

# **ANNUAL REPORT**

### 20 Achievements in 2020

### Summary

### 1. School of Dentistry-

- a. Completion of project
- b. Visit of PMC secured 94% marks (highest in the country)
- c. Post graduate classes
- d. Start of OPD at Dental hospital
- 2. Post-graduate programs
  - a. MPhil, PhD Genetic disorder, infectious diseases, Cancer Genetics
  - b. BS Generic program (100 % increase in seats)
- 3. Undergraduate program DPT
- 4. Service Rules 2020 for SZABMU notified
- 5. Telemedicine Center
- 6. Nursing seat enhancement at SZABMU and affiliated Colleges and collaboration with APPNA Merit
- 7. All examinations completed on time and results declared
- 8. Convocation 2020
- 9. First CHPE certificate course completed (International Faculty)
- 10. Allocation of land for SZABMU approved
- 11. Submission of Concept Paper for the SZABMU
- 12. Artificial Intelligence in vascular disease approved by HEC worth 15 millions
- 13. Meetings academic council 6, ASRB 12, Syndicate 4, Senate 1
- 14. Cento gene MOU
- 15. Prime Minister Deliverance Unit (PMDU) 43% satisfaction with no super escalation
- 16. No. of publications done in 2020: 19
- 17. PCR COVID test done in 2020: 1000
- 18. No. of projects HEC: 3
- 19. Training of HCW (Health Care Workers) in PPE (Personal Protection Equipment): 15000
- 20. Specialists (MS, MD, MDS) produced in 2020: 14

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### Preface

The year 2020 in the light of the pandemic has been one that has rocked the world and yet given the medical community a chance to rise above its norms and commit to service, dedication and philanthropy beyond its line of duty.

Our University despite being in its early years of establishment rose to the challenge and has worked relentlessly in these pressing times. SZABMU has continued its services not only in teaching, but also research and patient care.

2020 saw the formulation of the service rules which had lacked since 2013. PhD, MPhil and DPT programs have been commenced making it one of the few medical universities in Pakistan with these programs. An integrated curriculum has been introduced at all levels ensuring uniformity of teaching, training and assessment.

This year saw several significant landmarks like the establishment of the School of Dentistry, which is a project of SZABMU funded by HEC. PMC has visited and recognized the School of Dentistry. Land for the University Campus of SZABMU has also been promised and we are awaiting good news on that front.

SZABMU has introduced small group discussions and problem based learning. This student centered teaching approach will help medical students learn leadership and responsibility as well as skill from the very beginning. For postgraduate we are moving towards competency and outcome-based teaching systems. Instead of viva focus is on TOACS, OSPE and structured evaluation of short and long cases. Other modernizations like work-place based or on-site evaluation are also introduced.

The university has the unique privilege of being the first Public Sector University for getting the accreditation from American Heart Association (AHA) for BLS. The DME has trained 600 postgraduate and undergraduate students. The university plans to get the accreditation for ACLS and PALS soon.

Our faculty and students have been at the forefront fighting COVID 19 in the isolation wards and Intensive Care Units. They have not only been providing care to these patients but have been actively involved in clinical trials and research. Our faculty has also trained more than 10,000 healthcare workers in the appropriate use of PPE in a course backed by the WHO and ministry of Health.

A centre for telemedicine was established at SZABMU to help the public gain access to healthcare services and yet encouraging them to stay at home.

We are looking forward to laying the foundation stone for our University campus this year and starting a number of teaching programs including PhD in Dental sciences and Masters in Health Professionals Education



### Introduction

Shaheed Zulfiqar Ali Bhutto Medical University Islamabad was established through an Act of Parliament on 21st March 2013. The Vice Chancellor was appointed by the Chancellor – President of Pakistan, on the recommendation of Search Committee on 7th January 2014. The Pakistan Institute of Medical Sciences (PIMS) Islamabad is the constituent teaching hospital of Shaheed Zulfiqar Ali Bhutto Medical University. PIMS is country's premier Post Graduate Medical Centre since 1988. In March 1990 CPSP also recognized institute programs for FCPS training. In 2004, PIMS was up-gradated to post graduate medical teaching institute by the Government of Pakistan. The Shaheed Zulfiqar Ali Bhutto Medical University offers structured Residency training programs in 32 disciplines of Medicine, Surgery & Dentistry. Moreover, M. Phil. and Ph. D. programs are being offered in Basic Medical Sciences as well.

The University is offering structured residency training programs in clinical disciplines which are exit qualification equivalent to international medical qualifications like FRCP, MRCP, Diplomat American Boards etc. and is fully registered with PMC. After obtaining these qualifications, doctors are eligible to be appointed as medical faculty/consultant in hospitals. Federal Medical & Dental College is the constituent Medical College of Shaheed Zulfiqar Ali Bhutto Medical University that offers MBBS Program. The University has College of Nursing, School of Nursing and College of Medical Technology where graduate and post graduate courses are offered. SZABMU is also offering PhD program in Molecular Biology.

There are 4 medical and dental colleges affiliated with the SZABMU including a public sector Federal Medical and Dental College (FMDC). So far four undergraduate (MBBS) batches have been awarded degrees by SZABMU. Each batch consists of 100 students.

Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU) — the only medical university of Islamabad is facing severe challenges, as it has neither any campus building nor has the required teaching faculty. With annual budget of Rs100 million, which it receives from Higher Education Commission (HEC), SZABMU is facing difficulty in hiring required faculty and building the university campus. The university requires at least 40 permanent faculty members but it only has 16. The first priority of the new management was to acquire land for purpose built state of the art university. PIMS administration has allocated 36 canals of land in the PIMS premises for the aforementioned purposes.

The Dental College affiliated with SZABMU will be started from January 2021 and first batch of 50 undergraduate (BDS) students will commence the following year. Currently 131 visiting faculty members from Pakistan Institute of Medical Sciences (PIMS) are engaged in teaching the medical students. However, the University needs to complete the required quota of faculty members to run the institute.



### **Our Mission**

The mission of Shaheed Zulfiqar Ali Bhutto Medical University is to be a premier research-intensive medical university that will educate medical students, paramedics, and postdoctoral fellows in accordance with international professional standards.

### **Our Goals**

To advance national health through teaching, research and service; foster innovation, to build and bring about fresh, creative solutions that address the health needs of the Pakistani society. To attract the best and brightest minds and train them as future national and international leaders, and in setting standards of excellence among faculty, staff and to recruit, retain, nurture and promote those who represent the best in the country.



### **Registrar Office**

### **Results Achieved During 2020**

Following is the year-wise students enrolled in Postgraduate programs.

So far total 802 students enrolled in postgraduate program and currently July- August, 2019 postgraduate enrollment session is ongoing.

Academic Year 2020	MD	MS	M.PHIL	MDS	Total
	195	183	82	18	802

### Postgraduate Residents Registration

Discipline	Academic Session	Total No. of Postgraduate Residents	Institute
MD	2020	30	
MS	2020	37	Shaheed Zulfiqar Ali Bhutto Medical
MDS	2020	02	University, Islamabad
M.Phil	2020	05	

### Students Registered In Constituent Colleges/ Institutions

Discipline	Academic Session	Total No. of Medical Students	Institute
MBBS	2019	116	Federal Medical and Dental College

Discipline	Academic Session	Total No. of Nursing Students	Institute
BSC post RN	2020	36	School of Nursing
BSN Generic (04 Year)	2020	50	(PIMS)



### Students Registered In Affiliated Colleges/ Institutions

Discipline	Academic Session	Total No. of Students Registered	Institute
MBBS	2019	101	
BDS	2019	51	
BS-MLT	2020	23	Islamabad Medical
DPT	2020	21	& Dental College, Islamabad
MSC	2020	03	
MDS	2020	02	
BS Post-RN	2020	30	Islamabad College of Nursing, Islamabad

Discipline	Academic Session	Total No. of Students Registered	Institute
MBBS	2019	100	
BDS	2019	47	Rawal College of
BS Post-RN	2019	38	Nursing, Islamabad
BS Generic	2019	26	

Discipline	Academic Session	Total No. of Students Registered	Institute
	2019	30	College of Medical Lab
BSc MLT	2020	30	Technology, NIH

### Key activities carried out 2020

- Preparation of student's personal file for record keeping and data handling
- Registration of students in postgraduate and undergraduate program with affiliated colleges/institutions



### Key Performance Indicators & Linkages With Budget Allocated To Reflect Performance

The Senior Management of SZABMU will use a variety of performance metrics from several broad categories to gauge performance such as:

- Develop continued expertise in strategic enrollment management
- Provide excellent service and consultation to relevant stakeholders and affiliated academic institutions
- Foster a culture of data-informed decision-making concerning division actions
- Support initiatives that contribute to promote retention and student success
- Value and embrace innovation, change, and entrepreneurial mindsets and approaches
- Auditable staff personal files
- Competitive admission and selection process of each student at the time of admission

### Way Forward/Future Plans & Goals

The mission of the Office of Admissions is to recruit, admit, and serve an eligible, diverse student population regionally, nationally, and internationally. It embraces the University's commitment to attain the quality of students who are able to matriculate and graduate.

### Meetings and Affiliation Section

### Meetings

As per Section 20 of the Act of Shaheed Zulfiqar Ali Bhutto Medical University, the followings are the Authorities of the University and the meetings conducted by the department is listed below

### Meetings held by the Department 2020

S.No	Meetings	Status 2020
1	Senate	01
2	Syndicate	04
3	Academic Council	05
4	Advanced Studies & Research Board	10



### **Constituent Institutes**

A. Federal Medical & Dental College (FM&DC)

B. College of Nursing (CoN)

### Affiliations

### In term of Section 5 (2) of SZABMU Act 2013,

All medical colleges and health institutions whether in public or private sector excluding the constituent colleges of a university, located within the Islamabad Capital Territory, whether affiliated with any other university, examination board or medical faculty, notwithstanding anything claimed in any other law for the time being in force, shall affiliate with the university within such period and on such condition as may be prescribed.

### In the light of above mentioned act the following medical colleges/paramedical institutes have been accorded the affiliation

### **Constituent Medical & Dental Colleges**

- a) Federal Medical & Dental College
- b) School of Dentistry

Affiliated Medical & Dental Colleges

- a) Rawal Medical & Dental College
- b) Islamabad Medical & Dental College
- c) HBS Medical & Dental College

S.No	Colleges/Institute	Program offered
1	Federal Government Poly Clinic	<ul> <li>MD. Internal Medicine</li> <li>MD. Pediatrics</li> <li>MD. Histopathology</li> <li>MS. Surgery</li> <li>MS. ENT</li> <li>MS. Urology</li> <li>MS. Orthopedic Surgery</li> <li>Diploma. Gyne/Obstt.</li> <li>M.SC. Peridontology</li> <li>BS Generic</li> </ul>

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2	College of Nursing, PIMS	Post RN     R
		BS. Generic
3	College of Medical Lab Technology, NIH	• BS.MLT
4	National Institute of Rehabilitation Medicine	Diploma in Speech & language     Therapy program
5	Capital Development Authority Hospital	<ul> <li>MS. General Surgery</li> <li>MS. Orthopedic Surgery</li> <li>MS. ENT</li> <li>MD. Paeds Medicine</li> <li>MD. Radiology</li> <li>MD. Internal Medicine</li> </ul>
6	Rawal Institute of Health Sciences	<ul> <li>BSN- Generic</li> <li>POST RN-BSN</li> <li>DPT</li> <li>MDS. Operative Dentistry</li> <li>MDS.OMFS</li> <li>MDS. Orthodontics</li> <li>M. Phil. Oral Biology</li> <li>M. Phil Oral Pathology</li> <li>M.SC. Periodontology</li> <li>MS. Urology</li> <li>M. Phil. Anatomy</li> <li>M. Phil. Chemical Pathology</li> <li>M. Phil. Microbiology</li> <li>M. Phil. Biochemistry</li> <li>M. Phil. Biochemistry</li> <li>M. Phil. Pharmacology</li> </ul>
7	Islamabad Medical & Dental College	<ul> <li>M. Phil. Community Dentistry</li> <li>MDS. Orthodontics</li> <li>MDS. Operative Dentistry</li> <li>MSC. Periodentology</li> <li>MSC. Oral Medicine</li> <li>MDS. OMFS</li> <li>M.Phil Anatomy</li> <li>M.Phil. Physiology</li> <li>DPT</li> <li>BS.MLT</li> <li>BS.Generic</li> <li>Post RNBSN</li> </ul>
8	Yusra Institute of Rehabilitation Sciences	<ul> <li>SLP (speech &amp; Language Therapy)</li> <li>DPT</li> </ul>



9	Bashir Institute of Health Sciences	<ul> <li>BS. Medical Lab Technology</li> <li>BS. Dental Technology</li> <li>BS. Surgery Technology</li> <li>BS. Anesthesia Technology</li> <li>BS. Radiology Technology</li> <li>BS. Emergency &amp; ICU</li> <li>BS. Optometry Technology</li> <li>BS. Cardiology</li> <li>BSN- Post RN</li> <li>DPT</li> </ul>
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### **Administration Department**

As per Schedule 2(g), Section 09 of the Act of Shaheed Zulfiqar Ali Bhutto Medical University, the followings are the Authorities of the University and the meeting conducted by the department is listed below

S.No	Meetings	Status
1	Selection Board	11
2	Selection Committee	01
3	ER&B	12

The University recruited highly qualified faculty including Professors, Associate Professor, Assistant Professor and Demonstrators in School of Dentistry.

