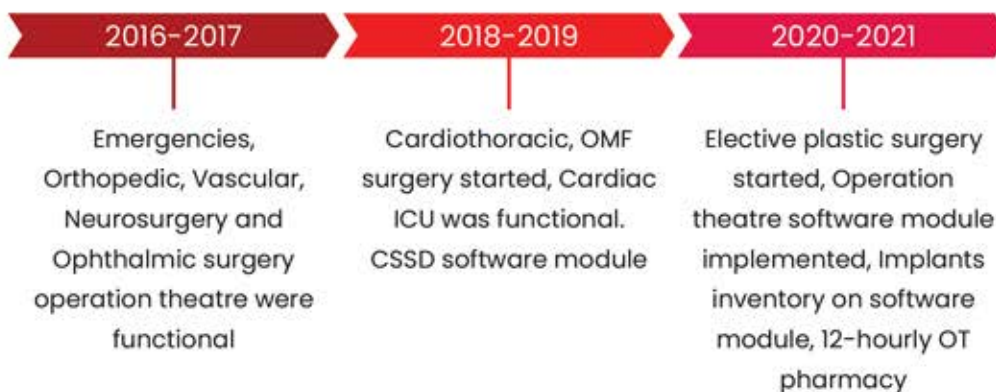
The objective of Operation Theatre (O.T.) in Trauma Institute is:

- To provide emergency operation theatre services as soon as possible.
- To prevent peri-operative infection.
- To offer advanced surgical techniques in planned or emergency surgical procedures by highly qualified-surgeons and expert staff.

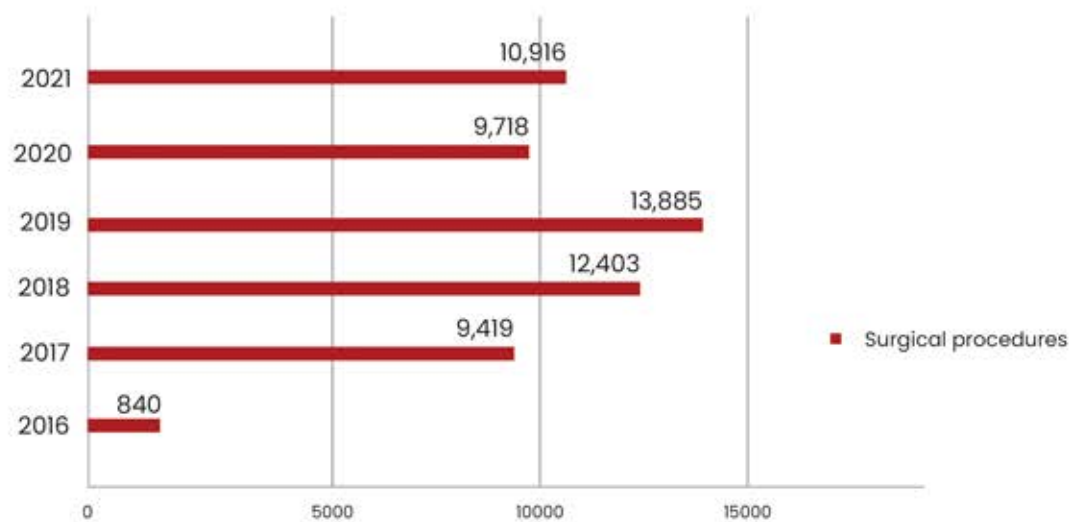
Our fifteen functional operation theatres have:

- Anti-bacterial/Vinyl seamless flooring.
- Negative pressure with HEPA filters and Individual temperature controls with dehumidifiers in all theatres.
- Advance pieces of equipment and machinery.
- Fully equipped 8- bedded holding & recovery area for pre and post-operative patients.
- 4-Bedded Cardiac I.C.U. with ventilator care monitoring.

