MESSAGE

It is indeed an honor and great pleasure for me to write this Message for Dow Bulletin which will replace previously published DUHS Newsletters. This Bulletin will provide informations regarding different academic and scientific activities including new developments and training courses, being held at constituent institutions/departments of Dow University from time to time.

The VISION MISSION of Dow University since its inception is to provide leadership in creating and imparting knowledge through excellence in research and education with an aim to provide cost effective, contextually relevant and quality community services. We continuously strive for improvement through reflection and learning.

Alhamdolillah, now the Dow University is well ahead in achieving its major aims and objectives. By the Grace of almighty Allah the plans of 2020 have already been executed by 2012, during a short span of nine years only.

By the Grace of God the Dow University has emerged as the fastest growing Institution of Higher Education in South Asia. InshaAllah with the help of ALMIGHTY ALLAH and with the untiring efforts of the dedicated team, we will succeed in our upcoming projects, as we have been blessed until now.

I hope the Dow Bulletin will keep you updated regarding developments and activities at Dow University of Health Sciences from time to time.

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Before the establishment of Dow University of Health Sciences (DUHS) the Dow Medical College (DMC), Sindh Medical College (SMC) and Ojha Institute of Chest Diseases (OICD) were separate institutions imparting degrees of MBBS at DMC, SMC and Diploma in Chest Diseases at OICD.

After the establishment of Dow University the DMC, SMC and OICD (Ojha) came under one roof of Dow University of Health Sciences (DUHS).

Alhamdolillah the Dow University has acquired international repute during a short span of Nine years. All the developments are mentioned below with respect to the previous status in 2004 and now in 2013, for comparison of developments.

**NUMBER OF INSTITUTIONS / DEPARTMENTS / ESTABLISHMENTS**

**In 2004:** Three Constituent Institutes, Dow Medical College (DMC), Sindh Medical College (SMC) & Ojha Institute of Chest Diseases (OICD)

**In 2013:** Alhamd-o-lillah the Founding Vice Chancellor Prof. Masood Hameed Khan with his untiring and dedicated services has established more than fifty new Institutes / Departments:

1. Dow International Medical College (DIMC)
2. Dr. Ishrat-ul-Ebad Khan Institute of Oral Health Sciences (DIKIOHS)
3. Dow International Dental College (DIDC)
4. Dow Dental College (DDC)
5. Dow College of Pharmacy (DCOP)
6. Institutes of Medical Technology (IMT)
7. School of Dental Care Professionals (DCP)
8. Institute of Physical Medicine & Rehabilitation
9. School of Orthotics & Prosthetics
10. School of Occupation Therapy
11. Institute of Nursing (ION)
12. Institute of Basic Medical Sciences (IBMS)
13. Institute of Health Management (IHM)
14. Professional Development Centre (PDC)
15. **Department of Medical Education**
16. **Research Department**
17. **Information Technology Department**
18. **Campus Management Solution (CMS)**
19. **Quality Enhancement Cell (QEC)**
20. **New Academic Block**
21. **Pakistan College of General Practitioners**
22. **Department of Biophysics**
23. **Clinical Trial Unit (CTU)**
24. **Central Animal house**
25. **Learning Resource Centre**
26. **Digital libraries (at 5 institutions having total 800 computer stations)**
27. **Gymnasium, Fitness Club and Cricket ground for students**
28. **Girls Hostel block of DIMC**
29. **Boys Hostel block of DIMC**
30. **Complete Renovations and refurbishment of Dow and Sindh Medical Colleges along with TB Clinics and TB hospital at Ojha Campus.**
31. **Computer Learning Centre, with a trainer.**
32. **Dow Vocational Technical Training Centre (DVTTC) Under University Social Responsibility.**
33. **Dow University Artificial Limbs (DUAL) Centre.**
34. **New 500 bedded Dow University General Hospital**
35. **OPD Block of Dow University Hospital**
36. **National Institute of Liver & GI Diseases (NILGID)**
37. **Sarwar Zuberi Liver Centre (SZLC)**
38. **National Institute of Diabetes & Endocrinology (NIDE)**
39. **Dow Diagnostic Research & Reference Laboratory with five collection points (DDRRL)**
40. **Dow Institute of Radiology**
41. **Dow Diagnostic Complex (LEJ campus)**
42. **Institute of Pharmaceutical & Environmental Research (IPER)**
43. **Sleep Lab (Polysomnography)**
44. **School of Public Health.**
45. **Dow Institute of Life Sciences (DILS)**
46. **Theatre complex and 100 beded ICU (near completion)**
47. **Centre for Bariatric Surgery**
48. **Cochlear Implant Centre (First in Pakistan)**
49. **Thalassemia Centre**
50. **Dr. Ishrat-ul-Ebad Khan Institute of Blood Diseases**
51. **Lab Automation System**
52. **Child Development Centre**

**GRADUATE COURSES**

**In 2004:** Only MBBS at DMC & SMC

**In 2013:** Prior to the Establishment of the University the Undergraduate Medical Curriculum was taught on subject basis. Now curriculum has been completely revised to be at par with best universities of the world having international standards. Dow University is the first public sector university of Pakistan which has implemented modular integrated curriculum. The Integrated, objective based curriculum fosters professional development with systemic and coherent development of communication skills and other required skills. It involves clinical aspects right from first year giving a holistic approach.

Skill Curriculum has also been introduced to provide hands on training, to all classes from first to final year MBBS which includes hands on workshops.

The academic innovations also include:

- Structured teaching in clinical departments
- 20% weightage of clinical posting
- Introduction of behavioral sciences
- Mandatory Research, for undergraduate students, in groups, under the supervision of faculty members.

Case based learning (CBL) is conducted under the facilitation of the teachers.

- **MBBS course (5 years), separately for overseas Pakisani students at Dow International Medical College where more than 500 students are studying.**
- **BDS course (4 & 5 years) at Dr. Ishrat-ul-Ebad Khan Institute of Oral Health Sciences, where 400 students are studying.**
- **BDS course (4 & 5) years at Dow International Dental College at Ojha Campus.**
• BDS course (4 & 5) years at Dow Dental College (DDC).
• Doctor in Pharmacy (Pharm-D) 5 years
• BS in Medical Technology (4 years)
• BS in Physical Medicine (4 years) offered in four disciplines.
• Doctor in Physiotherapy (5 years course)
• BS Nursing (in four disciplines)
• BBA

POSTGRADUATE COURSES

In 2004: Only FCPS in major specialties
In 2013: Postgraduate education is one of the major pillars of the educational activities. The Post Graduate policy envisages that each student would accomplish his/her studies within the stipulated duration for the corresponding study.