Sr. No. Name Designation

Sr. No.	Name	Designation
1.	Dr. Bilal Ahmed	Professor of Prosthodontics
2.	Dr. Khalid Niaz	Professor of Pharmacology
3.	Dr. Owais Khalid Durrani	Professor of Orthodontics
4.	Dr. Shahab Ud Din	Professor of Sciences of Dental Materials
5.	Dr. Shakeel Kazmi	Associate Professor of Oral Biology
6.	Dr. Yasir Dilshad	Associate Professor of Periodontology
7.	Dr. Ammar Pasha	Assistant Professor of Orthodontics
8.	Dr. Anber Saleem	Associate Professor of Anatomy
9.	Dr. Saeed Mustafa	Assistant Professor of Orthodontics



10.	Dr. Farooq Ahmad Chaudhary	Assistant Professor of Community Dentistry
11.	Dr. Hasan Mujtaba	Assistant Professor of Oral Pathology
12.	Dr. Asma Naz	Associate Professor of Prosthodontics
13.	Dr. Fahd Aleem	Assistant Professor of Oral & Maxillofacial Surgery
14.	Dr. Nouman Noor	Associate Professor of Operative Dentistry
15.	Dr. Afsheen Mansoor	Assistant Professor of Sciences of Dental Materials
16	Dr. Shirin Amir	Research Associate

### Examinations

### Introduction

- Examination system is an integral component of any learning process. The sanctity and confidentiality of examination department is core attribute to it.
- The Examination Department has developed a very transparent and efficient examination system based on current in vogue system practiced worldwide.
- Organizing the examinations for 21 disciplines in a record period of six weeks.

Total Thesis	Approved by AS & RB	In process with Mi-nor/	In process for
Submitted		Major Corrections	evaluation
345	270	30	45

### Convocations

Since its inception in 2013, Shaheed Zulfiqar Ali Bhutto Medical University Islamabad has successfully held its two convocations.

Its First Convocation was held on August 13, 2014, the 2nd Convocation was held on March 07, 2017 and 3rd Convocation on February 06, 2020.

President, Islamic Republic of Pakistan was the chief guest at all three the Convocations.

249 graduates were awarded degrees in the 3rd convocation held on 6th February 2020

### **Degree Section**

MBBS	BDS	DPT	Allied Health Sciences	Nursing	Total
1079	323	02	45	244	1693



Total number of Thesis of MS/MD/MDS /M.PHIL submitted in the examination department in year 2020

Total Thesis Submitted	Approved by AS & RB	In process with Minor/Major Corrections	In process for evaluation
71	35	16	20

# **POST GRADUATE EXAMINATION**

Candidates appeared in different Postgraduate examinations of the University in year 2020

Total	208
PGD(SLT)	15
MTA	77
M.Phil	10
MSc	01
MDS	60
MS	45
MS	51
Exam Session	Sep/Oct 2020

# EXAMINATIONS MD / MS / MDS PART - 1

Candidates appeared in MD/MS/MDS part - 1 Examination of University in year 2020

Exam Session	MS	MS	MDS	Total
November, 2020	213	256	68	537

# **UNDERGRADUATE EXAMINATIONS IN YEAR 2020**

Candidates appeared in Undergraduate Examination of University in year 2020

UNDERGRADUATE DEGREE AWARDED AFFILIATED COLLEGES & INSTITUTES IN YEAR 2020

Degree issued to Undergraduate Students of Constitute & Affiliated Institutes of University in year 2020

TOTAL	613
<b>BSC NURSING</b>	128
BSC MLT	40
DPT	02
BDS	20
MBBS	373
Year	2020



### Treasury

Controls and manages University expenditure/funds, their proper utilization, ensuring strong internal controls, efficient financial reporting in compliance with laws, rules/regulations and government instructions are all tools/checks being exercised in achieving the ultimate outcomes of better education facilities in the field of Medical Sciences. Hence, this office ensures timely submission of accounts and utilization reports to the Vice Chancellor/Syndicate and Higher Education Commission for decision making by the Vice Chancellor/Syndicate, in compliance with the Shaheed Zulfiqar Ali Bhutto Medical University Act no. XV of 2013.

### Details are as follows:-

- i. Got approved accounts of the University for the Financial Year 2014-2019 and Budget Estimates for the Financial Year 2020-21 from the Senate of the University.
- Presented accounts for the Financial Year 2019-20 and budget estimates for the current Financial Year 2020-21 in the 13th Finance and Planning Committee meeting held on 28th July 2020 and also in the 16th meeting of the syndicate held on 6th August 2020.
- iii. The Treasurer Office submitted the Quarterly Utilization Reports to the HEC with the approval of the Competent Authority.

### Government / HEC Additional Grants:-

- i. HEC allocated a COVID-19 grant to the SZABMU amounting to Rs. 10.000 million during the Financial Year 2019-20.
- ii. The Treasurer's Office has received an additional grant of Rs. 5.000 million from HEC as recurring grant for School of Dentistry.
- iii. The Treasurer's Office, SZABMU disbursed the need based scholarship program grant amounting to Rs. 936,000/- to the MBBS students of the University belonged to far flung areas.
- Vii. Treasurer's Office has received a project grant of Rs. 21.400 million from HEC during the Financial Year 2019-20.
- The core function of pre-audit promotes and strengthens accountability and governance practices. So
  this office applies pre-audit checks / controls in the University for ensuring transparency, time value for
  money and economy in making public expenditure and University operations.



- 2. This office maintains appropriate Liaison with external audit (Directorate General Audit, Federal Government, Directorate General, Audit Works (Federal, Islamabad) and Internal Audit apparatus in order to streamline functioning of the University.
- 3. It also works hard to improve/minimize timelines of all financial transactions.
- 4. Being Financial Manager, the Treasurer's Office renders advice on financial matters to the Vice Chancellor/Syndicate/Finance and Planning Committee and all the wings of the University.
- 5. The Treasurer's Office works hard to improve liaison/better coordination between departments of the University for Quality Assurance and achieving best standards of the University's core function of imparting better medical education

The Details of Federal Government Grant, Own Resources and Expenditures for the last six Financial Years are as under:-

Particulars	2014-15 (Rs. In Millions)	2015-16 (Rs. In Millions	2016-17 (Rs. In Millions	2017-18 (Rs. In Millions	2018-19 (Rs. In Millions	2019-20 (Rs. In Millions
HEC Grants	25.000	52.693	90.000	107.452	112.807	100.802
Supplementary Grant from HEC	-	-	-	-	-	15.080
Fees and Dues	49.467	87.338	106.786	98.803	95.122	125.846
Expenditure	72.915	83.558	98.110	160.482	143.348	146.174

The above table shows key indicators of the University's performance. As mentioned above, Shaheed Zulfiqar Ali Bhutto Medical University has gradually increased its own revenue (Fees & Dues) every year in addition to the number of Post Graduate students & Affiliated colleges registrations. Same rise has been achieved in the HEC grant due to proper management of HEC financial grant.

Recently presented the new pay / package policy for the faculty / staff in the F&PC and syndicate meeting and convincingly got it approved by the fora.

The Treasurer has given invaluable input in making concept paper / PC-II for the building of the SZABMU and the same has been pursued at member planning HEC level and almost approved by the HEC for preparation of PC-I.



# ACADEMIC ACTIVITIES



### **Department of Medical Education**

Major Tasks Conducted by DME

### 1.Integration of curriculum

Integrated curriculum is initiated in all affiliated colleges of SZABMU.

Integrated Curriculum is revised in the year 2020. Assessment plan is revised to 100 % MCQ's .

Curriculum of the 4 year BDS and MBBS is revised.

### 2. American Heart Association affiliation of the University as Centre for Basic Life Support Training

600 students' undergraduates and post graduates are trained in basic life support courses.

### 3. Foundation Program of Emergency Medicine

Foundation Program of Emergency Medicine of 1 year initiated in collaboration with Royal College of Emergency Medicine.

30 students will be trained from PIMS and affiliated Colleges.

### 5. MHPE (Masters in Health Professions Education) program

A complete course outline with a written document is prepared by DME for initiation of 2-year program

### 6. Workshops

DME is in continuous process of holding faculty training workshops round the clock.

### 7. CME Activities

DME is holding CME accredited activities on daily basis throughout country.



American Heart Association (AHA) certified training of BLS at SZABMU with SOPS



### **Certificate in Health Professions Education**

SZABMU started the certificate course in HPE in July 2020 and due to the prevalent COVID- 19 condition all sessions were conducted online. 20 participants from all over the country were selected for the course. Extremely qualified faculty taught group of thoroughly professional students who needed this course for further promotions in their respective specialties. Renowned medical educationist from the Edgehill University UK took one of the online sessions and her feedback was excellent. The certificate course marked the first step towards the collaboration between the Edgehill University and Shaheed Zulfiqar Ali Bhutto Medical University.



Our international faculty includes:



Dr. Ayaz Abbasi

Consultant Accident and Emergency UK, International Adjunct Associate Professor



Prof Julie Michelle Bridson

Head of Post Graduate Medical Education Edge Hill University Medical School Faculty of Health and Social Care University of Edge Hill



### **Detail of MoU**

### Between

### Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU)

### and

### National/International Universities/Sister Organizations

### in the year 2020

Sr. No	MOU	Subject	Date
1.	MOU with National Tubercu- losis Control program	Training program for GPs.	04-12-2020
2.	MOU between SZABMU & UHS	Student Collaboration Programs (PG Education Program, AHA BLS Program, Irish Emergency Medicine Care, Molecular Biology)	02-11-2020
3.	MOU between International Cooperation Between Bir Ventures USA (IDEAGIST) and SZABMU	Training workshops under BIC	17-02-2020
4.	MOU between Jinnah Burn & Reconstructive Surgery Center Allama Iqbal Medical College , UHS & SAZBMU	Technical Cooperation In Stem Cell &Regenerative Medicine and Genetic Diseases	06-02-2020
5.	MOU between Jinnah Burn & Reconstructive Surgery Center Allama Iqbal Medical College, UHS, Maulana Shaukat Ali Road, Lahore & SZABMU	Technical Cooperation in Genet-ic Diseases and Regenerative Medicine	01-01-2020



### Memorandum of Understanding Between National TB Control Program and

### Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU)

NTP has developed an online training course on TB management to facilitate all health care providers to follow National Guidelines. The purpose of this MoU is to accredits this course with Shaheed Zulfiqar Ali Bhutto Medical University (PIMS) for the Continuous Medical Education (CME) hours

TB is one of the major public health problems in Pakistan, with the country ranking fifth among 30 TB highburden countries worldwide. Major progress towards TB control, however, was achieved after the revival of the National TB Control Program in 2001 when TB was declared a national public health emergency through the "Islamabad Declaration".

In 2018, the World Health Organization (WHO) estimated that there were 562,000 people who developed TB in Pakistan and 360000 were put on treatment with quality assured anti TB medicines and 94% were successfully treated, however the disease caused a total of 44,000 deaths. The 64% case detection informs that one third of the TB cases are not detected or notified to the National program missing 200,000 TB cases.

On 4th December 2020 MOU was signed between SZABMU and NTP by the worthy Vice Chancellor Prof. Tanwir Khaliq and NTP Manager Dr.Naseem Akhtar.





