

STANDARD 1: PROGRAM MISSION, OBJECTIVES AND OUTCOMES

Each program must have a mission, measurable objectives and expected outcomes for graduates. Outcomes include competency and tasks graduates are expected to perform after completing the program. A strategic plan must be in place to achieve the program objectives. The extent to which these objectives are achieved through continuous assessment and improvements must be demonstrated.

Standard 1-1: The program must have documented measurable objectives that support faculty / college and institution mission statements.

- Document institution, college and program mission statements

IBN-E-SINA UNIVERSITY MIRPURKHAS (ISUM)

MISSION STATEMENT OF IBN-E-SINA UNIVERSITY MIRPURKHAS (ISUM)

Nurturing students' potential by providing them highest quality education thereby producing individuals with strong values, compassion, inclusiveness, leadership and professionalism, emphasizing community engagement particularly with marginalized segments of rural population, encouraging students to become empathetic and socially responsible professionals by training them in the best evidence- based practice, capable of contributing to advancements through research and innovation.

VISION OF IBN-E-SINA UNIVERSITY MIRPURKHAS

To be an internationally recognized institution, famous for its ethical work, emphasizing the importance of integrity, honesty and moral principles, highlighting the University's commitment to serving the community and producing unbiased and empathetic educated people who are inclusive and have leadership skills, encouraging them to engage in research, critical thinking, innovation and evidence- based best practices.

GOALS OF ISUM

In pursuing its Mission, the University has following goals:

- a. Prepare the younger generation to become future leaders and managers for a prosperous Pakistan especially in this underprivileged area of Sindh, through development of their physical, mental, moral and professional strengths.

- b. Ensure academic excellence through high quality education in disciplined and peaceful learning environment.
- c. To offer the benefits of successfully meeting the intellectual challenge and to nurture their skills.
- d. To inculcate qualities, they need for their professional careers ahead and to enable them to achieve their full potential as individuals.
- e. Constantly monitor and upgrade facilities and update the curricula to keep pace with the emerging trends and technologies.
- f. Coordinate, include and provide facilities for exchange of knowledge and applied research in the newly emerging fields in collaboration with national and international Universities and research institutions.

MUHAMMAD MEDICAL COLLEGE, MIRPURKHAS

MISSION STATEMENT

Nurturing students' potential by providing them highest quality education thereby producing individuals with strong values, compassion, inclusiveness, leadership and professionalism, emphasizing community engagement particularly with marginalized segments of rural population, encouraging students to become empathetic and socially responsible professionals by training them in the best evidence- based practice, capable of contributing to advancements through research and innovation.

Program OBJECTIVES:

I. Medical knowledge

To enable students to gain medical knowledge of:

- 1. Normal human structure and function at the molecular, genetic, cellular, tissue, organ-system and whole-body level.
- 2. The mechanisms involved in the causation and treatment of human diseases and their influence on clinical presentation and therapy.
- 3. The epidemiology of common diseases.
- 4. The impact of social factors on health and disease.
- 5. The basic scientific and ethical principles of clinical research.

II. Patient care

- 6. To enable students to apply scientific methods to the practice of medicine for the identification of problems, data collection, hypothesis formulation, and the application of deductive reasoning to problem solving, clinical reasoning, and decision-making.
- 7. To successfully integrate collected clinical information to carry out appropriate diagnostic and treatment plans for patients

across the broad spectrum of acute and chronic conditions.

8. To perform basic risk assessments and formulate plans to promote patient wellbeing.

III. Interpersonal and communication skills

9. To affectively counsel and educate patients and their families.

10. To design diagnostic and treatment options in a manner that will help the participation of patients and their families in shared decision-making.

11. To effectively communicate with members, including both physician and non-physician professionals, of the health care team.

IV. Professionalism

12. To exhibit high standards of professionalism and demonstrate an awareness of potential conflicts of interest.

13. To apply legal and ethical principles governing the physician-patient relationship to interactions with patients and their families.