Timeline



Surgical Procedures



Department of Orthopedic Trauma



The Orthopedic Department at the Trauma Institute commenced working in early 2017 and gradually within two years developed a fully-fledged range of trauma orthopedic services that fulfill the requirements of a Level I Trauma Centre.

Our vision is to provide exemplary, compassionate and effective patient care, while developing more effective modes of orthopedic treatment improve surgical skills as well as, pre & post- op care through empirical research based on native data.

We have been providing international standard services to all poly-trauma patients coming from Sindh, Baluchistan and beyond. We have completed 4000+ and counting solely orthopedic procedures in our department, notwithstanding the procedures we have carried out with the Vascular and OMF departments. In November 2018, an international pelvic and acetabulum conference was held and led by Dr. Amir Haleem (HoD) at the SMBB Institute Trauma, which involved delegates from the U.S.A. and Europe.

In the future we hope to develop a satellite centre for trauma services through which we can train orthopedic surgeons in other centres as well. We also hope to establish a Sports Injury Unit to educate, train and treat sports related trauma injuries.

Regardless, our primary concern shall always be educating the general public on road safety. Prevention is of utmost importance: stay safe, drive and walk cautiously to avoid severe injuries. Seat belts, helmets, avoidance of over speeding are life savers.

Department Of Neurosurgery



The Department of Neurosurgery, affiliated with Dow University of Health Sciences was shifted to Shaheed Mohtarma Benazir Bhutto Institute of Trauma in February 2017 with the aim to provide free-of-cost and dignified, exemplary care and treatment to patients suffering from brain and spinal ailments, from Sindh and across Pakistan. Our mission is to treat life threatening and debilitating craniospinal conditions by providing state-of-art care to patients.

The Neurosurgery department at SMBBIT is a 63 bed ward including, 14 bed High Dependency Unit (HDU) dedicated for neurosurgical patients. Along with these patients, the department also caters to patients accommodated in the Trauma bay, Ventilation Bay, Trauma General ICU & HDU and Covid-19 ICU. More than 100 patients at a single time are under care of the Neurosurgery department.

Patients with life or nerve threatening conditions either due to trauma or other pathologies are managed via emergency department which includes performing life-saving surgical procedures. Meanwhile, patients with long standing or less critical conditions are evaluated and admitted through outpatient department (OPD) situated in Dr. Ruth K. M. Pfau Civil Hospital Karachi OPD complex.

The department is providing completely free of cost surgery along with pre-operative and post-operative care to all its patients. The Department of Neurosurgery has been provided with two dedicated operation theatres for elective cases which run 6 days a week, operating on elective cases which include an average of 5 tumour cases (usually cancers) a week.

The department has ambition to start further advancement for delivering better care to the patients, especially related to functional neurosurgery. We also plan to expand our services related to vascular pathologies of the brain. The department with its affiliation with Dow University of Health Sciences is also serving as a teaching platform for undergraduate as well as post-graduate doctors. The department has trained many neurosurgeons that are practicing in reputed institutions of this country as well as abroad.

Department of Vascular Surgery



Department of Vascular and Endovascular Surgery (DVES) is the only set up in the government sector providing facilities for vascular diseases. Since 2016, DVES has catered a vast number of patients from all across Sindh, with emergency and elective services, for free of cost. From minimally invasive modern catheter-based intervention to traditional surgical treatment, we provide resources for patients with vascular trauma and all types of peripheral vascular disorders.

Vascular Diseases include life-threatening Aortic Aneurysms to chronic ischemic limbs, the treatment of all such is provided in our department with excellent management protocols. The unit is built to provide quality care services to patients from different parts of Sindh and Baluchistan.

With the help of highly talented and professional surgeons under Dr. Muhammad Fahad Tariq Berlas (Head, Department of Vascular & Endovascular Surgery SMBBIT), we are committed to providing free-of-cost facilities for all to save lives and limbs.