### Memorandum of Understanding

### Between

### University of Healh Sciences Lahore (UHS) and

### Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU)

The education of health professionals has a direct effect on improving human resources for healthcare in support of national priorities. Worldwide, health professions education has undergone a significant change during the past few decades. The focus has moved from a scientific and technical perspective to include a more practical and applied approach in the context of the social responsibility of medical schools and a commitment to the integration of teaching experiences and teacher development for day to day work.

In this respect collaboration between the two universities is intended in the following areas

### Article 1- Postgraduate education programs:

Collaboration with the Royal College of medicine UK for emergency medicine exchange programs. Trainees from two universities who want to pursue their careers in emergency medicine can be enabled to advance in their careers paths.

### Article 2-AHA BLS:

SZABMU being the first public sector university to get accreditation from the American Heart Association and status of International Training Center. Now we want UHS to be first training site of the ITC. Collaboration for ACLS, PALS and PEARS is in process.





### **Article 3-Irish Emergency Medicine Courses:**

Irish association for emergency medicine is already in collaboration with the UHS for different life support courses for promoting high standard of emergency care and research and training.

### Article 4-Molecular Biology:

The subject is approved by the HEC for the M.Phil. and PhD Program in Molecular Biology. Collaboration between the two universities for student exchange is planned.

### Genetic Center at SZABMU and PIMS in collaboration with Centogene

A meeting was held on 25th November 2020 in which the process of establishment of rare genetic center at Shaheed Zulfiqar Ali Bhutto Medical University and PIMS in collaboration with Centogene was initiated. In this regard we arranged for free genetic testing facility at PIMS for our undiagnosed patients with suspected genetic disorders. Professor Arndt Rolf visited Pediatric Department in November and we sent samples of 20 families i-e 60 samples and each sample costs around 1000 Euros. We have also received the results with more than 80% positivity.

Later on worthy vice chancellor met Dr. Ali Mustafa Tabish from Centogene to further discuss the collaboration. University is also interested in establishing department of Clinical Genetics with National and International collaboration where students can be enrolled in MPhil and PhD programs in medical genetics as Cento Academy under Centogene also provides training in clinical genetics. This will have enormous impact especially on a country like ours where genetic diseases are very prevalent due to high consanguinity. We do not have much knowledge about the mutations of our population due to unavailability of such facilities. Another important aspect is the economic burden of these diseases to the country. However many of these diseases are treatable or preventable with positive impact not only on the family but society as a whole. Genetic testing will also help clinicians regarding patient counselling and the patient who give consent can be registered in genetic therapeutic trials as well which will be a service to humanity.

Our next meeting with Professor Rolf is expected in first week of March where we will further discuss the final steps in establishing the rare diseases center at SZABMU/PIMS, Islamabad.





### National Breast Cancer Awareness Program at Presidency

On October 1st, 2020, Mrs. Samina Alvi hosted the event and formally inaugrated the National Breast cancer awareness campaign from the presidency. The Chief Guest, President Dr. Arif Alvi endorsed the First Lady's agenda and appreciated the combined efforts of Health care workers. Dr. Arif Alvi, President Islamic Republic of Pakistan appreciating the combined efforts of public and private sectors for mass awareness against breast cancer.





Breast Cancer Awareness Session on 2nd October, 2020 at Serena





### Breast Cancer Awareness Event Held in Governor House, Peshawar on 5th October, 2020



### Breast Cancer Awareness Program at Federal Breast Cancer Screening Centre (PIMS)

Federal Breast Cancer Screening Centre (FBCSC) is the first ever public sector facility located inside the Pakistan Institute of Medical Sciences (PIMS), Islamabad. On 7th October, 2020, First Lady, Mrs. Samina Alvi was invited for a visit to Federal Breast Cancer Screening Center as a part of Awareness campaign.





### Breast Cancer Awareness Walk in Fatima Jinnah Park, F-9

On October 8th, 2020, a walk for breast cancer awareness was arranged in F-9 park. Begum Samina Alvi participated as chief guest. A considerable number of lady health workers and nursing students also participated in the walk.





### Walk For Breast Cancer Awareness in NIH on 9th October, 2020





### **University Breast Cancer Awareness and Prevention Forum**

Vice Chancellors, Pro Vice Chancellor and Focal Persons of all major universities of Rawalpindi and Islamabad gathered to evolve a joint strategy and model of awareness and screening of breast cancer. Meeting of this University Collaborative Forum was held on 31st Oct. 2020.

Vice Chancellors and representatives of following universities were present in meeting.

- 1. Rawalpindi Medical University(RMU)Rawalpindi
- 2. Shaheed Zulfiqar Ali Bhutto University (SZABU)Islamabad
- 3. Fatima Jinnah Women University (FJWU)Rawalpindi
- 4. ISRA University Islamabad
- 5. RIFFAH University Islamabad
- 6. Government College Women University Rawalpindi
- 7. National University of Medical Sciences (NUMS) Islamabad
- 8. COMSATS University Islamabad
- 9. Arid Agriculture University Rawalpindi
- 10. Allama lqbal Open University, Islamabad
- University collaborative forum will have following representatives.
- Prof. Dr Muhammad Ali— Chairperson
- Prof. Dr Saima Hamid Co- Chairperson
- Prof. Dr Tanveer Khaliq-Co- Chairperson
- Prof. Dr. Muhammad Umar Convener
- All universities will develop a database of women faculty, students and supporting staff for development of awareness program according to needs.
- A uniform standardized training module and structured awareness program will be designed for awareness and capacity building on detection of early breast cancer by RMU.
- All VCs of universities agreed for establishment of breast cancer awareness corner in respective university along with nomination of focal persons.
- Master trainer workshops will be conducted in RMU for capacity building on prevention and



early detection of breast cancer. It will be followed by a series of further workshops by master trainers in respective departments and universities.

- Universities with IT departments' e.g(COMSAT, Allama lqbalOpen University)will help to centralize the data and development of online awareness Program in collaboration with RMU.
- Development of national guidelines for prevention and early detection of breast cancer by University Collaborative Forum.
- After completion of first phase of breast caner awareness program in universities, a community awareness program will be launched.







### **E-Learning Global Initiative**

University from the platform of E-Learning Global Initiative invited the faculty of SZABMU to a live virtual online interactive session on the management of non-variceal upper Gastrointestinal bleeding" on 6th December 2020. The lecure was delivered by honorable Dr.Dr. David L Carr-Locke (MD, FRCP, FACG,MASGE, AGAF). Professor of Medicine, Weill Cornell Medical College Clinical Director The Center for Advanced Digestive Care, New York Presbyterian Hospital Past President ASGE, President-Elect, NYSGE.





### **Clinical Trial on COVID-19 Vaccine**

Department of Molecular Biology, Shaheed Zulfiqar Ali Bhutto Medical University Islamabad is going to start phase III trial of corona vaccine, once all necessary approval are obtained from DRAP. Both parties agreed to enroll 3000 volunteer for the trial. SZABMU is starting trial with Anhui Zhfei Longcom Biopharmaceutical Co., Ltd which is a non-state-run high-tech biopharmaceutical company in China. Considering the COVID-19 pandemic situation and the urgency of global demand for vaccines against Coronavirus, both parties are willing to work together and to initiate the phase III clinical trial of the Vaccine in the Territory as soon as possible. Zhifei Longcom will conduct a randomized, controlled, double-blind, phase III clinical trial("Phase III MRCT") on a global scale in accordance with the relevant Chinese laws and regulations, Zhifei Longcom intend to conduct human Clinical Trial in the Territory.

Vaccine" refers to a recombinant protein subunit vaccine, ZF2001, developed by Zhifei Longcom against COVID-19, which has been in phase I and phase II clinical trial in China.



### Hands on Training Workshop at SZABMU

In January 2020 a first of its kind 2 days hands on workshop was conducted on rotary Endodontics at Syndicate Room VC Secretariat SZABMU. The workshop was conducted by Prof. Dr. Saima Azam (HOD of Operative Dentistry Department IMDC). On the first day participants were given training on models and on second day participants were trained on patients according to the international protocols



### 3rd Convocation of SZABMU in Islamabad on February 6, 2020





### **Institute of Rehabilitation Sciences**

### **Program Offered:**

- Currently only Doctor of Physical Therapy (DPT) (10 semesters of 5 years)
- In future MS/MPhil Programs in Rehabilitation Sciences will be started.

### No of seats: 25

Total students currently in class: 24

Intake: per year

### Exams: per semester (2 semesters per year spring & Fall)

### Academic Sessions:

- Online classes are continued for 2nd semester and small groups classes were conducted in October but again shifted to online as per government instructions.
- Online sessions on world disability day 3rd December were conducted. .
- Final Exams will be in February 2021.
- New intake for current year is under process and will be finalized till February 2021.
- Online Session for international day of persons with disabilities was organized for students on 3rd December.
- After the first wave semester exams were conducted following the SOPs.

### Faculty Details: At institute

Name	Designation	Qualification
Dr. Hafiz Muhammad Manan Haider Khan	Assistant Professor	PhD (Rehabilitation sciences)
Dr Sairish sairien	Lecturer	DPT, MS CPPT

### **Visiting Faculty:**

- 1. Anatomy department Federal Medical and Dental College Islamabad.
- 2. Visiting faculty was hired for different subjects including Sociology, Islamic studies and English for 2nd semester.

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### **Department of Molecular Biology**

### Introduction

Ever since the creation of living beings on this planet, Man has struggled to understand Life. However, the phenomenon of Life has remained shrouded in mystery. As a consequence, a scientific concept of life has emerged that biological activity is the expression of information stored in DNA and its translation into RNA and proteins. The study of biologically active "molecules" is called "Molecular Biology". The challenge of applying innovative laboratory research to solve unique and specific problems of health and medicine requires the talents of soundly trained manpower which can define problems and devise strategies that will work in the local setting. In order to develop a researcher having "hands-on" experience of various molecular biological and stem cell techniques, training of manpower need to be carried out in local hospital situations to see how many things can go wrong and how to get around those hurdles and solve problems. Recognizing future needs in the health sector, the federal government has established Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU), as a premier medical teaching and research university. Besides teaching undergraduate and postgraduate courses in Health Sciences and Allied Subjects, the university, with the approval of Higher Education Commission, has initiated a regular M.Phil and Ph.D. program in Molecular Biology with a strong backup of basic medical research.

### M.Phil/PhD Program:

Department of Molecular Biology has approved M.Phill/PhD program from HEC, Pakistan. The first batch of six PhD and Eleven M.Phil research scholar is currently enrolled in the department.

### PhD Research Scholars:

- 1. Muhammad Asad Usmani
- 2. Amna Aurangzaib
- 3. Muhammad Hassaan Ali
- 4. Nabila Kausar
- 5. Themina Akhtar
- 6. Mehwish Majeed Bhatti

### M.Phil Research Scholars:

- 1. Anita Safi
- 2. Ayesha Rukan
- 3. Fatima Jaweria
- 4. Hamid Hanif

- 5. Muhammad Tahir
- 6. Usama Khalil Qadri
- 7. Yusra Kayani
- 8. Ghulam Abuzar
- 9. Muammad Saleem
- 10. Maira Fatima
- 11. Nadir Hussain

### **Ongoing Research Activities**

### 1. Genetic screening and testing of COVID-19 Patients.

Under the grave situation of COVID pandemic, Department of Pathology/Molecular Biology is dedicated to providing testing facility (COVID detection and Biochemical tests) to Corona suspected and positive patients. We have graciously received a Point of need machine (POCKIT Central, Genereach), from WHO which is functional in our department now. Due to its capacity of only 8 tests/reaction, we are currently using the POCKIT Central for detection of COVID in dead bodies and SZABMU/PIMS employees only. We are receiving 50 samples on a daily basis and able to process 18-20 samples/day. PIMS hospital is now bearing the highest load of COVID-19 patients, whose tests are required on a daily basis.

For increasing our diagnostic capacity on a larger scale, we have established collaboration between World Health Organization (WHO), National Institute of Health, Department of Molecular Biology, SZABMU and Department of Pathology, PIMS Hospital for establishment of Molecular Biology Lab for infectious Disease in Department of Molecular Biology, SZABMU. This will not only increase COVID-19 detection capacity but also help in reducing sample reporting time as well as in implementation of effective disease control strategies.

The recent COVID-19 pandemic has brought a number of deficiencies regarding its early diagnoses to light. It is imperative to overcome the big lacuna in patient workup which will result in Pakistan becoming one of the top countries with COVID-19 if it goes undeterred. The proposed project will fuse X-ray and CT scan images with AI technology in order to formulate a diagnostic tool which is sustainable, available for the detection and subsequent management of COVID-19 patients.