14. To act in the patient's best interest and serve as a patient advocate.

15. To work collaboratively and effectively in inter-professional teams.

- ***Outline how the objectives are in line with the mission of the institute.***

Program Mission	Obj. 1	Obj. 2	Obj. 3	Obj. 4	Obj. 5	Obj. 6	Obj.7	Obj.8	Obj.9	Obj.10
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Obj. 11	Obj. 12	Obj. 13	Obj. 14	Obj. 15					
	Yes	Yes	Yes	Yes	Yes					

- *The main elements of the strategic plan to achieve the program mission and objectives.*

S#	Areas	Activities	Time period
1	Curriculum	Integrated modular system with revised curriculum has been started for 1 st year to 5 th year.	December 2024
2	Laboratories	Adequately furnished laboratories with sufficient room to accommodate the students, available in all basic discipline	December 2024
3	Lecture theatres	Spacious and with teaching aids including multimedia facilities (video conferencing) available for preclinical and clinical students.	December 2024

4	Auditorium	Renovated during month of September 2022. Chiller repaired and functioning adequately.	
5	Skilled and qualified faculty & other staff	Adequate qualified Ph.D./ M Phil/ FCPS faculty for preclinical and clinical students available fulfilling PMDC criteria of student: teacher ratio.	December 2024
6	Skill Labs	Well-equipped for pre-clinical and clinical students, we also have a simulation lab containing Manikins for practicing common preclinical and clinical skills.	December 2024
7	Libraries	Qualified Librarian appointed and all shelf of library are up to date. 20 Desk top with high-speed internet are available within premises of Central library. Facility of Lending text books available to all those students who are registered with library.	December 2024
8	Hospital	Teaching hospital (Muhammad Medical College Hospital) with required specialties necessary for training of clinical students is functioning well with adequate paramedic staff and facility of ER and ICU.	December 2024
9	Office of Students affairs	All affairs including interpersonal conflict related to students are dealt with. Elective policy initially dealt at this office and final approval is required from the office of Vice Chancellor (academic)	Established in 2018 and functioning
10	Research cell/Office	Working under supervision and guidance of Director Medical Education	Established in Oct 2022

- *Provide for each objective how it was measured, when it was measured and improvements identified and made.*

Following table provides a format for program objectives assessment.

Objective	How measured	When measured	Improvement identified	Improvement made
1,2,3,4,5,	Assessments (SEQs, MCQs & OSPE)	Weekly Moodle Test +Monthly+	Development of New block for OSPE examination; development of	Three sessions of CHPE have been conducted so far and almost 65

		Quarterly OSCE test and final examination	autonomous Q- Bank with dedicated staff. CHPE course for all faculty members must be made compulsory.	Faculty members completed course, now implementing the knowledge achieved.
6,7,8,9,10,	Assessments (OSCE)	Final Examination	OSCE building. Faculty should be involved in development of OSCE within the premises of OSCE building	Faculty members are participating actively in OSCE formation.
11, 12	Assignment/Power Point Presentation	Compulsory for Clinical students	Department of Medical Education has made it convenient to arrange workshop regularly for undergraduates.	Schedule for these workshops is issued with academic calendar
13-15	Teachers' evaluation survey (<u>Annex A)</u>	2022	Teaching methodology, How to writing MCQs	Workshop is done.
	Other surveys	2022	Professionalism	Professionalism workshops has been arranged

The program must have documented outcomes for graduating students. It must be demonstrated that the outcomes support the program objectives and that graduating students are capable of performing these outcomes.

- Describe how the program outcomes support the program objectives. In Table show the outcomes that are aligned with each objective.