1. Ph.D (in basic and Clinical Sciences)
2. FCPS-II Fellowship training offered in all specialities (Structured Program).
3. MASTERS PROGRAMS:
   • M. Phil, Leading to Ph.D. in
   • Anatomy ● Physiology ● Pharmacology
   • Biochemistry
   • Hematology ● Genetics ● Histopathology
   • Microbiology
   • Chemical Pathology ● Bio-Technology
   • Molecular Pathology.
4. MASTERS IN DENTAL SURGERY
   (MDS-Basic & Clinical)
   • Operative Dentistry ● Oral Surgery
   • Prosthodontics
   • Orthodontics ● Oral Biology ● Oral Pathology ● Dental Material
   • Community Dentistry
5. MASTERS IN DIABETES & ENDOCRINOLOGY (M.Sc. D.E)
6. MASTERS IN HEALTH PROFESSION EDUCATION (MHPE)
7. MASTERS IN PHYSIOTHERAPY (MSPT)
8. MASTERS IN NURSING (MSN)
9. MASTERS IN TRANSFUSION MEDICINE & TISSUE TYPING (MSTMGT)
10. MASTERS IN BIO-PHYSICS (MS-BPHY)
11. MASTERS IN JURIS PRUDENCE
12. MASTERS IN BUSINESS ADMINISTRATION (MBA)
   In three Disciplines
   a. Hospital Management
   b. Pharmaceutical Management
   c. Health Services Management
14. PROGRAMS OF PUBLIC HEALTH SCHOOL
   Following programs are offered:
   a) Masters in Public Health (MPH).
   b) Masters in Biostatistics and Epidemiology (MSBE).
   c) Masters of Science in Public Health (MSPH) in Social and Behavioral Sciences.
   d) MSPH in Nutritional Sciences
   e) Masters in Health Policy and Management (MHPM)
   f) M. Phill in Health Education (M.Phil HE)
   g) Diploma in Aviation Medicine

CLINICAL MASTERS PROGRAMS
The following programs of the university have been approved by Pakistan Medical and Dental Council (PMDC).
1. Medicine & Allied (MD)
   a) Medicine b) Neurology
   c) Cardiology d) Dermatology
   e) Psychiatry f) Critical Care Medicine
   g) Peadiatrics h) Radiology
2. Surgery & Allied (MS)
   a) Surgery b) Orthopedics
   c) Plastic Surgery d) Neurosurgery
   e) Peadiatric Surgery
   f) Ophthalmology g) ENT

CLINICAL DIPLOMA PROGRAMS:
1. Diploma in Family Medicine (DFM)
2. Diploma in Medical Jurisprudence (DMJ)
3. Diploma in Cardiology (Dip-Card)
4. Diploma in Critical Care Medicine (DCCM)
5. Diploma in Tuberculosis & Chest Diseases
6. Diploma in Child Health (DCH)
7. Diploma in Dermatology (D-Derm)
8. Diploma in Radiology (DMRD)
9. Diploma in Anesthesiology (DA)
10. Diploma in Ophthalmology (DO)
11. Diploma in Psychiatric Medicine (DPM)
12. Diploma in Oto-Rhino-Laryngology (DLO)

**SHORT DIPLOMA & CERTIFICATE COURSES:**
1. Echocardiography. (1-Year)
2. Ultra-Sound (6-Month)
3. Diploma in Administrative Skill
4. Diploma in Health Management
5. Certificate Course Health Professional Education (CHPE)
6. Diploma in Aviation Medicine

**CURRICULUM**

*In 2004:* The undergraduate medical education was being imparted on subject based teaching, and had annual examination system. There were four professional examinations.

*In 2013:* - The Dow University introduced integrated modular curriculum alongwith semester system, in which all the subjects are integrated into system based modules as in USA & UK etc.

- Skills curriculum has been designed in “Undergraduate Skills Lab”, for hands on training to MBBS students.

**EXAMINATION SYSTEM**

*In 2004:* Annual Theory and subjective practicals

*In 2013:* - Semester system implemented

- Practicals are structured OSPE & OSCE having transparency
- Special software generates color coded question papers, totally eliminating cheating

**RESEARCH DEPARTMENT**

*In 2004:* None existed at student or faculty level

*In 2013:* - Department was established in 2004 for:

- Undergraduate research program included in MBBS curriculum.
- Faculty members published more than 500 papers during last 8 years
- Journal of Dow University of Health Sciences (JDUHS) is published three times a year approved by PMDC & HEC and also Internationally.
- Established clinical trial unit for International and National trials, it is also registered at NIH / FDA & USA protocol.

**DEPARTMENT OF INFORMATION TECHNOLOGY**

*In 2004:* Did not exist

*In 2013:* - Established to manage DUHS business systems, DUHS website and training of IT staff etc.
- The network is also accessible through wifi
Emergency Skills.
- It has a separate section as undergraduate skills lab to provide hands on training to students from first year till final year MBBS.

**COMPUTER LEARNING CENTRE**

*In 2004:* Did not exist  
*In 2013:* Established, with 20 computers to train teachers & Staff of DUHS.

**DIGITAL LIBRARIES**

*In 2004:* Did not exist  
*In 2013:* State of art liberaries established with the help of HEC, comprising of 800 computers at five campuses.
- These are Connected to main SERVER for HEC PERN connectivity for 22000 journals / books.

**QUALITY ASSURANCE DEPARTMENT**

*In 2004:* Did not exist  
*In 2013:* Established with the help of HEC, for evalutative measures to achieve excellence in all areas by:
- Academic audit of different programs done by teachers portfolios, lecture assessments and students progress.
- Students guidance and counseling done, through Mentor System (First time in Pakistan)
- Students portfolio assess learning, thoughts and their observations.
- DUHS QEC department has established a network of quality with 135 universities all

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**PROFESSIONAL DEVELOPMENT CENTRE**

*In 2004:* Did not exist  
*In 2013:* Established for continuous medical education and hands on skills training workshops for the students, postgraduates doctors and faculty.
- It has covered area of 7500 sq ft and is fully equipped with state of art equipments, electronic simulators, manikins, simulated ICU and operation theatre, besides several tutorial rooms
- Uptil now more than 700 guest lectures and 600 hands on workshops have been conducted besides CME lectures
- It is the only centre of Pakistan, recognized by American Heart Association (AHA) for workshops on Advance Life Support &
over Pakistan, for programs of quality assurance to 86 universities for their required guidance.