It has been an honor for our department to be recognized by CPSP, encouraging doctors to get certified Vascular Surgery Fellowship training under our name. Under the umbrella of DVES, we are very keen and enthusiastic about providing our young doctors' to facilitate them. We conducted various workshops/sessions to train them to become good, skilful, efficient doctors who have the skill set, knowledge, and morals to surpass their peers in medical training.

Researches by our Department have been recognized both nationally and internationally, being published in journals, gaining the interest of societies of Vascular Surgery worldwide. We believe in putting our efforts in the places we are needed. We aspire to go ahead with the provision of our facilities to aid in making an 'Amputation free Sindh!'

DVES has conducted over 600+ surgeries, salvaging limbs affected by Chronic and Acute limb ischemia, saving not just limbs but families from the societal dilemmas of amputations. More than 300 cases were successfully performed monthly in our state-of-the-art Catheterization Lab. We believe that our patients from chronic excruciating pains secondary to arteriovenous malformations (A.V.M.s), occluded arteries, and venous insufficiencies.

Department of Oral & Maxillofacial Surgery (OMFS)



Department of Oral & Maxillofacial Surgery (OMFS) caters to saving lives, restoring smiles. OMFS was established as a 19 bedded Unit by the undersigned as its Head in April 2018 under the visionary leadership & support from Prof. Mohammad Saeed Qureshi, the Vice-Chancellor of DUHS. The designated, independent OMFS Operation Theatre (O.T.) was later provided to us in 2019-20 due to support from SMBBIT administrative leadership & OMFS has continued to offer 24/7 active emergency services from 2019 till date to address all OMFS Trauma cases.

In COVID-19 Pandemic, OMFS ward was & is still completely functional and routine facilities are provided to our entire specialty and patients are referred to us from entire Pakistan & respective provinces. Still, we see increased flow predominantly from Karachi city and Baluchistan, Southern Punjab, and other central districts of Pakistan.

OMFS aims to establish international ties and invite overseas O.M.F. Surgeons to conduct workshops/ Seminars as soon as the COVID-19 pandemic makes life return to a routine. Since 2018, we have admitted 2,090 patients via the Department of Emergency & SMBB's O.P.D., and around 690 cases were operated under general anesthesia. OMFS also managed numerous minor Oral Surgery cases under local anesthesia by our small dedicated team.

Academic Contributions

- OMFS started Journal Club (J.C.) in 2018, and this activity continued fortnightly from March 2021.
- In February 2019, a seminar & workshop was organized by the Department of Oral & Maxillofacial Surgical Specialty on "Treatment of T.M.J. Arthropathies by Arthrocentesis" by Dr. Bert Winter Holler, an OMFS from the U.S.A., conducted this seminar and also performed live surgeries for this procedure.

The Department of Cardiac Surgery



The Department of Cardiac Surgery has been serviceable at the Shaheed Mohtarma Benazir Bhutto (SMBB) Institute of Trauma since 2018. Consultant Cardiac Surgeon Dr. Sanaullah Junejo leads the department.

From 2018 till the present, 157 surgeries have been carried out, despite the temporary closure of the department due to the COVID-19 outbreak. The department takes pride in catering to patients who are not only non-affording but also those with the most severe diseases such as severe left ventricular dysfunction (LVD), diffused coronary artery disease (DCAD), left ventricular aneurysms (L.V.A.), as well as associated co-morbidity like obesity, diabetes, chronic kidney disease, and infiltrated lungs. Despite facing challenges, the mortality rate has been 1.91% so far.

The department of Cardiac Surgery at SMBBIT takes the lead to perform procedures like radial artery grafting in young patients. One operation theatre is exclusively dedicated to cardiac surgery cases only where no other surgeries are performed. It is equipped with the most up-to-date cardiopulmonary bypass machine, ECMO Machine, and T.E.G. machine operated by a skilled team. All other equipment and surgical instruments are under strict check-in sterilization to maintain an optimum operation theatre (O.T.) environment.