PROGRAM OUTCOMES

Degree of knowledge, skill, attitude, research and community services that will reflect on their performance as doctors

1. Students shall have an ability to demonstrate respectful and effective verbal and non-verbal interpersonal communication skills with patients and their families from all socioeconomic and cultural backgrounds.
2. Students shall have an ability to obtain appropriate medical histories that include psychosocial and behavioural factors that influence health.
3. Students shall have an ability to perform accurate physical examinations.
4. Students shall have an ability to perform basic procedures necessary for the practice of medicine.
5. Students shall have an ability to demonstrate their ability to communicate effectively with members of the medical community.
6. Students shall have an ability to demonstrate the ability to provide appropriate patient care in a multidisciplinary setting for the promotion of health and treatment of health problems.
7. Students shall have an ability to demonstrate a commitment to professional responsibilities, adherence to ethical behaviour, interest for research and evidence-based medicine and sensitivity to patients of diverse backgrounds.
8. Students shall have an ability to demonstrate an awareness of the larger context and system of health care and its impact on patients and the practice of medicine

Program Objectives	Outcomes							
	1	2	3	4	5	6	7	8
1		√	√	√		√	√	√
2		√	√	√	√	√	√	√
3	√	√			√	√		√
4		√			√	√	√	√
5					√		√	√
6		√	√			√	√	√
7		√	√	√		√	√	√
8	√	√	√		√	√		√
9	√				√	√	√	√

10	√				√	√	√	√
11	√	√	√	√	√	√	√	√
12	√	√	√	√	√	√	√	√
13	√	√	√	√	√	√	√	√
14			√	√	√	√	√	√
15	√				√	√	√	√

STANDARD 2: CURRICULUM DESIGN AND ORGANIZATION

Provide the following information about the program's curriculum:

Title of degree

- MBBS

Duration

- Five years

Current status of degree plan

MBBS program is of five-year duration with annual system. Active session of each year is of 9 months including preparatory leave and 02 weeks examination. (May need formulation based on modular system if incorporated)

- Course title MBBS
- Course objectives and outcomes Standard-1

- Catalogue description
- Text book(s) and references Subject oriented
- Syllabus breakdown in lectures
- Computer usage Separate computer lab facilities for boys & Girls.
- Laboratory Department labs at present in line to accredating bodies

(Curriculum of MBBS subject wise is attached as Annex)

[illegible]

Infection Control	2		2		2	4	6	8		6	30
Total Contact Hours											5930

Standard 2-1: The curriculum must be consistent and support the program's documented objectives.

1st Professional (1ST YEAR) MBBS

S #	Subject	Program Objectives														
		I					II			III			IV			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Anatomy-I	√				√							√			√
2	Physiology-I	√				√							√			√
3	Biochemistry-I	√				√							√			√
4	Pakistan studies												√			
5	Islamiat												√			

1nd Professional (2ND YEAR) MBBS

S · N o	Subject	Program Objectives														
		I					II			III			IV			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Anatomy-II	√				√						√				√
2	Physiology-II	√				√						√				√
3	Biochemistry-II	√				√						√				√
4	Pakistan studies											√				
5	Islamiat											√				

2nd Professional MBBS

S · N o	Subject	Program Objectives														
		I					II			III			IV			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Pharmacology					√							√			√
2	Forensic Medicine					√							√	√		√

3rd Professional

S · N o	Subject	Program Objectives														
		I					II			III			IV			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Pathology		√			√	√	√					√	√	√	√
2	Community Medicine		√	√	√	√	√	√	√	√	√	√	√			√

4th Professional (Final year) MBBS

S · N o	Subject	Program Objectives														
		I					II			III			IV			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Medicine		√	√	√	√	√	√	√	√	√	√	√	√	√	√
2	Surgery		√	√	√	√	√	√	√	√	√	√	√	√	√	√
3	Gynaecology, Obstetrics		√	√	√	√	√	√	√	√	√	√	√	√	√	√
4	Eye		√	√	√	√	√	√	√	√	√	√	√	√	√	√
5	ENT		√	√	√	√	√	√	√	√	√	√	√	√	√	√
6	Paediatrics		√	√	√	√	√	√	√	√	√	√	√	√	√	√

Theoretical background, problems analysis and solution design must be stressed within the program's core material.