- DUHS QEC has also developed linkages with several universities of USA & UK for students exchange
- Self Assessment Reports (SARs), are prepared on the basis of the criteria prescribed by the HEC for evaluation by external auditors.
- Alhamdolillah the DUHS has been ranked 13th in 2012 by HEC amongst 134 universities of Pakistan on the basis of academics and research work done in 2012, Inshaallah most likely the rank will move further up this year.
- It has also developed quality management system for ISO – 9001-2008 leading to ISO certification of DUHS.

**CAMPUS MANAGEMENT SOFTWARE**

- **In 2004:** Did not exist
- **In 2013:** - It is implemented since 2007 with the help of HEC, first time in Pakistan for management & administrative functions / integration between departments i.e admissions etc, for automating manual system.
- It also include, curriculum management schedule of classes, monitoring, and communication between teachers & students
- The system automatically process on merit basis and keeps record of financial credentials & other documents.
- The students attendance is taken directly with radiofrequency (RF) identification Cards, by RF scanners, at main entrance, lecture halls and tutorial rooms.
- The attendance of faculty members and staff of DUHS is also monitored by RF Scanners.

**NEW ACADEMIC BLOCK**

- **In 2004:** Did not exist
- **In 2013:** Four storyed new building constructed at DMC with basement to lodge various newly established departments besides Professional Development Centre.

**ESTABLISHMENT OF DR. ISHRAT-UL-EBAD KHAN INSTITUTE OF ORAL HEALTH SCIENCES (DIKIOHS)**

- **In 2004:** Did not exist
- **In 2013:** - Dr. Ishrat-ul-Ebad Khan Institute of Oral Health Sciences was established in 2006, after renovating 150 years old building, for undergraduate and postgraduate courses.
- It has 125 dental chairs besides other required modern equipments of Dentistry and Dental Hospital.
- Presently 400 students are enrolled for BDS.
- Two batches of BDS have passed out.
- School of Dental Care Professionals have 118 Dental Hygienists and Technologists undertaking Bachelor courses.
- Master of Dental Surgery (MDS)
- Master of Dental Surgery (MDS), produce teachers and researchers in Basic Dental Sciences. 48 postgraduates are enrolled and first batch of MDS have passed out.
- This Institute has conducted six dental symposium of International level, each lasting for four to five days, during last six years.
DOW INTERNATIONAL DENTAL COLLEGE (DIDC)

In 2004: Did not exist
In 2013: - Dow International Dental College for 50 overseas BDS students has been established at Ojha Campus of DUHS, after being registered by Pakistan Medical and Dental Council (PMDC). Presently two batches of BDS course are studying in this college. Five-year modular curriculum has been implemented along with 4 yrs program.

Dental Hospital provides wide range of cost effective treatment from simplest to highly complicated procedures including Dental surgeries.

DOW DENTAL COLLEGE (DDC)

In 2004: Did not exist
In 2013: - Dow Dental College has been established at the Campus of Dow Medical College.

It has also been registered by Pakistan Medical & Dental Council (PMDC), for 50 students in BDS course. It is also offering both 4 and 5 years courses based on structured integrated modular curriculum.

The associated Dental hospital of DDC is also providing full range of dental treatment like that at DIKIOHS and DIDC to the public of adjacent areas.

DOW INTERNATIONAL MEDICAL COLLEGE (DIMC)

In 2004: Did not exist
In 2013: - This medical college has been established for overseas Pakistanis, and now more than 500 students are studying. It has covered area of 1,75,000 Sq ft & is fully equipped, with all required equipments and necessities besides centralized control for security, air-conditioning and round the clock generators facility. Hostels are provided for boys and girls with all facilities.

- First batch of MBBS students have passed out in July 2012.

DOW COLLEGE OF PHARMACY (DCOP)

In 2004: Did not exist
In 2013: - Established for 5 years Pharm-D program. Presently 425 students are studying.
LEARNING RESOURCE CENTRE

In 2004: Did not exist
In 2013: - Has Covered area of 70,439sqft.
- It has a separate floor for the General Public.
- One part is dedicated to living legend Mr. Mushtaq Ahmed Yousuf for regular literary activities by various forums.
- Here 800 computers are installed to conduct computerized examinations.

GYMNASIUM & SPORTS COMPLEX

In 2004: Did not exist
In 2013: - Constructed with the help of HEC, to facilitate students. It has covered area of 14,856sqft, for basket ball, table tennis, badminton and all other indoor games.
- Besides daily games Inter Universities tournaments are also held here.
- It has a huge hall with two galleries and a fully equipped fitness club
- Grassy Green cricket ground has also been developed

INSTITUTE OF NURSING

In 2004: Did not exist
In 2013: - To educate and produce highly skilled and trained professional nurses, it was established in 2006.

- Besides Post RNBSc courses, 4 year BS Generic Nursing, Fast track BS Courses and Master's in Nursing have also been started.

INSTITUTE OF MEDICAL TECHNOLOGY

In 2004: Did not exist
In 2013: - It is established for Technology courses. More than 500 students are presently studying in different courses.
- Four years degree program are offered in surgical technology, Clinical Pathology, Respiratory & Critical Care, Cardio Vascular perfusion sciences and Ophthalmic Technology, based on eight Semesters.
- Ultrasonography, Echocardiography / electrocardiography and technician courses
for radiography, CT & MRI are also conducted.
- These graduates are globally recognized as essential members of the healthcare team, for medical care, emergency medicine, critical care and disaster management etc.

**INSTITUTE OF PHYSICAL MEDICINE & REHABILITATION**

In 2004: Did Not Exist  
In 2013: - Has been established to meet the growing needs of disable population, due to diseases, accidents, bomb blast or amputations due to diseases etc.

- It is the first Institute of its kind in Pakistan providing multi-disciplinary rehabilitation services with state of art facilities to help patients for cardiac Rehab, Pediatric Rehab, Speech and Language Rehab, for an active and healthy life style of patients. eg of stroke, TIA, head & Spinal injury, neuropathy, polio, IHD, CCF, Chronic arthritis and backache etc.

- This Institute has four specialized bachelor Programs.
  a. School of Occupational therapy, for 4 year course in occupational therapy.
  b. School of Physical therapy, for Doctor of Physiotherapy (5 year), and MS Physiotherapy (4 year).
  c. The school of Prosthetics & Orthotics for 4 year Course.
- Currently more than 150 students are studying in these Courses.
- Uptil now more than 30,000 patients have been benefited from this institute.