### 2. Genetic screening and testing of Leukemia/ Breast Cancer Patients.

Blood cancer is one of the most aggressive and widespread malignancies with frequent incidence in both children and adults, characterized by persistent genetic transformations. At present, due to the high cost of foreign kits and expensive techniques like FISH, classification and diagnosis of leukemia patients as recommended by WHO is very laborious and uncertain. With skilled manpower and availability of adequate funding from HEC, in-house development of this testing facility is possible. The proposed project will capture the rapidly evolving in-vitro diagnostic landscape and assist patients and clinicians in need of the



required services at the Department of Pathology, Shaheed Zulfiqar Ali Bhutto Medical University, PIMS hospital.

Breast cancer is now turning out to be a looming epidemic with highest mortality rates among women in Pakistan. An estimated 5–10% of breast cancer incidence is attributable to inherited germline mutations in BRCA1 and BRCA2 genes. However, prevalence of germline mutation of TP53 in early-onset breast cancer Pakistani patients is still unknown. The planned study will identify novel germline TP53 mutations in BRCA1 and BRCA2 negative breast cancer patients having early disease onset.

### 3. Genetic Diseases Research Group:

The overall objective is to reveal underlying genetic causes of hearing impairment (HI), vision impairment (VI) and intellectual disability (ID) in Pakistani families. Consanguineous families present a rich resource for the identification of novel genes and pathogenic mutations to help in elucidating the molecular and cellular pathways leading to the onset of genetic diseases. Major focus is on autosomal recessive mode of inheritance. The consanguineous marriage pattern along with unique demography in the regions has significant implications for increasing the prevalence of recessive genetic disorders. The methodology involves collection of blood samples from affected as well as non-affected siblings, parents and grandparents of enrolled families and recording of complete clinical phenotype of the affected individuals. DNA is isolated and subjected to linkage analysis, Sanger sequencing and/ or exome sequencing for the identification of novel pathogenic variants. So far more than fifty novel genes causing intellectual disabilities, hearing impairment and blindness has been identified. These findings have been published in high impact factor journals. Newly discovered genes/gene mutations are functionally characterized by developing protein models using different bioinformatics tools. Knockout animal models are generated to study the functions of newly identified genes. Clinical and biochemical tests are done to establish the phenotype-genotype correlation. Carrier screening and genetic counselling is offered to the affected families.

### 4. Stem Cells Research Group:

We have established protocols for stem cells isolation. we can culture stem cells from different sources like adipose tissue, bone marrow, umbilical cord etc.

Recently we developed culture and prepared Mesenchymel stem cells from umbilical cord for therapeutic inventions of clinical anomalies, including COVID-19 critical patients.

In our department Dr. Muhammad Rauf Ahmed is prepared skin substitute (Acellular Dermal Matrix). Animal trials and first phase clinical trials on ten patients have been completed. Now we are going to patent this skin substitute. We prepared cells spray for faster skin wound healing. Cells spray is prepared by patient 1 to 2 cm square skin biopsy.

### **Research Project:**

1. Functional Characterization of two Novel Intellectual Disability genes, *DCTN2* and *METTL5*.

Funded by HEC Pakistan

PI: Dr Mohsin Shahzad



- Prevalence of TP53 germline mutations in Breast cancer affected patients of Pakistan
   Funded by HEC Pakistan
   PI: Dr Syeda Kiran Riaz
- Unraveling the genetic molecular landscape of high grade gliomas in Pakistani patients
   Funded by HEC Pakistan
   PI: Dr Saboora Waris
- 4. Development of Artificial Intelligence based CADx system for rapid diagnosis of COVID-19 patients using Chest X-Ray (CXR) and Computed Tomography (CT) scans alongside RT-PCR

Funded by PSF Pakistan

### Co-PI Dr Syeda Kiran Riaz

### **Research Publications:**

Department has published 17 research article in high impact factor journals with accamulating impact factor of more than 75.

- 1. Ali M, Khan SY, Rodrigues TA, Kabir F, Jiao X, Irum B, Rauf B, Francisco T, Khan AA, Naeem MA, Assir MZ, Ali MH, Shahzad M, Riazuddin S, Akram j, Akram SJ, Riazuddin S, Abu-Amero KK, Robinson ML, Baes M, Azevedo JE, Hejtmancik JF, Riazuddin SA (2020). A missense allele of PEX5 is responsible for the defective import of peroxisome targeting signal 2 (PTS2) cargo proteins into peroxisomes. Accepted. Hum Genet. (Impact Factor: 5.743).
- 2. Badar W, KhanMA, Mehmood A, Latief N, Iqbal T, Assir MZK, Saleem MA, Rauf M (2020). Combination of preconditioned ADMSCs and Platelet Rich Plasma improves the repair of osteoarthritis in Rat. **Regenerative Medicine. (Impact factor 2.93)**
- Khan SY, Ali M, Lee MW, Ma Z, Biswas P, Khan AA, Naeem MA, Riazuddin S, Riazuddin S, Ayyagari R, Hejtmancik JF, Riazuddin SA (2020). Whole genome sequencing data of multiple individuals of Pakistani descent. Sci Data. 2020 Oct 13;7(1):350. PMID: 33051442, PMCID: PMC7555865 DOI: 10.1038/s41597-020-00664-2 (Impact Factor: 5.541).
- 4. Tona R, Lopez IA, Fenollar-Ferrer C, Faridi R, Anselmi C, Khan AA, **Shahzad M**, Morell RJ, Gu S, Hoa M, Dong L, Ishiyama A, Belyantseva IA, Riazuddin S, Friedman TB (2020). Mouse Models of Human Pathogenic Variants of TBC1D24 Associated with Non-Syndromic Deafness DFNB86 and DFNA65 and Syndromes Involving Deafness. **Genes (Basel)**. 2020 Sep 24;11(10):1122. doi: 10.3390/genes11101122. (Impact Factor: 3.759).
- Zafar S, Shahzad M, Rafaqat I, Yousaf A, Shaikh RS, Akram J, Ahmed ZM and Riazuddin S (2020). Novel mutations in CLPP, LARS2, CDH23, and COL4A5 identified in familial cases of prelingual hearing loss. Genes (Basel) 2020 Aug 22; 11(9): E978. doi: 10.3390/genes11090978. (Impact Factor: 3.759).
- Booth KT, Ghaffar A, Rashid M, Hovey LT, Hussain M, Frees K, Renkes EM, Nishimura CJ, Shahzad M, Smith RJ, Ahmed Z, Azaiez H, Riazuddin S (2020). Novel loss-of-function mutations in COCH cause autosomal recessive nonsyndromic hearing loss. Hum Genet. doi: 10.1007/s00439-020-02197-5. Online ahead of print. PMID: 32562050 (Impact Factor: 5.743).
- 7. Iqbal H, Khan SY, Zhou L, Irum B, Ali M, Ahmed MR, Shahzad M, Ali MH, Naeem MA, Riazuddin



**S**, Hejtmancik JF, **Riazuddin S**A (2020). Mutations in FYCO1 identified in families with congenital cataracts. **Mol Vis**. 28; 26:334-344. eCollection 2020.PMID: 32355443. (**Impact Factor: 2.174**).

- Scala M, Mojarrad M, Riazuddin S, Brigatti KW, Ammous Z, Cohen J, Mansour HH, Shahzad M, Riazuddin S, Stanley V, Eslahi A, Cho MT, Mohamed H, Comi A, Poskitt L, Salpietro V, Genomics QS, Mokry JA, Williams KB, Emrick LT,Fan Xia F,Waberski MB, Zaki MS, Gleeson J ,Puffenberger E, Houlden H, Maroofian R (2020). RSRC1 loss-of-function variants cause mild-to-moderate autosomal recessive intellectual disability. BRAIN. 143(4):e31 (Impact Factor: 11.814)
- Scala M, Chua GL, Chin CF, Alsaif HS, Borovikov A, Riazuddin S, Riazuddin S, Manzini MC, Severino M, Kuk A, Fan H, Jamshidi Y, Toosi MB, Doosti M, Karimiani EG, Salpietro V, Dadali E, Baydakova G, Konovalov F, Lozier E, O'Connor E, Sabr Y, Alfaifi A, Ashrafzadeh F, Striano P, Zara F, Alkuraya FS, Houlden H, Maroofian R, Silver DL(2020). Biallelic MFSD2A variants associated with congenital microcephaly, developmental delay, and recognizable neuroimaging features. Eur J Hum Genet. PMID: 32572202, PMCID: PMC7576150, DOI: 10.1038/s41431-020-0669-x 2020 Nov;28(11):1509-1519. (Impact Factor: 3.657)
- Saleem A, Waris S, Ahmed T, Tabassum R (2020). Biochemical characterization and molecular docking of cloned xylanase gene from Bacillus subtilis RTS expressed in E. coli. Int J Biol Macromol. 2020 Dec 9; S0141-8130(20)35159-X. doi: 10.1016/j.ijbiomac.2020.12.001. Online ahead of print. PMID: 33309670 DOI: 10.1016/j.ijbiomac.2020.12.001 (Impact Factor: 11.814)
- 11. Polla D, Fard MLF, Tabatabaei Z, Habibzadeh P, Levchenko OA, Nikuei P, Makrythanasis P, Hardenberg S, Schuurs-Hoeijmakers JHM, Shahzad M, Fatima F, Fatima F, Kaat LD, Bruggenwirth HT, Fleming LR, Condie J, Ploski R, Pollak A, Pilch J, Demina NA, Chukhrova AL, Sergeeva VS, Venselaar H, Masri AT, Hamamy H, Santoni FA, Linda K, Ahmed ZM, Kasri NN, de Brouwer APM, Bergmann AK, Hethey S, Ansar M, Riazuddin S, Riazuddin S, Silawi M, Ruggeri G, Pirozzi F, Eftekhar E, Sheshdeh AT, Bahramjahan S, Mirzaa GM, Lavrov AV, Antonarakis SE, Faghihi MA, van Bokhoven H (2020). Biallelic variants in TMEM222 cause a new autosomal recessive neurodevelopmental disorder. Accepted. Genetic in Medicine. (Impact Factor: 8.904)
- 12. Ali M, KhanSY, Rodrigues TA, Kabir F, Jiao X, Irum B, Rauf B, Francisco T, Khan AA, Naeem MA, Assir MZ, Ali MH, Shahzad M, Riazuddin S, Akram J, Akram SJ, Riazuddin S, Abu-Amero KK, Robinson ML, Baes M, Azevedo JE, Hejtmancik JFand S. Amer Riazuddin (2020). A missense allele of PEX5 is responsible for the defective import of peroxisome targeting signal 2 (PTS2) cargo proteins into peroxisomes. Accepted Human Genetics. (Impact Factor: 5.743)
- Mushtaq M, Chaudry SS, Sheikh AK, Khan N, Khattak A, Akbar A, Tanwani AK, Khaliq T, Malik MFA, Riaz SK (2020). Comparison of different molecular subtypes with 14% Ki-67 cut-off threshold in breast cancer patients of Pakistan- An indication of poor prognosis. Archives of Iranian Medicine. Accepted (Impact factor: 1.0)
- 14. Ali S, Chaudry SS, Khan AQ, Shiekh AK, Tariq J, Tariq M, Nazli S, Khaliq T, **Riaz SK** (2020). Dynamics of hemogram and biochemical parameters in COVID-19 patients and their implication a single center prospective study in tertiary care hospital Islamabad, Pakistan. International Journal of Laboratory Hematology. **Accepted (Impact factor: 2.14)**



- Azmat H, Faridi J, Habib HM, Bugti UJ, Sheikh AK, Riaz SK (2020). Correlation of B-Cell Lymphoma 2 (Bcl2) Immuno-Expression in Invasive Carcinoma of Breast, No Special Type (NST) with Hormone Receptor Status, Proliferation Index and Molecular Subtypes. Journal of Cancer Research and Therapeutics. Accepted (Impact factor: 1.3)
- 16. Fatima Z, **Riaz SK**, Khan JS, Haq F, Malik MFA (2020). Dysregulated Claudins Expression Significantly Effect Breast Cancer Disease Progression. Journal of Cancer Research and Therapeutics. **Accepted** (**Impact factor: 1.0**)
- 17. Tanveer K, Fatima A, Huma Z, Batool M, Awan HM, Khan JS, **Riaz SK**, Haq F, Malik MFA (2020) Association of miR-335-5p loss and GLI1 increased expression with Breast Cancer Prognosis. Archives of Iranian Medicine. **Accepted. (Impact factor: 1.3)**
- 18. Khawja H, Fazal N, Yaqub F, Rauf MA, Yousaf A, Latief N: Protective and proliferative effect of Aesculus indica extract on stressed human adipose stem cells via downregulation of NF-?B pathway. Asian Pacific Journal of Tropical Medicine
- 19. Imran A; Butt H; Mehmood A; Ahmed MR; Ilyas A; Ramzan A, Riazuddin S. Curcumin Preconditioning Protects Stem Cells Against Hyperglycemia In Vitro. Life Sciences.