Elements	Courses	Mode of Assessment
Theoretical Knowledge	<ul style="list-style-type: none"> · Lectures & demonstrations about, <ul style="list-style-type: none"> -human body structure and function in basic sciences -Structural, functional and biochemical changes in diseased states -Structure, mechanism of action, effects and side-effects of drugs 	<ul style="list-style-type: none"> · Quarterly internal assessment theory papers. · Carrying ten percent (10%) weightage. Annual examination theory papers having ninety (90%) weightages. (MCQs, SEQs)

	-legal and ethical issues regarding medical practice -Diagnosis and treatment of diseases -awareness about ongoing research in medical field	
Problem Analysis	Practical in basic sciences Clinical methods in clinical sciences, based on theoretical knowledge	· OSPE OSCE/ Short & long cases on patients
Problem Solving	Scenario Based teaching Assignment writing	Approval by standing committee

Note *: it is important to note that the board of studies for MBBS shall be revised as per the approved rules & regulations of the Ibn-e-Sina University, and the guidelines of HEC, FCPS/Ph.D. degree holders shall be the part of the relevant statutory bodies to revise the courses specifically as needed.

STANDARD 3: SUBJECT SPECIFIC FACILITIES

ANATOMY:

Infrastructure	Min requirement	Deficiency	Purpose built	Required
Laboratory	1052 sq. ft	Y/N	Y	N
Tutorial room	250 sq. ft	Y/N	Y	N
Lecture hall	1344 sq. Ft	Y/N	Y	N
Departmental library		Y/N	Y	N
AV system		Y/N	Y	N
Maintenance /cleanliness		Y/N	Y	N
Fire & safety		Y/N	Y	
Offices' area	Approx. 593 sq. ft provided to each faculty member	Y/N	Y	
Computer & Internet facility	provided to each faculty member. Each office has facility of WIFI.	Y/N	Y	N

Description	Required For 1 to 100 Student	Deficiency	Remarks
Dissection hall	2118 sq ft	Nil	
Mortuary refrigerator of 6 capacity of human corps	1	Nil	
Cadavers	6	6	
Cadavers' tables	6	Nil	
Appropriate dissecting instruments for 6 cadavers	6	Nil	
Stools	50	Nil	
Histology Laboratory	1052 Sq fr		
Binocular microscope	25	Nil	
Slide projecting microscope	1	Nil	
Refrigerator large	1	Nil	
Computer with internet facility	1		
Scanner	1	Nil	
Colour laser printer	1	Nil	
Stool	30	Nil	
Cidar wood oil		Nil	
Embryology slide set	1 set		
Neuro anatomy slide	1	Nil	
Histology slide sets	3	Nil	
Anatomy Museum	1020 sq.ft		
Torso	1	Nil	
Upper limb	1	Nil	
lower limb	8	Nil	
head & nick	7	Nil	
Special senses	1	Nil	
Brain	6	Nil	
Histology models every system			
Embryology models every system	1	Nil	
Loos bones (human)	150		
Articulated skeleton	7	Nil	
Articulated vertebral column	4	Nil	
Anatomy charts every system	24	Nil	
Cross sectional body	1	Nil	
Anatomy CDs	All systems available	Nil	

Embryology slides sets	1	Nil	
Neuro anatomy model sets	8	Nil	
Teaching Aids			
Slide projector	1	Nil	
Overhead projector	1	Nil	
Multimedia	1	Nil	
White boards	3	Nil	

Lab 2: Physiology lab

S #	PHYSIOLOGY	Min Required Quantity For 100 Students	Deficiency	Remarks Working/ Not Working/ Available
1	Sphygmomanometer	15	00	55
2	Microscope Binocular	10	00	15
3	Hemocytometer	20	00	20
4	Hemoglobin meter	15	00	15
5	Spectrophotometer	2	00	2
6	Perimeter Complete	11	00	12
7	ESR Pipette	25	00	25
8	Percussion Hammers	20	00	20
9	Oxygen Cylinders	2	00	02
10	Thermometer Clinical	30	00	30
11	Stop watch	19	00	34
12	Tunning Foreps 100Hz	15	00	15
13	Students Kymograph	5	00	05
14	ECG Machines	2	00	02
15	Centrifuge laboratory	1	00	02
16	Microhematocrit regular	5	00	05
17	Microhematocrit centrifuge	1	00	01
18	Vision E type	5	00	05
19	Ishihara Chart	5	00	05
20	Vital graph compact.	2	00	2
21	Weighing machine	2	00	06
22	Stethoscope	20	00	30
23	pH meter clinical	1	00	01
24	Balance Analytical	2	00	2
25	Oven electric with Thermostat	2	00	2
26	Students' spirometer	7	00	07
27	Frog's Board (Trays SS12s 10, Trays, ELI 10, Dissecting forceps and plain scissors)	10	00	10
28	Data acquisition system (power lab)	4	00	00