**DOW UNIVERSITY ARTIFICIAL LIMB CENTRE**

In 2004: Did Not Exist  
In 2013: - This fully equipped center has all the required machines and material so as to fabricate light weight artificial limbs given almost free of cost to needy patients.

- It allows amputee, the facility of cross legged sitting and praying.
- More than 2500 limbless people have been provided limbs free of cost and semi mechanized artificial hands are also provided.

**INSTITUTE OF HEALTH MANAGEMENT (IHM)**

In 2004: Did not exist  
In 2013: - Established for the management of skills required by Physicians, Dentists, Pharmacists, Nurses and Medical Technologists etc.
- It offers MBA in Health Services Management, Pharmaceutical Management, Hospital Management, Health Marketing, Health finance, Human Resource Management.
- Besides these Executive MBA courses BBA
courses are also conducted.

- Now short courses in Administration skill, hospital management and health care services, designed for Postgraduate business students are also being conducted.

**INSTITUTE OF BASIC MEDICAL SCIENCES**

**In 2004:** It Did not exist  
**In 2013:** It is Established for MPhil and PhD Courses in basic sciences.

- It has fully equipped lab with modern instruments.
- Animal House of International Standard has also been provided.
- Presently 130 students are undertaking MPhil and PhD Courses in various specialities.

**CENTRAL ANIMAL HOUSE**

**In 2004:** It Did not exist  
**In 2013:** - Established for the researchers of MPhil, PhD.

- The 4000 sqft area has rabbits, rats, horses mice and guinea pigs besides all specialities of snakes, monkeys and horses. They are kept according to international standard for animal well being.
- Veterinary Doctor alongwith helping staff is available for animal house.

**DR. ISHRAT-UL-EBAD KHAN INSTITUTE OF BLOOD DISEASES**

**In 2004:** It Did not exist  
**In 2013:** - Established for clinical research in blood diseases and for MPhil and PhD courses besides blood transfusion services.

- It will also meet increasing demands of blood in diseases, road accidents, gunshot wounds and other conditions.

**DOW DIAGNOSTIC RESEARCH AND REFERENCE LABORATORY (DDRRL)**

**In 2004:** It Did not exist  
**In 2013:** - Established to provide, reliable, high quality diagnostic services for all tests at very economical rates, approximately 30% as that of in private labs.

- Performed by highly qualified and experienced technicians.
- Besides the main lab, 5 collection points are at DMC, Near JPMC, Nazimabad, F.B Area and Malir to facilitate patients.
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- The research facilities for MPhil & PhD students are also provided in research section.
- All biochemistry, haematological tests, hormonal assays and tumor markers are performed on fully automated analyzers.
- It has certification & accreditations, ISO 15189 accreditation and ISO 9000-2001 Certification
- Inshaallah from March 2013 lab automation will be functional to meeting rapidly increasing demand of tests.

INSTITUTE OF PHARMACEUTICAL AND ENVIRONMENTAL RESEARCH (IPER)

In 2004: It Did not exist
In 2013: Established to provide bioequivalence studies, drug monitoring and assess contamination of food, water & environment

DOW INSTITUTE OF RADIOLOGY

In 2004: It Did not exist
In 2013: Initially a Radiology Complex which now has been developed into an Institute and it is fully equipped with equipments of GE (USA), performed at highly competitive rates.

- MRI (1.5 Tesla) has high magnetic field for different body parts besides MR angiography, MR Cholangiopancreatography and dynamic contrast studies of whole body
- 16 slice CT scanner has advance & broad range of applications, to include orthopedic, imaging and angiography etc.
- Ultrasound with color dopler also available.
- Dexascan measures bone mineral density for osteoporosis.
- Mammography unit performs screening and diagnostic procedures.
- Digital fluoroscopy unit enhances studies of GIT and urinary tract.
- General Radiography and digital radiography (DR) makes it possible to retake films and floating table tops facilitate.
- IVPs, MCUG, hystero salpingograms, urethograms etc are also being performed at this centre
- All above mentioned tests are performed at about 30% of the cost as campared to private setups.
- Now the Institute has also started various training courses in Radiology for doctors and Technicians.

DOW UNIVERSITY GENERAL HOSPITAL

In 2004: Did not exist
In 2013: It is a teaching hospital of Dow International Medical College and also for training of postgraduates, nurses, technologists and other training courses.
- It is a 500 bedded, three storyed hospital. Presently 400 beds facilities are in use for indoor patients, soon further extension will be done.
- It has 13 spacious general wards, semiprivate rooms, private rooms, operation theatres, labor room, intensive care unit, Neonatal Intensive care unit, Endoscopy units, portable ultrasound, Echocardiography facility, fully equipped emergency room and pharmacy.
- The surgeries carried out in the hospital include those of abdomen, chest, urology, orthopedic, gynae & obstetrics, plastic surgery and ENT etc in fully equiped operation theatres.

Dow Hospital also provides round the clock emergency services.
- All medicines are provided at discounted rates in the hospital pharmacy.
- Special medical and surgical packages are also provided at extremely discounted rates.
- The Dow Hospital is a part of medical health & research city, hence all backup support departments are available to fulfil requirements of diagnosis and treatment.

**SARWAR ZUBERI LIVER CENTRE**

- Did not exist in Jan 2004.
- It was established in May 2004 for diagnosis and management of Patients with liver diseases.
- Screening of patients and free camps are conducted frequently besides hepatitis B vaccination at very low cost.
- More than 30,000 patients have been registered here uptil now who are managed with regular follow-up as per requirement.

**NATIONAL INSTITUTE OF LIVER & GI DISEASES (NILGID)**

- Did not exist.
- Established specifically for liver diseases and management. Presently it is at Ojha campus and has 3 endoscopy suites, for

**NATIONAL INSTITUTE OF DIABETES & ENDOCRINOLOGY (NIDE)**

- Did not exist
- It is Established for patients of Diabetes and Endocrine diseases.
- Management of eye complications with laser photoagulation is also available here.
- It has more than 10,000 registered patients being followed up.
- It also Conducts 2 year course of Masters in Diabetes & Endocrinology.
- Public Awareness Programs are held regularly.
Diagnostic and therapeutic interventions like endoscopies, colonoscopies and ERCP at extremely low cost.