The Cardiac Intensive Care Unit is situated adjacent to the O.T. It is furnished with state-of-the-art equipment such as an arterial blood gases machine, functional ventilators, and other intensive care-related equipment and maintains an ideal microbe-free environment. The patients are attended by doctors, nurses, and physiotherapists that ensure exemplary post-operative care. We are keenly looking forward to future goals: off-pump coronary artery bypass surgery and endoscopic conduit harvesting.

Department of Thoracic Surgery



SMBB Institute of Trauma is the only facility that provides the full range of thoracic services to trauma patients. The thoracic surgery department is still in inception, and more recently, COVID-19 has attracted employers' attention. Thoracic surgery is most needed in a trauma setting, as chest injuries are prevalent. However, there is a firm promise and commitment to open a separate thoracic surgical ward for dedicated patient care.

The service is being provided with a skilled team. At present other than consultant, an additional thoracic surgeon and two medical officers constitute the team. Interns and surgical fellowship trainees come on rotation from Civil Hospital Karachi (CHK) from time to time. Other than trauma, general thoracic cases of all sorts are admitted and treated. Regular consultations are provided to Trauma & I.C.U.s of CHK and all other departments of CHK, which until now did not have this service.

Fiber optic diagnostic bronchoscopy, image-guided interventions, and video-assisted thoracic procedures are performed. The aim is to make this unit a teaching and training facility recognized by CPSP for thoracic surgery, once fully established.

The Ophthalmology Department



Eyes are important to appreciate the beauty of this world. Cost effective comprehensive evaluation and management of eye diseases is an essential key to the healthy eyes. The unit will provide 24 hours eye care services and will be able to deal with medical and surgical emergencies of the eye with the high aims and objectives. Professor Mazhar-ul-Hasan, Chairperson, Department of Ophthalmology & Visual Sciences, Dow Medical College & Dr. Ruth K. M. Pfau, Civil Hospital, Karachi, took up the laborious task of effectively running and developing this department. With the dedicated team of experienced faculty, the department has acquired expertise to treat a wide range of patients with various types of eye diseases. It is one of the leading Ophthalmology Units in Sindh with the cutting-edge technology to provide comprehensive and sub-specialty services to the patients.

Well-organized and intelligently managed, this department is composed of three units. Unit I is led by Prof. Rasheed Khokhar, who is a renowned ophthalmologist and vitreoretinal surgeon. Unit II is headed by Prof. Mazhar-ul-Hasan who is a comprehensive Ophthalmologist with special expertise in paediatric eye diseases. Unit III is supervised by Prof. Nisar A. Siyal, who is well-known for his vitreoretinal services and expert catering for all complicated retinal disorders.

This new facility offers state-of-the-art services for the diagnosis and management of eye disorders. It has inpatient admission facilities in two separate areas, each for male and female patients.

The Operation Theatre Suite consists of five operation theatres where facilities are available for all eye surgical procedures. The department is dealing with all sub. specialties including the cornea, cataract, glaucoma, squint, oculoplastics, vitreoretinal and paediatric ophthalmology. These services are available for the patients free of charge, giving a priceless privilege for the poor masses with limited resources. This department will also house a library and seminar room with modern facilities to teach undergraduate and postgraduate students.

Department of Infectious Diseases



The Department of Infectious Diseases (D.I.D.) was established in September 2017 at the Shaheed Mohtarma Benazir Bhutto Institute of Trauma (SMBBIT). Infection Control is an integral part of Infectious Diseases, minimizing hospital-acquired infections and ensuring a safe environment.

The D.I.D. has rapidly expanded since its inception in 2017 and has several functions. First and foremost, it provides an Infectious Diseases consultation service to all specialties at SMBBIT and Civil Hospital Karachi (CHK). These consultations focus on diagnosis and management with emphasis on appropriate antimicrobial therapy.