29	Tred mill	2	00	00
30	Finger pulse oximeter	2	00	00

Lab 3 Biochemistry

S N O	SPACE	PM&DC REQUIREMENT S	AVAILABLE QUANTITY	DEFICIENCY/ ADDITIONAL LY REQUIRED
01	Laboratory with Appropriate Size with Min Area 1400 sq. ft (Table top working Capacity for 50 Students)	01 (Minimum area 1400 sq. ft)	02 (1020 Sq. Ft) 01 Research Lab. (1020 Sq. Ft)	
02	Store with Cupboards & Racks	01	01 (110 sq. Ft)	Nil
03	Office of Prof with attached Bathroom (Min size 150 sq ft) with IT & Communication facility	01	01 (100 sq. Ft)	Nil
04	Office of Associate Prof with attached Bathroom (Min size 120 sq ft) with IT & Communication facility	01	01 (100 sq. Ft)	
05	Office of Assistant Prof with attached Bathroom with IT & Communication facility	01	01 (100 sq.ft)	
06	Staff Room for Male Lecturers with attached Bathroom with IT & Communication facility	01	01 (100 sq ft)	
07	Staff Room for Female Lecturers with attached Bathroom with IT & Communication facility	01	Nil	

NO	NAME AND DESCRIPTION OF ITEMS	MANDATORY REQUIREMENT	AVAILABLE	DEFICIENCY	REMARKS
01	Spectronic 20: Wave Length: 340 - 950nm 220 VOLTS. (50-60hz)	02	02	Nil	

02	Photoelectric colorimeter: ERMA, AE – 11 China	03	03	Nil	
03	pH Meter: 0 to 14, Res: 0.01, Temp: 5 C to 105 C, Cal: Max 3 Points, Buffer Group, 120 Volts	05	05	Nil	
04	Incubator (large size): Temp range: 60 C _0.5 C, Stainless steel Interior 240 V	01	01	Nil	
05	Water Distillation Appliance: Stainless Steel Distiller 220V, 5kW China, 5 Litre	01	01	Nil	
06	Water Bath: - 04 Hole, Temp: 37- 100°C, 220V, 50Hz, China - Microprocessor Controlled Water-bath	7	7	Nil	
07	Binocular Microscope: Binocular 4X, 10X, 40X, 100X(Oil); 230volts	15	15	Nil	
08	Analytical Electrical Balance Single: 115/230 V, 50/60 HZ, 80 mm pan (LXWXH) 340X210X345) mm	04	04	Nil	
09	Balance Electric top loading: <i>AFD GF200</i> 0.01g to 200 g, <i>AFD GF300</i> Electronic Balance 0.02g to 310g	03	04	Nil	Nil
10	Balance Electric H80: China	04	04	Nil	
11	Centrifuge: Power Supply: 220- 240v, 50/60hz. Max Capacity: 8 X 10 ml.	04	04	Nil	
12	Stop Watch: One button operation, 0 – 30 min, 1/5 sec recorder, 13 jewels, metal case, Anti-magnetic, lever movement	20	30	Nil	
11	Hot Box Oven: Temp sensitivity ±0.5 °C Chamber Dimensions: 15.5" X 18.5" X 15" (390X470X380 mm) Exterior Dimensions: 21.5" X 24" X 28" (550X610X715 mm) Chamber Volume: 2.5cubic ft,	2	2		