- Bleeding Care Unit, provide Emergency services for upper and lower GI bleeding cases round the clock.
- There is a fully equipped high dependency unit and ICU with monitors & ventilators managed by highly trained staff.
- Fibroscan, Pakistans first machine is also installed at NILGID which is a unique machine providing all informations about liver pathology without Liver biopsy.
- Daily about 100 patients are seen in the OPD and 20 endoscopies are performed, besides other required procedures.
- Specialized procedures like Radio Frequency Ablation (RFA) and TACE for liver cancer and TIPS in complicated cases are also performed.

**INFRASTRUCTURE OF DOW MEDICAL COLLEGE (DMC) & SINDH MEDICAL COLLEGE (SMC)**

**In 2004:** Old building (required lot of civil work).
- Lecture Halls were less in numbers, without air conditioning, multimedia and other teaching aids.
- Laboratories had very old equipments and broken furnitures. They were not airconditioned.
- Hostel buildings of Dow Medical College (DMC) and Sindh Medical College (SMC) required lot of civil work.
- Canteens & Common rooms of boys & girls were small in size requiring lot of repair and lacked facilities.
- No generators were available.

**In 2013:** Whole of DMC & SMC infrastructure has been renovated completely and refurbished with most modern facilities.
- All lecture halls and auditoriums have been renovated, new furnitures, multimedias, computers and other required gadgets are installed.
- All laboratories are completely renovated, & re-equipped with modern equipments with air-conditioning.
- All hostels are also completely renovated and refurbished, New Canteen blocks are also constructed and common rooms are renovated with provision of extra facilities.
- Arag Auditorium renovated with new back entrance and a huge lawn in front.
- Heavy duty generators at DMC, SMC and Ojha provide electricity round the clock at all campuses.
- Power labs have been installed for teaching on scientific principles replacing old practicals on drums. It has lab tutor software with different protocols to guide students.
- Plastic bone bank has overcomed human bone deficiencies.

**INFRASTRUCTURE OF OJHA CAMPUS**

In 2004 130 acres of land, only had Ojha Institute of Chest Diseases (OICD), having 250 bedded hospital and OPD block in old redundant buildings.
- There was No ICU or ventilators in OICD.
- There was no operation theatre.
- The land was deserted having wild bushes except for some old broken huts & buildings.

In 2013: The 250 bedded TB hospital building has been completely renovated with addition of numerous facilities.
- New ICU with ventilators has been constructed to provide free treatment to TB
patients including those of Multi Drug Resistant TB patients, which at private setup cost at least 30 – 50,000Rs / Day.
- New fully equipped operation theatre has also been constructed for patients of TB and various chest diseases.
- Some huts have been renovated for use of administrative offices.
- Master plan of whole 130 acres of land at OICD has been planned and constructions / renovations are done accordingly.

**NUMBER OF UNDERGRADUATE STUDENTS**

| In 2004:    | 2795 | In 2013: | 5498 |

**NUMBER OF POSTGRADUATE STUDENTS**

| In 2004:    | 114  | In 2013: | 1064 |

**NUMBER OF FACULTY MEMBERS**

| In 2004:    | 304  | In 2013: | 871  |

**FACILITIES FOR STUDENTS**

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- Admissions in MBBS were not transparent for any merit system.
- No air conditioning in teaching rooms, labs etc.
- Black Board Teaching were done and lectures were unstructured.
- Old buildings had minimum facilities in hostels & common rooms.
- Annual exams & viva voice had non-transparent.
- Curriculum was not at par with International standard.
- No skills training centre or digital library was there. **In 2013:** Admissions in all undergraduate and postgraduate courses are given on merit basis through a transparent & fool proof system.
- All Class Rooms, Labs & Museums have airconditioning system.
- Power Point Teaching With Multimedia.
- All Lectures are structured and available on DUHS website.
- Wifi & Internet facility is provided to students & faculty members.
- State of art digital libraries with access from home also with password.
- Modular structured integrated curriculum, makes them eligible to compete easily with other students at international level.
- Undergraduate skills lab & professional development centre provides all required basic and highly specialized skills with modern equipments and manikins, technical and master trainers.
- Special courses are introduced for personality grooming of students including communication skills, medical ethics, research methodology and behavioral sciences etc.
- Attendance system is transparent with radiofrequency identification (RFID) card.
- Semester system has been introduced to be at par with International standard and reduce burden of studies and provide wide based knowledge.
- The old viva voice examination has also been replaced by structured practical & clinical examination (OSPE) & (OSCE) for ease and transparency.
- Co-Curricular activities are provided frequently besides annual sports week for all types of activities including sports, talent show, debates and games etc.
- Mentor system has also been successfully introduced first time in Pakistan for students
help in Academics, personal, social and psychological problems besides counseling.

- All Hostels, common rooms, canteens are renovated with provision of extra facilities.
- Dow club card has also been introduced for students and faculty to have discounts for shopping and at restaurants etc.
- Career guidance centre has also been established to guide students for career. It is a new interactive, computer based career guidance centre.

**FACILITIES FOR FACULTY / STAFF OF DUHS**

**In 2004:** Faculty had bare minimum facilities
- No computer facilities or training available.
- No Training courses provided.
- No Skills training centre, research facilities or digital library available.
- No health insurance policy existed.

**In 2013:** Faculty grade enhancement has been done.
- Laptops are provided on discounted prices and in small installments.
- Computer training provided to faculty.
- Teachers training courses provided at frequent intervals to impart teaching skills.
- Regular workshops are conducted for MCQs / BCQs, research methodologies, medical & grant proposal writing etc.
- Hands on training in specified specialities are provided to improve their skills.
- Research facilities provided at research laboratory, animal house, by supervisors with discounted tuition fees for postgraduate courses of the faculty and their children.
- Research grant of Rs. 100,000 is provided if the submitted proposal is approved by DUHS Institutional Review board (IRB).
- Health insurance is provided for best treatment at best hospitals of city.
- Digital library access from home is also provided with individual password.
- Dow club card facility for discounts at restaurants & shopings etc has been given.

- Vocational technical training is provided to children of DUHS employees.
- Programs offered include all computer programs, graphics and web designing, Multimedia, Animation etc. Girls are trained in stitching, serving, embroidery, dress & candle making. Upcoming courses include fashion and textile designing, courses of beautician, plumbing & electrical courses etc.