The (D.I.D.) Fellowship Program was initiated at SMBBIT and CHK, Dow University of Health Sciences (DUHS) in January 2019. FCPS in Infectious Diseases is a second fellowship, and candidates are eligible if they have already completed FCPS in Internal Medicine. ID Fellows provide daily coverage in both SMBBIT and CHK. The Infectious Diseases Fellowship program will benefit these institutions for years to come and contribute to the country's pool of Infectious Diseases physicians.

The ID department is involved in teaching, both informally during rounds and consultations and through workshops, Infection Control Certification courses, and lectures, including those delivered to medical students at Dow University. An important yardstick to measure any department and Fellowship program is the quality of its research. The Infectious Diseases department has published and submitted original research papers, with several more studies currently ongoing. The ID department also participates actively in the Ethical Review Committee established at SMBBIT in 2019, ensuring scientifically robust and ethical research in the institution.

The D.I.D. was put to the ultimate test during the COVID-19 pandemic. Together with the Department of Anesthesia, the 56 bedded COVID-19 Unit was established in April 2020, at the peak of the first wave of COVID-19 in Pakistan, absorbing the large numbers of patients with severe and critical COVID-19 who urgently required a higher level of care. The Infectious Diseases doctors also assumed responsibility for evaluating, counseling, and managing healthcare workers who develop COVID-19. COVID-19 related policies, management guidelines, and directives are regularly formulated and updated by the Department of Infectious Diseases.



Allied Medical and Diagnostics

Department Of Diagnostic Radiology



The Department of Radiology was established in the year 2016 at SMBB Institute of Trauma. The radiology department provides a full range of multi-modality diagnostic and interventional radiology imaging services at international standards with the latest technology equipment operated by committed, professional and caring staff. Dr. Uroosa Asim is leading the department.

General radiography, computed tomography, and ultrasound services are available for inpatients 24/7, including weekends and public holidays. We also provide round-the-clock portable operating theatres Y imaging services, mobile radiography, and ultrasound services for those patients who cannot be transported to the imaging department. **We currently have 2 CT scan facilities, one of which is of 160 slices, and 5 portable ultrasound and x-ray machines.** The department performs more than 150,000 radiological procedures annually. Recently, we have also installed and have made functional our **MRI machine** and facility for the ease of patients.

Another MoU has been signed to also initiate additional **CT scan facilities** at the SMBBIT through the Radiology department, as well. This new facility shall be made operational soon.

The department of Radiology is striving to improve professional and academic excellence amongst radiologists through advanced training, its Neuroimaging fellowship program is accredited from CPSP and Dow University of Health Sciences.

Our Stats

128,379

CT Scans

471,303

X - Rays

183,917

Ultrasound

2,052

Flouroscopy

1,400

Echocardiography

Department of Nursing



Nurses play a vital role in medical facilities. They develop a care plan and work collaboratively with physicians, therapists, patients, patients' families, and other team members to treat their illness and improve their quality of life

The Department of Nursing at the SMBBIT is headed by Ms. Sana Amir Ali Merchant, Manager Nursing.

The department of nursing has developed nursing policies & procedures and also conducted different learning sessions/workshops to enhance nursing knowledge and practices. From start to date, almost forty-five learning sessions and thirty-three workshops have been taught to benefit our staff's skill-set and existing potential. With the same objective in mind, the department of nursing also expanded the critical care capacity of the Intensive care unit (I.C.U.) & high dependency units (H.D.U.) and trained the staff in collaboration with the Aga Khan University Hospital.

Amid the unprecedented COVID-19 pandemic, new specialized units were initiated in collaboration with the infection disease department to handle COVID-19 infected patients with the utmost care and following standard operating protocols. During this pandemic, the SMBB Institute of Trauma catered to many patients from Karachi and different areas of Sindh. Through this challenging time, nurses completed other training sessions with the help of the department of anesthesia and

- Capacity Building Training
- Advanced Cardiovascular Life Support (ACLS)
- Basic Life Support (B.L.S)
- Infection Control Workshop
- Critical Care Workshop
- Wound Care Management
- Medication Management and Usage
- Medication Error Prevention
- COVID-19 Awareness Workshop
- Emergency Preparedness
- Professionalism and Communication at the Workplace
- Standard Precautions and Practices

Department Of Nutrition and Dietetics



Department of Nutrition and Dietetics at the Institute consists of a team of highly experienced clinical registered dietitians (RD), this team is committed to improving health and wellbeing of our patients through a comprehensive clinical nutrition care and meals to admitted patients.