# **School of Dentistry**

# **About School of Dentistry**

School of Dentistry (SOD) is a constituent College of, Shaheed Zulfiqar Ali Bhutto Medical University. Sponsored and endorsed by the prestigious Higher Education Commission, SOD is the first public sector Dental College established in the Capital of Pakistan. SOD comprises of two components:

**1. The Dental College** – having the capacity to induct 100 students for BDS program at undergraduate level. In addition, it has the makings to run successful postgraduate courses in MPhil, MDS, FCPS and PhD.

**2. The Dental Hospital** – State of the art facility comprising of 125 Dental chairs and 2 fully equipped Operation Theaters, expected to treat more than 15000 patients to start in 1st year of its establishment. It has a ward capacity separately for males, females and children.

# School of Dentistry Project

The project of School of Dentistry, Shaheed Zulfiqar Ali Bhutto Medical University, Islamabad, was approved on 31st March, 2015. As per PC - I date of commencement was 15th July, 2015 and completion of project as per PC- IV is 30th June, 2020.

The account of achievements for the year 2019-2020 associated with project completion followed by full functioning is as given below.

#### Civil works and furnishing completed

As stated in the PC-IV furnishing of building with equipment, materials and basic furniture was to commence immediately after completion of the project. Keeping this in view civil works and procurement process commenced simultaneously. Tender notice for procurement of dental equipment, materials, and building HVAC system, networking systems, security system, electricity and miscellaneous items were published in national newspapers and tenders allotted to suitable vendors by June 2020.

As of date, the procurement, installation and functioning of equipment, instruments and materials is complete. Further, the civil works have completed 100%. The particulars of which are as follows:

# **Civil Works**

- 1. Electricity and gas supply connection installed and charged
- 2. Elevators installed, tested and functioning
- 3. Firefighting system installed and functioning
- 4. Connection of HVAC System completed
- 5. Computerization and Networking system installed, tested and functioning
- 6. Furniture & fixture materials procured



# Equipment, Instruments and material procurement, installation and functioning

- 1. 125 Dental units and their accessories are installed and functioning properly
- 2. Technical machinery and equipment is procured, installed and operational under the following domains
  - a. Radiology equipment
  - b. Operation theater equipment
  - c. Laboratory equipment
  - d. CAD/CAM
  - e. General equipment
- 3. Complete set of dental instruments acquired and distributed to concerned departments.
- 4. Instrument and materials directory is regularly maintained and is completely updated.
- 5. Materials and disposables procured as per the PMC requirement of doctors, patients and students.

With the completion of civil works, procurement, installation and functioning of equipment, instruments and materials, School of Dentistry is established and operational with following domains:

- 1. Basic sciences departments
  - a. Oral pathology
  - b. Community dentistry
  - c. Science of dental materials
  - d. Oral biology
  - e. Anatomy
  - f. Medical Education
- 2. Clinical departments
  - a. Operative dentistry
  - b. Oral and maxillofacial surgery
  - c. Prosthodontics
  - d. Orthodontics
  - e. Pediatric dentistry
  - f. Periodontology



- g. Oral medicine
- 3. Operation theater and wards
- 4. Lecture halls
- 5. Tutorial rooms
- 6. Laboratories
  - a. Advance laboratories
  - b. Phantom heads laboratories
  - c. Radiology department established
  - d. Efficient Central Sterile Services Department (CSSD) established with effective sterilization SOPs
  - e. Diagnostic Oral Pathology laboratory established

Currently all the departments, laboratories, clinics, two operation theaters along with wards and state of the art lecture halls and tutorial rooms are complete and fully functional and in usage.

#### **Faculty and Staff Induction**

The college has employed highly professional and qualified faculty and it is the result of this extremely dedicated faculty that college has developed a distinguished name amongst the renowned colleges of the twin cities.

This commenced simultaneously with the hiring of exceptionally skilled supporting staff, which includes the following:

Sr No.	Supporting staff	Total No.
1	Lab technicians	05
2	Attendants	05
3	Dental radiology assistant	01
4	Sterilization technicians	01
5	Dental chair assistant	15
6	Personal assistants	11
7	Receptionists	08
8	Naib Qasid	07
9	Store keeper	01



# Inauguration by the honorable Health Minister

The hiring of highly skilled staff placed School of Dentistry for a formal Inauguration by the Health Minister. The inaugural ceremony took place in **October 2020**. Eminent personnel of the ministry of Health were part of the inauguration ceremony.

# **PMC Inspection**

After the exceptional hard work of faculty and staff, on 4th November, 2020 school of dentistry had a successful PMC inspection. The inspection was headed by Prof. Jawad Ahmed Kundi after comprehensive deliberation it was affirmed that School of Dentistry has been given approval to induct 50 students initially and start the Bachelors of Dentistry undergraduate program. The number of student induction anticipates increasing in future. SOD scored 94% in the PMC inspection.

# Patient Intake and Clinical works

After completing all the requirements in totality and substantial amount of achievements enough to transition the project of School of Dentistry into daily routine it is now ready to:

- 1. Carry out diagnostic investigations
- 2. Operate and functionalize the school of dentistry clinical setup and commence treating patients.

# **Out Patient Department (OPD)**

The diagnostics department at SOD became functional on 21st October 2020. Until date, 161 patients have logged for dental check-up in the OPD.

At SOD, the outpatient department provides the critical link between basic sciences and clinical dentistry. The diagnostics department provides oral radiology, oral pathology/oral medicine, and dental emergency services to patients. In OPD the dentists helps the patient in making the correct diagnosis, develop treatment plan and referrals after detail consultation to the specialized department for optimum care.

#### **Student Induction**

As per PMC policy, rules, and regulations the SOD is ready to induct its first batch of students who have cleared the MDCAT exam held on **13-12-2020**. Soon the admissions will open and merit based induction of the talented pioneer batch will take place in January 2021. The campus, its faculty and the entire staff eagerly awaits to enroll first batch of BDS undergraduate students and hope to fulfill their duties in shaping careers.

#### Postgraduate Programs

The institution feels pride to be equipped with the qualified faculty, staff and standard facilities required to proceed with the postgraduate course programs. SOD is ready to induct and commence the postgraduate courses in the following domains:



- 1. Fellowship (FCPS)
- 2. MDS
- 3. MPhil
- 4. PhD

# Training dental auxiliary personnel

School of Dentistry while being in perfect position to shape careers understands the significance of dental auxiliary training. Therefore, the institution is also prepared to initiate dental auxiliary training programs alongside the undergraduate and postgraduate dental programs.





# **School of Nursing**

Presently 149 student nurses enrolled in general nursing and 26 in midwifery diploma (total 175 students). General Nursing diploma is being phased out as of 2018. BSN 04 years degree program waited for financial approval from PIMS accounts department for affiliation from SZABMU, Islamabad.

The following activities were carried out in February 2020 to December 2020

- Letter sent to CADD to increase number of slots for stipend from 174 to 270.
- Students ID cards developed.
- Students stipend increased from Rs.6860 to Rs. 20000.
- Process of students receiving stipend directly to their bank accounts initiated and approved instead of being handed over cash from the cashier to improve transparency.
- Due to the Corona Virus pandemic interactive lectures were given via Zoom to make sure that provision of education remained un-interrupted during the academic year.
- Supervising trainee nurses on clinicals in all components of Pakistan Institute of Medical Sciences (PIMS) Islamabad. They maintained students' academic, leave record and ongoing evaluation.
- Class teachers monitor students' studies and clinicals performances and submit written report to principal.
- Principal & female Nursing instructors coordinate with housekeeper regarding hostel issues.
- Developed Performa's for out pass & sleeping out pass, medical check-up etc.
- Maintain and monitor records on register on above mentioned activities and for shift duties. (morning, evening & night)
- Developed inventory list of SON equipment of Anatomy models, Fundamental of nursing skills equipment.
- Maintained faculty attendance register.
- Proper maintenance of student's nurse's enrollment and examination records

#### Teaching/ learning strategies carried out:

- Class Room / Virtual Teaching
- Demonstration (skills and models)
- Written Assignments
- Case studies
- Quizzes & monthly Tests



- Students Group Presentation
- Mid-term Exams (Paper/Viva, Practical)
- Pre-Board Exams (Paper/Viva, Practical)
- Final Board Examination (Paper/Viva, Practical)

#### **Clinical Objectives:**

Students performed clinicals in shift (morning, evening & night) in following areas:

- Medical, Surgical, Nephrology, Dialysis,
- Critical area MICU, SICU, Cardiac ICU, Pediatric ICU, Neonatal ICU, Main ER
- Infectious diseases, Oncology, Cardiology units
- Children hospital ER, Thalassemia Unit
- Operation Theater General, Gynae
- Burn Unit

Note: many student nurses suffered from COVID-19 and given proper medical treatment and Quarantine leaves.

#### Faculty attended trainings/ Workshop

- Transforming of Nursing Ethics
- Workshop on Evidence based guidelines for strengthening family planning services in Pakistan
- Presentations on Cardiac Emergencies
- Women Harassment at workplace
- Newborn Care (One Golden Minute)
- BLS certificate Training
- Breast Cancer Awareness Campaign
- BSN Degree Program Scholarship Inaugural Ceremony
- Diabetes awareness Seminar
- Presentation on Abortion care
- Midwifery Summit at Karachi
- Lecture on Hypertension Control
- Awareness walk for Prevention of Cardiac Diseases
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# Arranged workshop at SON

- Introduction research methodologies and its publication
- Types of research, data analysis tool

#### **Extra-Curricular Activities**

- Oath taking ceremony by 2nd year students nurses.
- Dupatta Ceremony on passing board examination.
- Mehfil- e -Milad
- Quran Khawani on Thursday every month
- Iftar Dinner during (Ramzan) at nursing hostel.

#### Future plan

• Students nurses will participate to provide typhoid vaccination to children of Islamabad in February 2021.



SON faculty attending Research session by maintaining distance during COVID-19



Community visit at Taxila Museum



# **Annals of PIMS**

The Annals of Pakistan Institute of Medical Sciences (APIMS) is the Official quarterly journal of Shaheed Zulfiqar Ali Bhutto Medical University, SZABMU/PIMS. Previously two separate medical journals of this institute were being published, namely JPIMS and the Journal of Surgery. They were officially merged into one journal APIMS in 2005. It has since been published under this name. The academic council of Shaheed Zulfiqar Ali Bhutto Medical University had declared "Annals of PIMS" as an official journal which was latter on endorsed by the syndicate committee on May 14,2014. Annals of PIMS is a double blind double peer-reviewed quarterly published journal that serves as a medium for the latest advancement of scientific knowledge in all the branches of Medicine, Surgery and Dentistry and its allied sciences and publication of scientific investigation in these fields. Annals of PIMS follows the ICMJE guidelines "Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly work" in medical journals; available at: http://icmje.org/recommendations/

#### Vision

A salient feature in this journal is the Undergraduate Publication corner wherein research works of undergraduate students will be published. "Undergraduate Student Editors" have been included for this purpose. The journal put special emphasis on publications in the field of basic sciences, clinical sciences\ and medical education. Various workshops are conducted annually with Dept. of Medical Education on scientific paper-writing review and research methodology.

#### Objective

- To promote research in various medical surgical and allied disciplines..
- To encourage quality research in basic and clinical sciences.
- To publish research from both qualitative and quantitative paradigm.

#### Scope

• All branches of clinical, pre- and para-clinical sciences, Critical Care and Emergency Medicine, Geriatric Medicine, Family Practice, Medical Ethics, Medical Education, Alternative and Complementary Medicine, Physical Medicine and Rehabilitation

#### Functions

To publish and share good quality research and enhance the visibility and citation of the journal through open journal system (OJS), and to provide a platform to progressing research (Graduate and Postgraduate level) for ongoing research in the field of Health Sciences.