**SOCIAL RESPONSIBILITIES**

**In 2004:** These were not conducted.

**In 2013:** Several social responsibilities have been taken up by Dow University as per need.
- In 2005 massive earthquake, DUHS medical teams with supplies reach affected areas.
- During massive floods in 2010 & 2011, the faculty, students, doctors & staff of DUHS worked day & night, collected funds and packed food items alongwith daily utilities as per family requirements.
Dow Health magazine is published regularly for the awareness of general public.

MEDICAL RESEARCH & HEALTH CITY

In 2004: Did not exist.
In 2013: The 128 acres of Ojha campus land has been converted into a MEDICAL CITY after the development of Master plan and numerous projects have already been executed, as mentioned above.

Almost 50% of the Master plan has been completed and the remaining projects have almost been designed to be executed as per planning and financial assistance.

19 Truck loads were sent to Interior Sindh with the staff and students who distributed them personally to flood affectees.

Dow Health Expo was conducted for public awareness programs and free checkups and tests.

DOW UNIVERSITY OF LIVER & GI DISEASES (NILGID)

Facilities Provided at NILGID & Dow Hospital

- Daily OPD (8:00am-8:00pm)
- 24 Hours Emergency Care
- Patients Admission in General, Semi Private or Private wards
- Fully equipped Intensive care unit (ICU)
- Fully equipped High dependency unit (HDC)
- Bleeding care unit with 24 hours emergency service by consultants
- Fully equipped modern operation theater
- Discounted Medicines from Dow Pharmacy
- Discounted Hepatitis B Immunization
- Fully equipped Dow Laboratory, providing 24 hours services.
- Fully equipped Dow Radiology Dept. Providing 24 Hours services including MRI & CT Scan services etc
- Highly qualified & experienced faculty & Staff
- Computerized Record of patients
- Clean & Hygienic environment
- Security System

Low Charges at NILGID (few comparisons)

<table>
<thead>
<tr>
<th>Tests</th>
<th>NILGID Charges Rs</th>
<th>Private Hosp Charges Rs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment for hepatitis C</td>
<td>3000/-</td>
<td>7000/- to 10000/-</td>
</tr>
<tr>
<td>(3 injections weekly plus tablets)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treatment for hepatitis B</td>
<td>2000/-</td>
<td>6000/-</td>
</tr>
<tr>
<td>Endoscopy</td>
<td>3500/-</td>
<td>12000/-</td>
</tr>
<tr>
<td>Colonoscopy</td>
<td>5000/-</td>
<td>18000/-</td>
</tr>
<tr>
<td>Band Ligation</td>
<td>8500</td>
<td>28000</td>
</tr>
<tr>
<td>ERCP Diagnostic Treatment</td>
<td>1000</td>
<td>3500</td>
</tr>
<tr>
<td>Fibroscan</td>
<td>15000</td>
<td>70,000</td>
</tr>
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</table>

Location Map
### Comparative Statement of Different lab Investigations Rate List

<table>
<thead>
<tr>
<th>Tests</th>
<th>Private lab Charges</th>
<th>Dow Lab Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ANA PROFILE (ANA,AMMA,ASMA)</td>
<td>1850</td>
<td>1000</td>
</tr>
<tr>
<td>• BLOCK FOR IMMUNOHISTOCHEMISTRY</td>
<td>4760</td>
<td>2500</td>
</tr>
<tr>
<td>• Bone Marrow Biopsy (Trephine)</td>
<td>3900</td>
<td>2500</td>
</tr>
<tr>
<td>• CA-125 (Cancer Antigen-125)</td>
<td>3450</td>
<td>1200</td>
</tr>
<tr>
<td>• CBC &amp; ESR</td>
<td>660</td>
<td>300</td>
</tr>
<tr>
<td>• CEA (CARCINOEMBRYONIC ANTIGEN)</td>
<td>2940</td>
<td>1200</td>
</tr>
<tr>
<td>• CHOLESTEROL</td>
<td>420</td>
<td>100</td>
</tr>
<tr>
<td>• CPK (Creatine Phospho Kinase)</td>
<td>570</td>
<td>150</td>
</tr>
<tr>
<td>• Dengue Virus (IgG/IgM)</td>
<td>1580</td>
<td>700</td>
</tr>
<tr>
<td>• FISH</td>
<td>18790</td>
<td>7000</td>
</tr>
<tr>
<td>• GCT (Glucose Challenge Test) NON-GESTATIONAL</td>
<td>430</td>
<td>200</td>
</tr>
<tr>
<td>• HBA1C (GLYCOSYLATED HEMOGLOBIN)</td>
<td>1330</td>
<td>500</td>
</tr>
<tr>
<td>• HbsAg</td>
<td>990</td>
<td>400</td>
</tr>
<tr>
<td>• HBV DNA DETECTION BY PCR (QUALITATIVE)</td>
<td>5440</td>
<td>2500</td>
</tr>
<tr>
<td>• HCV RNA DETECTION BY PCR (QUALITATIVE)</td>
<td>6610</td>
<td>2500</td>
</tr>
<tr>
<td>• HDL (HIGH DENSITY LIPOPROTEINS)</td>
<td>430</td>
<td>200</td>
</tr>
<tr>
<td>• Helicobacter Pylori Antibody (CLIA)</td>
<td>1460</td>
<td>700</td>
</tr>
<tr>
<td>• Hepatitis A Antibody IgM</td>
<td>1700</td>
<td>700</td>
</tr>
<tr>
<td>• Hep-B Core IgM, Total and e antibody</td>
<td>8490</td>
<td>2400</td>
</tr>
<tr>
<td>• Hepatitis B Surface Antibody</td>
<td>1200</td>
<td>600</td>
</tr>
<tr>
<td>• HEPATITIS B VIRAL LOAD (Quantitative)</td>
<td>19360</td>
<td>5000</td>
</tr>
<tr>
<td>• Hepatitis Be Antigen</td>
<td>1700</td>
<td>600</td>
</tr>
<tr>
<td>• Hepatitis C Virus Viral Load (Quantitative)</td>
<td>15970</td>
<td>5000</td>
</tr>
<tr>
<td>• HISTO BLOCK 2ND OPINION</td>
<td>2200</td>
<td>1000</td>
</tr>
<tr>
<td>• Histopathology Biopsy Large</td>
<td>4350</td>
<td>1200</td>
</tr>
<tr>
<td>• LFT (LIVER FUNCTION TESTS)</td>
<td>1070</td>
<td>500</td>
</tr>
<tr>
<td>• LIPID PROFILE</td>
<td>1700</td>
<td>600</td>
</tr>
<tr>
<td>• Pap Smear with Procedure</td>
<td>1560</td>
<td>650</td>
</tr>
<tr>
<td>• Para Thyroid Hormone (PTH)</td>
<td>1970</td>
<td>900</td>
</tr>
<tr>
<td>• PSA (Prostatic Specific Antigen)</td>
<td>2310</td>
<td>700</td>
</tr>
<tr>
<td>• THYROID PROFILE</td>
<td>2260</td>
<td>1000</td>
</tr>
<tr>
<td>• Typhidot</td>
<td>1380</td>
<td>500</td>
</tr>
<tr>
<td>• Urine C/IS</td>
<td>1250</td>
<td>500</td>
</tr>
<tr>
<td>• Vitamin D TOTAL (25-OH) D2+D3</td>
<td>2620</td>
<td>1200</td>
</tr>
<tr>
<td>• 24 Hours Urine For Creatinine Clearance</td>
<td>1200</td>
<td>400</td>
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</tbody>
</table>