The Department ensures that:

- The meal requirements of patients are appropriately met
- To provide nutritional knowledge and care to patients and nutritionally build pre and post-surgery patients
- To provide sufficient knowledge about nutrition and dietetics among staff and patients
- To work efficiently as a team member with doctors and other clinical staff for the betterment of patients



The Department of Clinical Psychology

The Department of Clinical Psychology was established in 2020 to fill the post-trauma mental health care gap. The department has a holistic approach to diagnosis and testing for latent pre-existing psychiatric and psychological illness in incoming patients and exploring the domains of developing psychopathologies in long-term patients at the institute.

The department hopes to extend its services in the future to its patients and staff through novel approaches using ART therapy, occupational therapy, counseling, and qualified and standardized diagnoses, testing, and treatment.

Our aim is not just treatment but to organize and conduct research to understand the complicated nature and work of the human mind in conditions of trauma, patient care, and post-op and post-hospitalization impact.



Department of Physical Therapy and Rehabilitation (DPTR)



Under the supervision of the Department of Orthopedic Trauma, the **Department of Physical Therapy and Rehabilitation (DPTR)** has helped people who are affected by injuries, illness, or disability through movement and exercises since December 2016.

The team of physiotherapists consists of 13 highly qualified and experienced professional physiotherapy doctors. They are committed to the highest standards of conduct and ethical practice in all their endeavors and confront all issues with genuine care. Our team engages in work with patients only when their qualifications to do so are clear. They dedicate themselves to meeting patients' expectations for service continuity and integrity.

Services of DPTR

- Orthopedic Rehabilitation
- Neurosurgery Rehabilitation
- Vascular Rehabilitation
- Cardio-Thoracic Rehabilitation
- Intensive Care Unit & High Dependency Unit
- COVID-19's I.C.U
- Emergency Care Unit

Department Of Pharmaceutical Services



The Department of Pharmaceutical Services was established since the beginning of the Institute. We feel honored to be the first public sector institute having a sterile intravenous antibiotic preparation area that is the IV admixture Pharmacy since April, 2018.

Our pharmacies are working round the clock and delivering high quality medicines to all patients visiting out-patients clinics and in-patients at wards.

We aim to achieve the 'triple aim':



Better quality
of care



Better health
outcome



Lower costs

Our pharmacists are well trained in providing drug information, medicines management including preparation and dispensing of medicines, distribution of medicines to all wards, inventory management, counseling to our patients to ensure that they receive the maximum therapeutic effect from their medicines, avoid any reactions or harmful effects and clearly understand the side effects, clinical ward rounds, therapeutic drug monitoring (TDM) to ensure medications delivered to our patients in the hospital are safe, correct, in the right dosage and establishing pharmaceutical care plan for patients.

Future Plans of the SMBBIT Pharmacy Department

01 To formulate Pharmacy and Therapeutic Committee (PTC)



02 The preparation and composition of an essential - drug list or Hospital formulary.



03 To develop learning culture through training and development programs that is continuing medical education (CME) at our institute.



04 Pharmacist dynamic participation in Antimicrobial stewardship program



05 To establish Pharmacovigilance department in health system



Administration

Department of General Administration



This institute comprises of several Departments, and one of those is the General Administration Department which plays a 'Pivotal Role.' The department is chaired by Dr. Tanweer Ahmed Chachar, who is working efficiently, honestly, arduously and has proven to be very dedicated to his work under the direct supervision of the C.O.O. Dr. Muhammad Sabir Memon.