Annals of PIMS publishes research papers, in the form of original articles, case reports, review articles, articles on medical education, and short communication related to health, medicine and dentistry in accordance

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with the "Uniform requirements for manuscript submitted to medical journals", after peer review by at least two reviewers.

The journal readers includes SZABMU and PIMS faculty, other healthcare professionals and researchers and is distributed to medical colleges and medical libraries throughout Pakistan. We encourage research librarians to list this journal among their library's electronic journal holdings. It may be worth noting that this journal's open source publishing system is suitable for libraries to host for their faculty members to use with journals they are involved in editing (see Open Journal Systems).

#### Key Activities 2019-2020

- Annals of PIMS is currently recognized by Higher Education Commission of Pakistan on July 2020
- Approved Journal list College of Physicians and Surgeons Pakistan (CPSP) on September 2020 (candidates opting to write and publish articles in lieu of dissertation for appearing in first Fellowship examination of CPSP)
- DOI has been obtained from Cross Ref for research articles (2020)
- Journal is recently recognized by BASE-Germany, Asian Digital Library & PASTIC, Index Copernicus International-Poland, Open Academic Journals Index (OAJI)
- Increased the pool of reviewers (national & international)
- Annals of PIMS has been converted into OJS recommended by the HEC for Open access purpose and increased the visibility of the journal
- Diversified Editorial board

# Results

# Journal Statistics (2020)

	2020
Original articles	28 till volume 16(3) July-September
Case Reports	-
Review Article	01
Editorial	03
Mics	01



Annals of PIMS listed in index Copernicus journals master list with ICV 2019: 68.04 rating

#### **Future Plans**

- Registration in various authorities before submission for Indexing in Master List like DOAJ, Journal TOCs. Ebsco Host USA
- Committee on Publication Ethics (COPE).
- Manuscript conversion into HTML for fast user access on Internet/, HTML is a Internet language that easily understandable by any web browser and smart phones, It is also requirement of Medline and International Indexation.
- Journal archives indexing in various International Universities digital repositories like CLOCSS/ LOCKSS, Digital Commons and well reputed international digital libraries like World Cat,
- Encourage Comparative and RCT & meta-analysis studies.

Total Feedbacks	246
Satisfied Citizens	103 (41.9)%
Un-satisfied Citizens	143 (58.1)%

# **PMDU Portal Report**

Prime Minister Deliverance Unit created SZABMU Pakistan citizen portal account in February 2019. Till date 457 complaints logged on SZABMU portal out of which 455 complaints were resolved only 02 complaints are under process. 375 logged complaints related to education, 64 complaints related to Health and complaints related to human rights 03 complaints logged under overseas Pakistani. SZABMU complaint department ensure to resolve the complaint within 5 to 10 days of complaint logged on SZABMU portal.



# Telemedicine

SZABMU has joined hands with government in launching the tele-medicine center across Pakistan in providing medical services across the country. A call centre has been established on emergency basis at the university premises and doctors are trained on daily basis on COVID 19 as per WHO recommendation. Registered medical practioners are available round the clock for consultation regarding covid symptoms, disease , diagnosis and treatments to suspected corona patients. Door to door ambulatory services are also made available in case of patient need emergency services.

It was started on 26th of March 2020 under the dynamic leadership of Prof Tanwir Khaliq.

Telemedicine is the way to provide better health care facilities to the people of the underprivileged unprocurable areas. As constraints on time and resources makes face to face consultation increasingly difficult, and telemedicine has the potential to produce efficient results in the symptomatic process. Therefore the goal of current research is to trust medicine with technology, and to produce a robust system that delivers an acceptable service at an appropriate price. We present the past and ongoing activities and the projects on telemedicine in Pakistan. After analyzing those projects we propose a telemedicine network model which improves healthcare facilities in remote areas of Pakistan. Our proposed model consists of both store & forward and real mode of telemedicine operations. This model connects the small and ill-equipped hospitals located in rural areas to the large and well equipped hospitals and telemedicine centers in urban areas.

In remote rural areas where there are relatively few doctors, telemedicine improves access to health care, reducing the need for patients or doctors to travel. Telemedicine speeds up the referral process by reducing unnecessary referrals, and improve the consistency and quality of health care. Improved contacts between the professional staff produce educational benefits for them and reduce professional isolation. Telemedicine has obvious advantages in the case of emergencies in remote environments such as on ships, in airplanes, and possibly on the battlefield. In all these situations it is very difficult that patients can be referred to the doctor in time.

Telemedicine has and continues to benefit the Pakistani people in terms of preventive care and disease treatment. Several companies are in the process of providing the telecommunication support needed for telemedicine, but much remains to be accomplished before telemedicine can glean its bragged benefits for Pakistan's exponentially growing population. Pakistan is in a unique position for building its telemedicine infrastructure. With its highly qualified medical practitioners and an emerging technological industry, the country has the opportunity to create a multitude of products and services to cater to this evolving area. Given proper access and awareness, Pakistan seems Equanimeous to incorporate telemedicine beyond its current rudimentary projects to large-scale programs that can serve as a model for itself and the developing world.













# Federal Medical & Dental College (FM&DC)

#### Introduction:

Federal Medical & Dental College, Islamabad is the first public sector medical college in the capital city of Pakistan. The College after inspection by Pakistan Medical & Dental Council (PM&DC) on 28th March, 2011 was initially awarded recognition for the degree of MBBS for 50 seats only. However, subsequently after re location to NIH premises this award was enhanced to 100 seats after due completion of PM&DC rules & regulations.

The new campus of Federal Medical & Dental College (FM&DC) was established and inaugurated by the then Prime Minister on 27th February, 2012. The College was again re-located and shifted at Al-Farabi Centre, Hanna Road, G-8/4, Islamabad, in December, 2017.

# Targets and Goals:

The institute will cater to students from all over Pakistan, with seats reserved for all the provinces as per approved government quota.

Federal Medical & Dental College (FM&DC) will induct 100 MBBS students every year. The Pakistan Institute of Medical Sciences (PIMS) is the main affiliated1200 bedded teaching hospital; however, additionally another hospital (Federal General Hospital) has been upgraded at NIH to a 200 bedded facility to provide for more clinical learning opportunities for the students.

#### **Activities:**

100 seats per year have been allocated for admissions in MBBS at Federal Medical & Dental College. Every effort was taken to ensure transparency and addressing concerns in induction of students at FM&DC, in accordance with Pakistan Medical & Dental Council (PM&DC) rules and regulations.

The following activities have been carried out during 2019-20.

- i) 9th batch of 100 MBBS students has been enrolled in the session 2019-20 and the academic activities are going on.
- ii) 10 Afghan students have been admitted through Higher Education Commission (HEC) scholarship.
- iii) 02 students from Balochistan and 02 students from FATA have also been admitted through Higher Education Commission (HEC) scholarship.
- iv) First, Second, Third, Fourth & Final Professional MBBS annual examination of 1st year, 2nd year, 3rd year, 4th year & 5th year were held in November / December, 2019.
- v) First, Second, Third, Fourth & Final Professional MBBS supplementary examination of 1st year, 2nd year, 3rd year, 4th year & 5th were held in June / July, 2020.
- vi) The Annual sports Gala of FM&DC was conducted at Pakistan Sports Complex from 24th to 28th February, 2020.



- vii) 4th Batch of MBBS students was passed out in January, 2020. Around eighty five (85) MBBS students were given paid house jobs in Pakistan Institute of Medical Sciences (PIMS).
- viii) New lectures on ethics, communication skills, professional attitude and sessions on stress management were included.
- ix) Online international webinars were attended by faculty and students.
- x) Online classes were conducted post pandemic and clinical classes, internal assessments were also successfully conducted without any untoward incident.
- xi) Many faculty and students were involved in different research activities and large numbers of faculty enrolled in specialized courses.
- xii) Department of Medical Education was established.
- xiii) Many passed out students of 4th Batch got admission in different post-graduation programs like FCPS, MS / MD.

#### Achievements:

#### 1. Admission

100 seats per year have been allocated for admissions in MBBS at Federal Medical & Dental College. Every effort was taken to ensure transparency and addressing concerns in induction of students at FM&DC; in accordance with PM&DC rules and regulations. Seats allocated to students according to approved quota are given below:-

Merit 06 Punjab 38 Sindh R 09 Sindh U 06 KPK 09 Balochistan 05 Gilgit Baltistan 02 FATA 02 AJK 02 ICT 10 FGE 09 Disabled 02 100



Currently nine batches of MBBS students have been admitted in the College. The induction process of 10th Batch of another 100 MBBS students is under way.

#### 2. Establishment of Departments & Faculties

FM&DC is fully aware of its leadership role and responsibility in standardizing undergraduate medical education and promoting a culture of medical research to eventually improve and optimize health care facilities in the country. The Basic Medical Sciences at FM&DC includes the following departments:

- Department of Anatomy
- Department of Physiology
- Department of Biochemistry
- Department of Pharmacology
- Department of Pathology
- Department of Community & Public Health Sciences
- Department of Forensic Medicine & Toxicology

#### 3. Teaching Hospitals

The Pakistan Institute of Medical Sciences (PIMS) is the main affiliated hospital; however, additionally another hospital (Federal General Hospital) has been upgraded at NIH to a 200 bedded facility to provide for more clinical learning opportunities for the students.

#### 4. Established Laboratories/ Dissection Hall/ Library

The college has established proper laboratories for each department to carry out the practical's of the students.

A library has been established to facilitate the study of the students and provide the latest books for reference. Furthermore a dissection hall has also been established to facilitate the practical work in the field of medical education.

#### 5. Digital Library

The College has an established library to facilitate the students. Digital Library has also been arranged for guidance of the students. The digital library can be visited at www.digitallibrary.edu.pk/szabmu.html.

#### 6. Website

A website of the College has been launched for facilitation of the public and also to share the activities of the college. Through our website proper information is given so that there is ease of access without visiting the College campus. The website can be visited at www.fmdc.edu.pk





# AFFILIATED INSTITUTES





# HBS Medical & Dental College

#### 1. History

This institution was commissioned in year 2015 after the approval of PM&DC and ministry of health services, regulation and coordination (MONHSR&C). College is designated after the name of great sufi saint of 17th century AD. Hazrat Bari Imam Sarkar (HBS) The patron saint of Islamabad and Potohar region.

# 2. HBS College Campus

HBS Medical & Dental College is centrally located on Lehtrar Road dual carriageway, in Islamabad. It has a spacious purpose-built campus. It has it's own 500 bed tertiary care general hospital (HBS General Hospital) located within walking distance of the campus.

#### 3. Mission Statement

To produce community and basic research oriented doctors with scientific knowledge, competence, objectivity, rationality and the ability to detect early signs of disease for offering treatment to their patients in a humane manner with responsibility.

# 4. Dental College / Dental Hospital

HBS Dental College started in 2019 and at present it has two entries of 50 students each.

#### 5. Faculty

The college has engaged a highly professional and qualified faculty and it is the result of this extremely dedicated faculty that college since its inception has produced excellent results in all the university professional examinations.

#### 6. Achievements

This college stands out in all the university professional examinations.



# 7. Working under Covid-19

Environments With the outbreak of this deadly pandemic our institution took an extra ordinary measures to work under these challenging environment. Following initiatives were taken to continue functioning under these conditions.

- a. Symposium on Coronavirus This institution has a unique honor to organize a special symposium on outbreak of this deadly disease, coronavirus. It was attended by the students of 4th & final year. All the speakers have introduced the disease. Its affects and remedial measures. A guest speaker Prof. Dr. Col Amjad from NIH also graced this occasion and provided valuable information regarding awareness of Novel 2019 Corona Virus, its Outbreak in Pakistan and remedial measures taken at all level by government of Pakistan. A large number of other workshops, guest lectures CPC, symposia are routinely organized.
- b. Online Classes This institution has started online classes at the first available opportunity with the assistance of its permanently employed highly qualified IT staff. These online classes were conducted on Facebook & Google class room
- c. Online practical classes In addition to online lectures the regular practical classes also started on IT application, Zoom and this experience was highly applauded by students and faculty together.
- d. Online examinations A very effective system of online examination was practiced by this institution using following IT applications. i. Google class room ii. Google meet iii. Socrative iv. Zoom/whatsapp (Viva)

# 8. Post Covid Activities (First wave)

After the recession of the first wave of Covid the rotational academic activities started in the institution by observing all the Covid Sops.