### Interventional Radiology

#### List of procedures with rates

<table>
<thead>
<tr>
<th>Tests</th>
<th>Private Radiology Charges</th>
<th>Private Radiology Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>• CVP line insertion</td>
<td>5000</td>
<td>7500</td>
</tr>
<tr>
<td>• PICC line insertion</td>
<td>11,000</td>
<td>14000-18000</td>
</tr>
<tr>
<td>• Permacath insertion</td>
<td>20,000</td>
<td>30000-40000</td>
</tr>
<tr>
<td>• PCN unilateral</td>
<td>8000</td>
<td>12000-18000</td>
</tr>
<tr>
<td>• PCN bilateral</td>
<td>14,000</td>
<td>14000</td>
</tr>
<tr>
<td>• DJ stenting unilateral</td>
<td>11,000</td>
<td>20000</td>
</tr>
<tr>
<td>• DJ stenting bilateral</td>
<td>22,000</td>
<td>40000</td>
</tr>
<tr>
<td>• Peripheral angiography or venogram</td>
<td>11,000</td>
<td>20000-25000</td>
</tr>
<tr>
<td>• Pigtail insertion</td>
<td>5000</td>
<td>6500-7500</td>
</tr>
<tr>
<td>• PTC with drainage catheter</td>
<td>16,500</td>
<td>25000-30000</td>
</tr>
<tr>
<td>• PTC with stenting</td>
<td>65,000</td>
<td>80000-110000</td>
</tr>
<tr>
<td>• PTC diagnosis</td>
<td>80000</td>
<td>11000-15000</td>
</tr>
<tr>
<td>• IVC filter insertion</td>
<td>65000</td>
<td>100000-125000</td>
</tr>
<tr>
<td>• Transarterial embolization with gel foam</td>
<td>11,000</td>
<td>25000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tests</th>
<th>Dow Radiology Charges</th>
<th>Private Radiology Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Transarterial embolization with PVA</td>
<td>20,000</td>
<td>35000</td>
</tr>
<tr>
<td>• Transarterial embolization with coil (single)</td>
<td>25,000</td>
<td>40000-45000</td>
</tr>
<tr>
<td>• TACE without micro-catheter</td>
<td>35,000</td>
<td>60000-80000</td>
</tr>
<tr>
<td>• TACE with micro-catheter</td>
<td>60,000</td>
<td>110000</td>
</tr>
<tr>
<td>• Uterine fibroid embolization</td>
<td>55,000</td>
<td>70000-100000</td>
</tr>
<tr>
<td>• Percutaneous gastrostomy</td>
<td>32,000</td>
<td>40000</td>
</tr>
<tr>
<td>• Ultrasound-guided biopsy (any)</td>
<td>2300</td>
<td>6000</td>
</tr>
<tr>
<td>• CT-guided biopsy (any)</td>
<td>4500</td>
<td>80000</td>
</tr>
<tr>
<td>• Radio Frequency Ablation (RFA)</td>
<td>60000</td>
<td>110000</td>
</tr>
<tr>
<td>• Bronchial artery embolization</td>
<td>25,000</td>
<td>vary</td>
</tr>
<tr>
<td>• Transjugular biopsy of liver</td>
<td>60,000</td>
<td>60000-70000</td>
</tr>
<tr>
<td>• GI bleeder (basic)</td>
<td>20,000</td>
<td>30000-40000</td>
</tr>
<tr>
<td>• Peripheral biopsy of liver</td>
<td>30,000</td>
<td>vary</td>
</tr>
<tr>
<td>• Balloon plasty</td>
<td>18,000</td>
<td>vary</td>
</tr>
</tbody>
</table>
## DENTAL INSTITUTES along with DENTAL HOSPITALS of Dow University