	(71.5 Lit) Power: 115 V, 1.2 kW, 10.4 A				
12	Cell Homogenizer: Variable speed: 5000 – 30, 000 rpm. Volume : 0.03 – 1500 ml, 115 Volts	02	02		
13	Gel Electrophoresis: Horizontal Unit. Gel Dimension 10 X 7 Cm, Complete System E UV Tray 10 X 7 cm. One Comb For 10 Samples. Thickness 1.00 mm and One Comb For 15 Sample Thickness 1.00 With Leads. Digital Voltage Ranges 10-300 V In 1 V Step, Current 4-400 mA In 1 mA Steps. 75 Watts.	02	02		
14	Refractometer: Auto Abbe Refractometer: Illuminations: 10 W, Tungsten Halogen with 589 nm band pass, Display direct reading LCD	02	Nil		
	Range dissolve solid 0 – 85 %, Temperature 10 - 40 °C				

NO	NAME AND DESCRIPTION OF ITEMS	MANDATORY REQUIREMENT	AVAILABLE	DEFICIENCY	REMARKS
01	Spectronic 20: Wave Length: 340 - 950nm 220 VOLTS. (50-60hz)	02	02		
02	Photoelectric colorimeter: ERMA, AE – 11 China	03	03	Nil	

03	pH Meter: 0 to 14, Res : 0.01, Temp : 5 C to 105 C, Cal : Max 3 Points, Buffer Group, 120 Volts	10	Nil		
04	Incubator (large size) : Temp range : 60 C _0.5 C, Stainless steel Interior 240 V	02	Nil		
05	Water Distillation Appliance: Stainless Steel Distiller 220V, 5kW China, 5 Litre	02	Nil		
06	Water Bath: - 04 Hole, Temp : 37-100°C, 220V, 50Hz, China - Microprocessor Controlled Waterbath	07	Nil		
07	Binocular Microscope: Binocular 4X, 10X, 40X, 100X(Oil); 230volts	05	15		
08	Analytical Electrical Balance Single: 115/230 V, 50/60 HZ, 80 mm pan (LXWXH) 340X210X345) mm	02	02	Nil	
09	Balance Electric top loading: AFD GF200 0.01g to 200 g, AFD GF300 Electronic Balance 0.02g to 310g	03	03		
10	Balance Electric H80: China	04	Nil		
11	Centrifuge: Power Supply: 220-240v, 50/60hz. Max Capacity: 8 X 10 ml.	04	04	Nil	
12	Stop Watch: One button operation, 0 – 30 min, 1/5 sec recorder, 13 jewels, metal case, Anti-magnetic, lever movement	20	20		
11	Hot Box Oven: Temp sensitivity ±0.5 °C Chamber Dimensions: 15.5" X 18.5" X 15" (390X470X380 mm) Exterior Dimensions: 21.5" X 24" X 28" (550X610X715 mm) Chamber Volume: 2.5cubic ft, (71.5 Lit) Power: 115 V, 1.2 kW, 10.4 A	02	02		
12	Cell Homogenizer: Variable speed: 5000 – 30, 000 rpm. Volume: 0.03 – 1500 ml, 115 Volts	02	02		

13	<p>Gel Electrophoresis: Horizontal Unit.</p> <p>Gel Dimension 10 X 7 Cm, Complete System E UV Tray 10 X 7 cm.</p> <p>One Comb For 10 Samples. Thickness 1.00 mm and One Comb For 15 Sample Thickness 1.00 With Leads.</p> <p>Digital Voltage Ranges 10-300 V In 1 V Step, Current 4-400 mA In 1 mA Steps. 75 Watts.</p>	02	02		
14	<p>Refractometer: Auto Abbe Refractometer:</p> <p>Illuminations: 10 W, Tungsten Halogen with 589 nm band pass, Display direct reading LCD Range dissolve solid 0 – 85 %, Temperature 10 - 40 °C</p>	02	02		