The objective of this department is:

- To keep the Hospital functioning to its best level to serve our patients better.
- To stay abreast of the preferences and needs of our Health Services Users.
- To provide the best care that's up to the mark as per the Patient Safety and Health Care Quality Standard.
- To strategically manage issues to make a progressive impact.
- To provide to better our practices in Health Services, Hygiene, Patient Care, Patient Safety and Healthcare Quality Standards.

Quality Improvement and Control Committee



SMBBIT is committed to delivering exceptional services to its patients to meet their requirements fully and ultimately, the first time and every time. We provide the highest standards of service and care to those we have the privilege to serve. Similarly, offer value-added innovative, consistent, and continuously improving health and medical care to sustain and improve clinical outcomes, patient safety, & patient satisfaction.

Our vision is to drive the culture of quality improvement and patient safety towards the journey of receiving the gold seal of approval with J.C.I. accreditation.

We Strive for Continuous Improvement By:

- Providing quality services, on-time
- Planning, implementing, monitoring, measuring, and reviewing operational effectiveness
- Creating a management structure with a clear definition of quality responsibilities
- Maintaining our Total Quality Management System with the institute's vision to accomplish accreditation with the J.C.I.
- The conducting ongoing training and development of our employees
- Promoting healthy internal communications which promote a quality-focused culture
- Policies and procedures for managing product and service quality



College of Nursing & Paramedical Services



Rehabilitation Unit



Plastic Surgery and Burns Ward



Emergency Services Academy

Support Teams







COO with HODs & Incharges



COO with Non - Clinical & Clinical Staff

Patient Satisfaction

Honest Reviews on Social Media

It is a very clean government hospital run by government of Sindh, the staff to whom I encountered was very professional, kind and well behaved. Patients are not being forced to purchase even a single tablet, food is good in quality along with fruits There are some problems in management side such as file making has some bearers. But this is not a problem if we compare it with facilities Thank you management, thank you sindh government.

Adil Ali Arain
Local Guide /

7 months ago

Shaheed Mohtaa Benazir Bhutto Trauma Center Civil Hospital, Karachi It is a latest 14 floors beautiful building, operated under Sindh government free of charge. So many cases of accidents are reaching Emergency Ward everyday Neurology and Anginas patients are also admitted, however, MRI and and blood arrangements are responsibility of patients Other blood tests and CT Scan is done inside without any costs. The management of the staff is very cooperative, however extra visitors are not allowed due to Coronavirus. The people must wear masks One person entry is at a time between 4 to 6 pm Meals are also served free of cost to patients staying inside hospital for treatment Staff is very nice May God bless them.

Ahmed Sunghaar
Local Guide /

8 months ago

It's is good from Government of Sindh, it's good environment of hospital and corporate by staff due to over crowded people it's difficult to handle daily basis but stuff and medicance available.

Ayaz H. Rizvi
Local Guide /

3 months ago



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-  Provides Compliance.
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-  Provides Economy.

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Naproxen + Esomeprazole

(accessdata.fda.gov/drugsatfda_docs/label/2014/022511s0171bl)

FDA APPROVED



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گلو موو
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۳۷۵ ملی گرام / ۲۰ ملی گرام

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Web: www.globalpharmaceuticalspk.com

Zakat Accounts

United Bank Limited

A/C Title: Shaheed Mohtarma Benazir Bhutto
Institute of Trauma Karachi Zakat Account
IBAN: PK86 UNIL 0109 0002 7664 8964

Sindh Bank

A/C Title: Shaheed Mohtarma Benazir Bhutto
Institute of Trauma Karachi Donation Account
IBAN: PK88 SIND 0003 1538 7300 2000

Donation Accounts

Sindh Bank

A/C Title: Shaheed Mohtarma Benazir Bhutto
Institute of Trauma Karachi Zakat Account
IBAN: PK61 SIND 0003 1538 7300 2001

United Bank Limited

A/C Title: SMBBITCK
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Zakat & Donations

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