### RATE LIST

<table>
<thead>
<tr>
<th>Sr #</th>
<th>Treatment / Service</th>
<th>Private Treatment Charges</th>
<th>DOW Treatment Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OPD</td>
<td>300</td>
<td>Free</td>
</tr>
<tr>
<td>2</td>
<td>Impaction</td>
<td>5,000</td>
<td>300</td>
</tr>
<tr>
<td>3</td>
<td>Arch Bar Fixation (Single Jaw)</td>
<td>8,000</td>
<td>500</td>
</tr>
<tr>
<td>4</td>
<td>Fracture (L.M.P)</td>
<td>8,000</td>
<td>800</td>
</tr>
<tr>
<td>5</td>
<td>Gingivectomy &amp; other Perio Flaps / Crownlenthening</td>
<td>5,000</td>
<td>500</td>
</tr>
<tr>
<td>6</td>
<td>Apicectomy</td>
<td>10,000</td>
<td>500</td>
</tr>
<tr>
<td>7</td>
<td>Cyst / Enucleation</td>
<td>7,000</td>
<td>500</td>
</tr>
<tr>
<td>8</td>
<td>O.A.F. Repair</td>
<td>8,000</td>
<td>500</td>
</tr>
<tr>
<td>9</td>
<td>Alveectomy</td>
<td>8,000</td>
<td>300</td>
</tr>
<tr>
<td>10</td>
<td>Complete Denture (Pair)</td>
<td>25,000</td>
<td>1,000</td>
</tr>
<tr>
<td>11</td>
<td>Partial Denture (per tooth)</td>
<td>500</td>
<td>50</td>
</tr>
<tr>
<td>12</td>
<td>Immediate Denture Partial (per tooth)</td>
<td>500</td>
<td>50</td>
</tr>
<tr>
<td>13</td>
<td>Immediate Denture Complete</td>
<td>30,000</td>
<td>1,000</td>
</tr>
<tr>
<td>14</td>
<td>Relining per Arch</td>
<td>2,000</td>
<td>150</td>
</tr>
<tr>
<td>15</td>
<td>Repair per Arch</td>
<td>1,000</td>
<td>100</td>
</tr>
<tr>
<td>16</td>
<td>Obturator Surgical</td>
<td>8,000</td>
<td>250</td>
</tr>
<tr>
<td>17</td>
<td>Obturator Intrin</td>
<td>8,000</td>
<td>500</td>
</tr>
<tr>
<td>18</td>
<td>Splints</td>
<td>5,000</td>
<td>500</td>
</tr>
<tr>
<td>19</td>
<td>Crown &amp; Bridge (per unit)</td>
<td>5,000</td>
<td>1,200</td>
</tr>
<tr>
<td>20</td>
<td>Metal Crown (per unit)</td>
<td>3,000</td>
<td>600</td>
</tr>
<tr>
<td>21</td>
<td>Crown inclusive posts</td>
<td>7,000</td>
<td>1,200</td>
</tr>
<tr>
<td>22</td>
<td>Ultrasonic Scaling</td>
<td>3,000</td>
<td>Free</td>
</tr>
<tr>
<td>23</td>
<td>Manual Scaling</td>
<td>3,000</td>
<td>Free</td>
</tr>
<tr>
<td>24</td>
<td>Fluoride Application</td>
<td>1,000</td>
<td>100</td>
</tr>
<tr>
<td>25</td>
<td>Polishing</td>
<td>200</td>
<td>100</td>
</tr>
<tr>
<td>26</td>
<td>Medication / Tetracycline Application</td>
<td>500</td>
<td>150</td>
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<tr>
<td>27</td>
<td>Prophy Jet (Stain Removing polishing)</td>
<td>2,000</td>
<td>1,200</td>
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<td>28</td>
<td>Curretage</td>
<td>3,000</td>
<td>150</td>
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<td>29</td>
<td>Gingivectomy</td>
<td>3,000</td>
<td>150</td>
</tr>
<tr>
<td>30</td>
<td>Various Flap Procedures</td>
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<td>1,000</td>
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<tr>
<td>31</td>
<td>GTR Guided Tissue Regeneration</td>
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<td>5,000</td>
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<tr>
<td>32</td>
<td>Dental Implant</td>
<td>90,000</td>
<td>21,000</td>
</tr>
<tr>
<td>33</td>
<td>Periapical X-Ray / Bite Wing</td>
<td>200</td>
<td>30</td>
</tr>
<tr>
<td>34</td>
<td>O.P.G</td>
<td>700</td>
<td>100</td>
</tr>
<tr>
<td>35</td>
<td>Occlusal X-Ray</td>
<td>500</td>
<td>200</td>
</tr>
<tr>
<td>36</td>
<td>Lateral Safe X-Ray</td>
<td>800</td>
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<tr>
<td>37</td>
<td>Temporary Restoration</td>
<td>300</td>
<td>50</td>
</tr>
<tr>
<td>38</td>
<td>Amalgam Restoration Class I &amp; II</td>
<td>1,000</td>
<td>80</td>
</tr>
<tr>
<td>39</td>
<td>Composite Restoration Class I, II, III, IV</td>
<td>1,500</td>
<td>250</td>
</tr>
<tr>
<td>40</td>
<td>Composite / GIC Class V</td>
<td>1,500</td>
<td>80</td>
</tr>
<tr>
<td>41</td>
<td>Composite / GIC core buildup</td>
<td>1,500</td>
<td>250</td>
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<tr>
<td>42</td>
<td>Amalgam core buildup</td>
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<td>150</td>
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<tr>
<td>43</td>
<td>Porcelain Vaneer</td>
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<td>1,000</td>
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<tr>
<td>44</td>
<td>Composite Vaneer</td>
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<tr>
<td>45</td>
<td>Pulpectomy</td>
<td>2,000</td>
<td>100</td>
</tr>
<tr>
<td>46</td>
<td>Root Canal Treatment Single Rooted</td>
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<td>400</td>
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<tr>
<td>47</td>
<td>Root Canal Treatment Multi Rooted</td>
<td>4,000</td>
<td>800</td>
</tr>
<tr>
<td>48</td>
<td>Apexification including RCT</td>
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<tr>
<td>49</td>
<td>Apexogenesis including RCT</td>
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<td>1,000</td>
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<tr>
<td>50</td>
<td>Mummification including restoration</td>
<td>3,000</td>
<td>100</td>
</tr>
<tr>
<td>51</td>
<td>Fissure Sealant</td>
<td>2,000</td>
<td>150</td>
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<tr>
<td>52</td>
<td>Bleaching (Full Mouth)</td>
<td>10,000</td>
<td>3,000</td>
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<tr>
<td>53</td>
<td>Surgical Endodontics including RCT</td>
<td>8,000</td>
<td>1,200</td>
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<tr>
<td>54</td>
<td>Glass ionomer cement Restoration</td>
<td>1,500</td>
<td>200</td>
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<tr>
<td>55</td>
<td>Inlay and Onlay</td>
<td>3,000</td>
<td>500</td>
</tr>
<tr>
<td>56</td>
<td>Pin retained restoration</td>
<td>2,000</td>
<td>300</td>
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<tr>
<td>57</td>
<td>Diastema Closure</td>
<td>2,000</td>
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<tr>
<td>58</td>
<td>Treatment for Discolored Tooth</td>
<td>2,000</td>
<td>500</td>
</tr>
<tr>
<td>59</td>
<td>Composite Splinting</td>
<td>2,000</td>
<td>400</td>
</tr>
</tbody>
</table>
His Excellency Honourable Governor Sindh & Chancellor DUHS
Dr. Ishrat-ul-Ebad Khan
Donating Blood

for Dow Blood Transfusion Services

- Blood Transfusion Services is one of the essential part of healthcare system.
- Dow University has taken initiative of providing safe, efficient and quality assured blood transfusion service to the needy patients.
- This service will help in the prevention of transmission of infections like Hepatitis B & C and HIV and will also assist in reducing maternal mortality related to unsafe blood transfusion.
- A voluntary blood donation recruitment program has already been initiated at Dow University to build a sustainable foundation of safe blood supply.

Dr. Ishrat-ul-Ebad Khan
Institute of Blood Diseases
Dow University of Health Sciences