- a. Following academic activities planned and conducted as under:
  - i. All the lectures were delivered online.
  - Practical classes were organized at campus keeping as view the SOPs and instructions issued by the HEC and SZABMU. Only two classes in a day were called for the practicals at college campus.
    1 st Year & 3rd Year Monday & Tuesday 2nd Year & 4th Year Wednesday & Thursday Final Year Clinical rotations form Monday to Friday in HBS teaching Hospital.
- b. Attendance by the students All student took keen interest in online classes and remained very conscious regarding the attendance. Most of them attained the required level of attendance which is the mandatory requirement to appear for professional exam. Few students who fell short of the required attendance were forced to attend extra classes. They were also served with home assignments to compensate for short attendance. These students were required to submit their assignment online.

#### 1. Webinars / Symposiums

Under this difficult period of pandemic our dedicated team of faculty remained very active and did not



forget to perform their noble function of training the junior staff and students. Following webinars were planned and conducted during this period. a. Surviving & Thriving Through the Challenging Years Of Medical School This webinar was conducted on 7 November 2020. All the participant took keen interest and graded this webinar very productive and rewarding. This session was graced by following speakers, while Dr Muhammad Riaz Shahbaz Janjua and Dr Jamilah Riaz Janjua performed the responsibilities of virtual host. I. Dr Zaidan Idress Chaudry Facilitator Assist Prof HBS Medical & Dental College Islamabad II. Prof Rizwan Taj Head of Psychiatry PIMS III. Dr Rais Irfan Ahmed Consultant Psychiatry & Clinical Director Derbyshire Healthcare NHS IV. Dr Farina Tahira General Adult Consultant Psychiatrist Endorsement in Substance Misuse Psychiatry Derbyshire V. Dr Faisal Farid Consultant Neuropsychiatrist Dip Clinical Neuropsychiatry (Univ of Birmingham) VI. Dr Kamran Afridi Consultant Psychiatrist CAMHS, Surrey, England

#### 2. Motivational Lecture

This institution also hosted the motivational lecture by the representatives of Pakistan Army. A senior officers of Army Medical Corps delivered this motivational lecture and invited students to join medical branch of Pakistan Army. Most of the student audience showed eagerness and keen interest to join Pakistan

#### 3. Mentoring

Taking the advantage of availability of time during holidays a special webinar was conducted for faculty members on date 03/09/2020 through Zoom. Various procedures and methods were discussed by the participants to conduct the effective mentoring of the students. This very important webinar was facilitated by the college executive director Dr Jamilah Riaz Janjua.

#### 4. HBS Dental College, Islamabad Annual Report

HBS Dental college successfully accomplished the year 2020 and achieved the goals of this year. Academic session 2020 of first year and second year BDS completed effectively, Block 1,2,3,4,5 & 6 started from February 2020, students attended regular classes at campus of HBS dental college and after Covid-19 Pandemic classes were continued online from month of March 2020. Meanwhile student assessment like class tests, module exam and block exam were conducted online via Google classroom which were effectively organized and completed by college faculty. HBS dental college planed many co-curricular activities, students were enthusiastically participated in sports week (March 2020) but unfortunately other planned activities postponed due to Pandemic outbreak. Consequently, for maintenance and development of HBS Dental College/ Hospital regular meetings were conducted and action taken to fulfil the gaps. College disciplined different committees each has chairperson and skilled members to tackle the issues and requency of each meeting conducted as follow:

- 1. Quality assurance (2 meeting/year held on campus),
- 2. Clinical co-ordination (3 meetings/year- 1 on campus & 2 online),
- 3. Program evaluation (4 / year- 2 meeting on campus & 2 online),



- 4. Mentoring (7 / year- 5 meetings on campus & 2 online),
- 5. Bio medical (7 / year 5 meetings on campus & 2 online),
- 6. Curriculum (7/year 5 meetings on campus & 2 online),
- 7. Assessment (5/ year- 4 meetings on campus & 1 online),
- 8. DME (7/ year 5 meetings on campus & 2 online),
- 9. Academic council (7/ year 5 meetings on campus & 2 online),
- 10. Research (4/ year- 3 meetings on campus & 1 online),
- 11. Food & beverage (2 meetings on campus/ year),
- 12. Hostel management (2/ year 1 meeting on campus & 1 online),
- 13. Faculty development (2/ year 1 meeting on campus & one online),
- 14. Security (2/ year 1 meeting on campus& 1 online),
- 15. Co-curricular (2/year 1 meeting on campus & 1 online),
- 16. Clinical audit (10/ year 3 meetings on campus & 7 online),
- 17. Information Technology -IT (3/ year -1 meeting on campus & 2 online),
- 18. Inter collegiate liaison (2 meetings online/ year), 9
- 19. Staff discipline (3 meetings on campus/ year),
- 20. Fire Safety (2/ year 1 meeting on campus & 1 online),
- 21. Outreach (7 / year- 3 meetings on campus & 7 online),
- 22. Student affairs (7/year- 4 meetings on campus & 3 online),
- 23. Staff welfare (3/year -2 meetings on campus & 1 online),
- 24. Infection control (4/ year 2 meetings on campus & 2 online).

Webinars & workshop conducted by Prof. Arshad Mehmood Malik Principal / Dean HBS Dental College, Islamabad in year of 2020; there were seven webinars conducted on "Temporomandibular joint dysfunction syndrome", thirteen webinars on "Trigeminal neuralgia", two on "Dry socket", one on "Exodontia" and "Career counselling". Consequently, hands on workshop conducted at HBS dental college on "Local Anesthesia" in month of November 2020.

# ANNUAL REPORT

















# **Rawal Institute of Health Sciences**

# Islamabad

#### Introduction

Rawal Institute of Health Sciences (RIHS) affiliated with Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU), is built with mission to foster learner centred education system with a vision to produce doctors committed to lifetime learning and professional development. RIHS aims to educate students to become caring, compassionate, ethical and proficient health care professionals to serve the community without distinction of caste, colour, creed and social status. RIHS, established in 2011, comprises of Rawal College of Medicine, Rawal General Hospital, Rawal College of Dentistry, Rawal Dental Hospital and Rawal College of Nursing. The detailed information about RIHS is regularly updated on its website **www.rihs.edu.pk.** 

# **Rawal College of Medicine**

Under the leadership of Prof. Dr. Muhammad Azam Zia various departments are involved in the training of undergraduates while Maj. Gen. (R) Prof Dr Shahab Naqvi, Dean RIHS, heads postgraduate programs. The departments are actively involved in Research and remain abreast with latest research works, done nationally and internationally, with the help of Journal Club meetings and CPCs, which are held fortnightly in RIHS. Department of Medical Education, consisting of trained faculty members, conducts regular workshops for curriculum and faculty development. BLS and Primary Trauma Care training courses are mandatory for the final year students. From this year onwards software for interactive learning is being introduced from first year MBBS class to improve the learning experience of the students.

# **Rawal General Hospital**

Rawal General Hospital is a 500 bedded hospital fully equipped with modern and latest facilities. RIHS takes pride in offering tertiary care facilities in a variety of Allied Surgical disciplines like Cardiac Surgery, Orthopaedics, Neurosurgery and Paediatric Surgery and Allied Medical disciplines like Dermatology and Neurology. The Radiology department is equipped with latest MRI and CT Scan machines. Rawal general hospital has a well-established Rawal Cardiac Centre that has performed around 300 cardiac surgeries and as many angioplasties in a short period of time.



# Rawal Dental College

Rawal Dental College is a constituent college of RIHS. Headed by Prof.Saad Asad, it delivers both undergraduate and postgraduate programs. Undergraduate BDS comprises of Departments of Oral Biology, Science of Dental Materials, Periodontology, Orthodontics, Community Dentistry, Oral and Maxillofacial Surgery, Operative Dentistry having paedreatic dentistry working in liaison, Prosthodontics sand Oral Medicine.

# **Rawal Dental Hospital**

The dental hospital is equipped with more than 100 fully functional dental units with all necessary diagnostic aids. The hospital has been functional with efficient staff providing the best dental care in twin city. It offers a wide range of procedures and strives to set a high standard of professional health care under aseptic conditions. Hospital is recognised by SZABMU and CPSP for postgraduation in all clinical departments.

# Rawal College of Nursing

Rawal College of Nursing (RCN), established in 2016, is a component of RIHS operating in compliance with the Pakistan Nursing Council (PNC) and SZABMU (PIMS) Islamabad. Headed by Ms. Daizi Jafar Mashi, RCN offers its students a high class faculty including full time, part time and visiting faculty having extensive teaching experience. The future plans include01 year diploma in CCU, ICU, NICU and OR.

# Postgraduate Program

RIHS is an accredited institution by College of Physician and Surgeons, Pakistan for FCPS in following specialities: Physiology, Obstetrics & Gynaecology, Anaesthesiology, Medicine, Surgery, Psychiatry, Eye, Paediatrics and Operative Dentistry. The process for accreditation of MPhil programs in various Basic Sciences disciplines has been started and is expected completion in short course.

# **Co-curricular** Activities

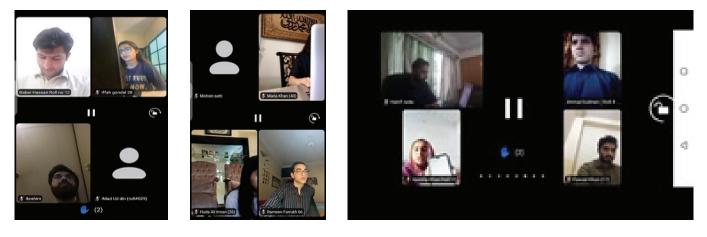
To promote sporting spirit among students and faculty, co-curricular activities are held throughout the year. The students and faculty participate enthusiastically in Annual Sports week of SZABMU. The other co-curricular activities include; Orientation Ceremony of new Batches, Welcome party, Eid & Christmas celebrations, Bonfire, Iftar dinner, Milad & Naat competition, excursion trips to northern areas, debate competitions etc.

# Academic

In wake of COVID-19 the on-campus mode of study was shifted to "ONLINE ZOOM Classes' for online teaching during March, 2020. After mutual discusses, decision was taken by higher authorities and Board of studies to start ONLINE teaching. In this regard a workshop was conducted by I.T department regarding usage of LMS (Leaning Management System). The dedicated faculty conducted the sessions and learned the process of online teaching. To ensure active participation of students, online support was available round



the clock with Whatsapp group consisting of all the students, faculty members, administration and I.T department. The assessments were also conducted on the same mode, ensuring transparency with minimal cheating in guidelines laid by the Assessment Committee. However after 15th September, 2020 it was hybrid mode of learning with alternate days of on campus and online sessions in accordance with the guidelines of HEC.



#### Extracurricular

• A milad was organised by Rawal College of Nursing on 17th November, 2020. In which participants presented beautiful and eloquent hymns and naats with religious reverence.

# Clinical

- Establishment of Rawal Cardiac Centre with state of the art operation theatres, Cardiac Cath Lab and Post Cardiac ICU.
- Procedures like ERCP have become regular feature in Rawal General Hospital
- Complicated surgeries like Bilateral Total Knee Replacement done by Orthopaedic department add to the glory of the hospital.
- Innovative teaching and learning modalities including software based learning have been introduced for the class of 2020
- At the Clinical side research training is being conducted by Prof. Rubina Mumtaz for the current Dental House officers.

# **Future Plans**

- M.Phil program in Basic Sciences
- Rawal College of Pharmacy
- Rawal Renal Transplant centre
- Rawal Liver Transplant centre





# Islamabad Medical & Dental College

Islamabad Medical & Dental College is recognized for MBBS, BDS, Post RN-BSN, BS Nursing, DPT, BS-MLT, Post graduate programs in six disciplines of Dentistry. The nine batches of MBBS and six batches of BDS program have graduated. The IMDC will be inducting 15th batch in MBBS, 11th batch in BDS.

Islamabad College of Rehabilitation Sciences and department of Allied Health Sciences were established in March 2017 and are currently offering five-year Doctor of Physical Therapy (DPT) and four-year Bachelor of science in Medical Laboratory Technology (BS-MLT) respectively.

# E- learning at Islamabad Medical & Dental College during Covid-19 Lockdown

In the context of COVID-19 pandemic lockdown, IMDC shifted all academic activities to distant learning mode without delay. This was possible only because of the already in place "Learning Management System (LMS)". Students and faculty were accustomed to information sharing and giving feedback through LMS. All the programs running under the auspices of IMDC (MBBS, BDS, BSN, Post-RNBSN, MLT and DPT) were catered through LMS.