NO	NAME AND DESCRIPTION OF ITEMS	MANDATO RY REQUIRME NT	AVAILAB LE	DEFICIEN CY	REMAR KS
GLASS WARES					

1	Beaker 500 ml		1108		
	250 ml		12		
	100 ml		09		
2	50 ml				
	Graduated Cylinders		10		
	2000 ml		04		
	1000 ml		08		
	250 ml		04		
	100 ml		06		
	25 ml		06		
3	10 ml				
	Conical		05		
	Flasks 500 ml		30		
			34		
4	250 ml				
	100 ml		50		
	Pipette 10 ml		15		
			15		
5	5 ml		15		
			100		
6	2 ml	Adequate			
	1 ml	e	04		
	Volumetric Flask	Amount	10		
	100 ml		10		
	Adjustable				
7	Pipettes 5000µl		18		
	1000µl		18		
	100µl				
8			46		
9	Stainless		20		
10	Steel Spirit		18		
11	Lamps Glass		25		
12	Lamps		02 Packs		
13	Burettes		30		
14	pyrex				
	Stirrers		97		
15	pyrex Glass		150		
16	Lids Pyrex				
	Capillary Tubes, Pyrex		150		
	Slides pyrex		180		
17	Centrifuge Tubes 1000ml		09		
18	Reagent Bottles		20		
	125ml				

	I 60ml Test Tubes 10" X 12" inches 6mm Pestle & Morter 4 inch Wash bottles plastic				
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Lab 4 Pharmacology

S#	Name of article	Quantity	Page #	Remarks
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	Kymograph for student	8	10	
	Kymograph printed chart 6x9	20	20	
	Single tissue bath (organ bath)	10	10	
	Pharmacology stand	10	10	
	Reservoir holder	10	10	
	Constant head	10	10	
	Spatula stainless steel	10	16	
	Industrial balance with weight box 0.1 mg to 100 gm	5	19	
	Oxygen cylinder large	2	20	
	Oxygen gage	2	21	
	Copper tube 3 ways	10	22	
	Artery forceps 6" stainless steel	20	23	
	Simple forceps medium	11	24	
	Surgical blade	2 boxes	25	
	Iron stand for oxygen cylinder	2	26	
	Scissor curved small	10	27	
	Scissor straight small	10	27	
	Scissor medium straight	10	28	
	B.P apparatus	2	29	
	Stethoscope	25	30	
	Examination couch	1	33	
	Sphygmomanometer mercurial	2	36	
	Injectable training arm	1	40	
	Digital water bath 4 holes	1	46	
	Test tube holder	15	48	
	Microscope Italy optika model B-180 s.no 243257	1	69	
	Wooden boxes for rabbits	12	74	
	Water distiller stainless steel	1	81	
	Centrifuge digital 6 holes	1	82	
	Electric Heater	1	85	
	Steel cages	13	91	
	P.H meter portable	1	92	
	Electronic balance from 0.1gm to 400gm	1	93	

Furniture & Fixture

S#	Name of article	Quantity	Remarks
1	Office chairs executive	2	

2	Office chair cane	3	
3	Wooden stools	25	
4	Iron table with 2-piece marble	1	
5	White board (7x4)	2	
6	Office table	2	
7	Cupboard fixed in office	1	
8	Science table with marble top Museum	1	
9	Showcase fixed in museum wall (medicine)	11	
10	Plastic chair	2	
11	Lab rack wooden	3	
12	Wooden shelves fixed in lab	7	
13	Computer table in office	1	
14	Wash basin	4	
15	Marble shelves with iron stand with double wooden door	3+10 marbles	
16	Lab table marble with iron stand	Marble piece 13 iron stand 5	

Part II

Infrastructure	Min Requirement	Available Capacity	Deficiency	Purpose built	Remarks
Laboratory	500 Sq. ft	1185 sq. Ft		Y/N	
Tutorial Room		135 sq. .ft		Y/N	Demonstration room
Lecture Hall		2282 Sq.ft		Y/N	can Accommodate 150 Students
Departmental library		Yes		Y/N	
AV System				Y/N	Multimedia available
Maintenance/cleanliness				Y/N	Satisfactory
Fire & safety		Yes		Y/N	
Office(s) a) area b) Computer and net facility	a) 500 Sq. ft b) Provided to each faculty	a) 500 sq. Ft b) one compute		Y/ N Y/ N	