IMDC made use of available platforms for online learning namely zoom, google meet, WhatsApp, youtube in addition to already available LMS. The main focus was the delivery of theoretical content, however, a few disciplines tried to teach clinical methods through videos. These clinical skills will be practiced again on the resumption of on-campus learning. The instruction was done via lectures, small group discussions, case-based discussions, and videotaping and recording. Formative assessment through online quizzes, assignments, and even OSPE was done but the summative assessment is planned for on-campus learning. Students and faculty both found it hectic yet acknowledged new gains in terms of skill and knowledge for the use of e-learning technologies.

# Islamabad Nursing College

The BSN Generic program was recognized by Pakistan Nursing Council and Shaheed Zulfiqar Ali Bhutto Medical University. Islamabad Nursing College inducted first batch in its Four Years BSN program. For BSN students, INC offers scholarships and sponsorship through National Endowment Scholarships for Talent (NEST) and Dr. Akbar Niazi Teaching Hospital.



# **Research Updates**

- The Journal of Islamabad Medical and Dental College (JIMDC) has been upgraded from HEC "Z" to "Y" category, applicable from July 01, 2020.
- More than 30 Research Projects have been approved by Institutional Review Board of IMDC in 2020.

#### Institute Updates

Following workshops, Training Sessions and Awareness Campaigns were conducted at Islamabad Medical & Dental College during 2020;

- Workshop on BFHI Implementation in collaboration with World Health Organization (WHO)
- Workshop on "Appropriate Attitude & Behavior at Workplace"
- Pink Day (Breast Cancer Awareness)
- Workshop: "Ethics at Workplace"
- World Contraception Day
- Webinar: Chronic Hepatitis
- Webinar: Covid -19 Myths & Realities
- Interactive Talk: Why Diagnose & Treat Depression?
- National Nutrition Month! Eat right Bite by Bite
- Dr. Akbar Niazi Teaching Hospital organized a Seminar on Bone Marrow Transplant for Thalassemia.
- A training Session was organized for House Officers on the topic **"Caring Hearts"** to inculcate a culture of empathy, care and compassion among employees.
- Nursing Education Services (NES) program has been initiated year 2020 for Nursing staff.
- A Training session on **"Leading by Team Building"** was organized by Directorate of worker education (DWE) for Managerial Level.
- Workshop "Clinical Trials" was organized for Faculty members of IMDC.







# **Dental Section**

Dental section IM&DC worked towards a progressing future keeping in mind that academic excellence must be matched with compassion, integrity and professionalism. Although the year was met with COVID-19 pandemic stretching through after March 2020, the faculty worked with zeal and commitment taking online sessions so that students were given knowledge of the theoretical part. The faculty was focused in producing exceptional dentists who were future leaders and researchers.

# **Online Sessions for BDS programs**

Online sessions for all years of BDS were taken from 8:00 AM till 2:00 PM on a daily basis following the pre-COVID-19 timetable routines. Assignments and online formative assessments on the learning management system (LMS) of IM&DC were a regular part of the quarantine period. Self -directed learning was maintained in these teaching sessions by conducting small group discussions (SGDs), PBLs and group presentations. Separate online sessions were kept for students who were admitted late during the session in first year BDS.

#### **On campus Activities**

Once it was permissible to call the students on campus their practical portion was covered in groups, strictly following the SOPs. The clinical rotations of third and final year BDS proceeded at Islamabad Dental hospital following the similar protocols and students were called in groups to proceed with their clinical quota.

# Post graduate Degree Programs

Five additional training programs were recognized by CPSP and trainees were inducted for the year 2020:

#### FCPS

- 1. Orthodontics
- 2. Prosthodontics
- 3. Operative Dentistry
- 4. Oral and Maxillofacial Surgery

#### MCPS

1. Periodontology

Several Workshops were conducted at Dental Section, IMDC and online in Year 2020













# **Bashir Institute of Health Sciences Islamabad**

# Affiliated With

# Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU)

# Activities of the Year 2020

2020 has been a tough year for the whole world due to the pandemic of COVID-19 leading to worldwide social and disruption. It causes the cancellation of events on the greater scale; and also results in the global lockdown. Humans being the most adaptive species of planet have made precautionary alteration in their life styles to cope with the situation emerged with 2020.

Bashir Institute of Health Sciences, Islamabad (BIHS) has also been able to deal with the pandemic of COVID-19 in the best possible way.

# Academics & Co-Curricular

Among the Academics and Extra Curricular activities following were the main events occurred in BIHS during the Year 2020.

#### 1. Anti- Corruption Walk

Along with the academics BIHS also promotes the awareness of moral values among the students. For that reason BIHS organized an Anti-Corruption walk in the beginning of Year 2020.







#### 2. Routine Visit of SZABMU

An Inspection team of Shaheed Zulfiqar Ali Bhutto Medical University visited BIHS on 27th of January 2020. This team was head by Professor Dr. Farmanullah.



#### 3. Dental and Physiotherapy Camp



#### 4. COVID-19 Awareness Seminar

With the surge in the cases of COVID-19 globally, BIHS decided to arrange a seminar regarding the awareness of COVID-19 on 04th of February 2020. For that purpose we invited Prof. Dr. Muhammad Fawad a research scientist at Chinese Centre for Disease Control.





#### 5. Kashmir Solidarity Day

Solidarity Day with the people of Kashmir was celebrated in 05th of February 2020 in BIHS.



#### 6. Color fest 2020

Color fest is celebrated every year in BIHS. In 2020 it was celebrated on 20th February 2020.





#### 7. COVID- 19 Lockdown

On the 16th of March 2020, BIHS decided to close the Institute following the instructions of Government of Pakistan and all the academic activities where shifted from vis-à-vis to online sessions. For that purpose online class training and workshops for the teachers where arranged, which was compulsory for all to attend.

#### 8. SOPs of BIHS

Understanding the seriousness of the Pandemics, strict SOPs where followed by the Institute after reopening and resumption of face to face classes.



#### 9. Milad e MUSTAFA (SAWW)

Milad e Mustafa was celebrated on 11th November 2020 following the strict SOPs.







# Yusra Institute of Rehabilitation Sciences, Islamabad

Yusra Institute of Rehabilitation sciences has been providing quality education and clinical training in the field of rehabilitation sciences since 2016, up till now 66 students have been enrolled in subsequent professional years and our new academic intake will be completed by January 2021.

Our Institute believes in provision of advanced education and state of the art facilities to its students so that we can produce quality graduates having considerate clinical knowledge and appreciable clinical skills. Our sole mission is to educate the next generation of rehabilitation professionals in a collaborative interprofessional learning environment, provide accessible, innovative health and wellness care services and explore ways to improve health outcomes in order to assure optimum health conditions in the community and beyond for the ailing humanity.

Year 2020 has been a blessing in disguise for YIRS as we explored new ways of teaching and training our students ensuring provision of quality education services even in time duration of distant learning. We developed strategies for conducting online workshops, webinar sessions and faculty development programs so that our academic year must not suffer from damages of the COVID-19 Pandemic. Online assessments were conducted on weekly basis and after reopening of colleges, on campus pre-professional exams were conducted timely. Though managing things wasn't convenient as it is in case of face to face teaching but these difficulties opened new dimensions where all of us learned newer ways of staying in coordination and imparting best possible education to our students.

Prior to the Lockdown students of YIRS luckily organized their annual sports week which was full of fun and added joyous moments in our lives. These events improve management and pressure bearing skills of students along with enhancing their confidence and team work abilities. Sports week ended with annual prize distribution as appreciating hardworking students and acknowledging their efforts has been legacy of YIRS for years. Gold medals were presented to students securing position in SZABMU and shields were given to teachers and distinction holders. In addition to this, students of YIRS formulated an organization with help of their teachers amidst lockdown and provided food bags to suffering families. Funds were raised by mutual efforts of teachers and students.

We believe in the fact that, adapting modern teaching strategies is need of the hour and maintaining dire balance in academic and extra-curricular activities is necessary for smooth running of the educational institutes because students of present time needs to be rendered with advanced cognitive, social and practical skills.





# National Institute of Rehabilitation Medicine

# Introduction

Post Graduate Speech Therapy Diploma (PGDSLT) course is being conducted in NIRM since 1991. This unique and outstanding course in clinical training and course work provides strong knowledge base and develops skilled clinical expertise of the students because of its experienced faculty as well as problem based learning of the students due to high patients' influx. Currently 27th batch is under training. Almost 300 speech therapists have passed out and most of them are working in public and private sector in Pakistan. Many of those are working in different universities heading speech therapy departments and conducting research degree programs. The teaching faculty of the course includes highly qualified medical and allied health professionals, none of these have qualification lesser than master or equivalent degree. The PGDSLT program got affiliated with SZABMU on 8th August 2018 since then the academic activity is being conducted in collaboration with the university. The admission of 26th batch, session 2019-2020 was advertised in November 2018, with the recommended and modified criteria for admission, proposed by the university affiliation committee in 2018. Now the applicant must have F.Sc pre-medical back ground along with graduation or Master degree in the required fields. The available seats are 25 but 15 students were admitted due to change in admission criteria. All the admitted students of session 2019-2020, got registered in SZABMU and final exam was conducted by the examination department of the university in collaboration with NIRM successfully in the month of November 2020. 27th batch was admitted and registered in the course in January 2020 which is under training at the moment. Due to covid-19 the academic activities are going on at a relatively slower pace with online teaching as well as on campus practical training in smaller groups. M.Phil program in speech Language Pathology has already been proposed and wetted by the department of Medical Education at SZABMU.

The patients visit speech therapy department with speech, language, communication eating feeding and swallowing concern with or without any disability. Therapy is provided on regular and follow-up basis with home plans. There is strong interdisciplinary team working at NIRM to serve patients with special needs under one roof. Patients are referred to speech therapy department from other hospitals for consultation, assessment and therapy as well. ST department has an OPD of 80 or more patients, and provide 30 minutes session to every individual with the help of its internees and trainees. During Covid-19 teletherapy was also provided.





# **Institute of Health and Management Sciences**

Institute of Health and Management Sciences, Islamabad, an affiliated private institution, has been working under the auspices of SZABMU since 2015 for Doctor of Physical Therapy (DPT) program.

Following developments were made during the year 2020.

As per SZABMU guidelines, following steps were taken during 2020:

#### Labs Established

- 1. A new fully equipped Electrotherapy Lab was developed for practical of DPT students.
- 2. Kinesiology Lab was rearranged and more space was allocated for this Lab.
- 3. A new Lab of Medical Physics was established.
- 4. Anatomy and Physiology Lab was rearranged as per given guidelines.
- 5. Clinical Rotations of DPT students in FGH Islamabad.

#### Library

New books with new additions were added to the IHMS Library.

# Faculty Updated

New highly qualified Faculty, including an experienced and qualified Head of Department and DPT coordinator, were appointed for smooth running of the DPT Program.

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# Prime Institute of Health Sciences, Islamabad (Pihs)

# **Overview of Activities Performed During COVID-19**

#### Anesthesia Day

On October 16, 2020, Anaesthesia Day celebrated by PIHS to mark the first successful demonstration of diethyl ether anaesthesia in 1846. The discovery made it possible for patients to obtain the benefits of surgical treatment without pain. Visual Evidences of the Anaesthesia day are;



#### International Day of Radiology (IDOR)

The International Day of Radiology (IDOR) is an annual celebration held on the anniversary of the date of discovery of x-rays by Wilhelm Roentgen, i.e. 8 November 1895. The annual celebration was held on 8 November 2020.





#### **Breast Cancer Awareness Walk**

PIHS participated in the Breast Cancer Awareness Walk being organized by National Institute of Health lead by Parlimentary Secretary for Health Dr. Nousheen Hamid dated October 09, 2020.



#### **Exams Execution**

PIHS conducted exams successfully as Per COVID-19 Standard Operation Procedures being issued by Higher Education Commission.



#### **Assessment of Physical Fitness**

PIHS Organized on February 07, 2020 a workshop/training session for the assessment of physical fitness of participants, grading, assessment and evaluation of their performance.

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Hands on Training Workshop on Quality Cardiopulmonary Resuscitation



#### Staff & Faculty Trip

PIHS arranged a recreational trip to Mushkpuri Top in the Month of December, 2020 for its faculty and staff in order to recognize their services.





# SHAHEED ZULFIQAR ALI BHUTTO MEDICAL UNIVERSITY

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