		r			
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	PHARMACOLOGGY & THERAPEUTICS	Required	Available	Deficiency
1	Organ Bath	5	10	NIL
2	Oxygen Cylinders and Regulators	3	3	Nil
3	Animal Operation Tables	2	3	Nil
4	Respirators	4	4	
5	Kymographs (2 channels)	2	8	NIL
6	Polygraphs complete (Two channels)		available	
7	Audio-visual facility and experimental CDs of Pharmacology practical.	5	6	
8	Experimental Animal including Rabbits, Guinea Pigs and Dogs	100 animal/year		
9	Freezer 14"	2	6	
10	Electronic Balance	2		NIL
11	BP apparatus.	20	25	NIL
12	Stethoscope	20	25	NIL
13	Torches	15	15	Nil
14	Scissors	30	30	NIL

Lab. 5: Pathology.

Laboratory Title	Pathology
Location and Area.	KIMS
Objectives	To study pathological changes in human body
Adequacy of Instruction	Staff: deficient, Faculty and supporting both : Demand: Annexure-5a

Safety regulations	Partially available
Courses taught	MBBS III and IV YEAR, BDS II YEAR
Software available If applicable	Not available (soft ware of teaching slides and videos, laboratory software for data collection, compilation and reporting)
Major apparatus	Auto processor available (further requirement is submitted: Annexure- 5b)
Major Equipment	Multiheaded microscope, autoclave, incubator, Hot air oven available (further requirement is submitted: Annexure- 5b)

Name of Department/Institute - PATHOLOGY DEPARTMENT

**Name of Head of Department/Institute -Prof
Farzana Chang Muhammad Medical
College**

S.NO	Item Name	Quantity	Specification if application	Location	No. of items those are in working condition	No. of items those are not in working condition	No. of items need be repaired	No. of items Condemn
1	Centrifuge digital	1		Patho lab	1			
2	Binocular microscope	31		Patho lab	31			
3	Centrifuge	4		Patho lab	4			
4	Sigma digital	1		Patho lab	1			
5	Teaching microscope	1		Patho lab	1			
6	Physical balance with wt. Box	1		Patho lab	1			
7	Photo chlorometer (Erma)	1		Patho lab	1			
8	Digital water bath	1		Patho lab	1			
9	Tissue processor	1		Patho lab	1			
10	Steel mould	5		Patho lab	5			

11	Digital weight machine	2		Patho lab	2			
12	Trinocular microscope	2		Patho lab	2			
13	Wire loop	15		Patho lab	15			
14	Water distillation plant	1		Patho lab	1			
15	Fridge	1		Patho lab	1			
16	Microtone	2		Patho lab	2			
17	Wise bath	1		Patho lab	1			
18	ESR stand	5		Patho lab	5			
19	Test tube rack	5		Patho lab	5			
20	Pipette stand	5		Patho lab	5			
21	Dropping bottles	19		Patho lab	19			
22	Wood slide stand	4		Patho lab	4			
23	Slide tray	9		Patho lab	9			
24	Scalpel	1		Patho lab	1			
25	Probe	1		Patho lab	1			
26	Tissue	2		Patho	2			

	force ps			lab				
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S.NO	Item Name	Quantity	Specification if applicable	Location	No. of items those are in working condition	No. of items those are not in working condition	No. of items need be repaired	No. of items Condemn
27	Scissors	2		Patho lab	2			
28	Artery forceps	1		Patho lab	1			
29	knives	2		Patho lab	2			
30	Slide tray	1		Patho lab	1			
31	L_shap mould	15		Patho lab	15			
32	Steplizar	1		Patho lab	1			
33	Incubator	2		Patho lab	2			
34	PH meter	1		Patho lab	1			
35	Hot air oven	2		Patho lab	2			
36	Water bath	1		Patho lab	1			
37	Electric balance	1		Patho lab	1			
38	Centrifuge (sigma 1-14)	1		Patho lab	1			
39	Centrifuge machine (EB series)	1		Patho lab	1			

40	Auto clove sterilizer	2		Path o lab	2			
41	Pencil Dimond	1		Path o lab	1			
42	Ad Juster 10_100 ul	1		Path o lab	1			
43	Ad Juster 1ml	1		Path o lab	1			
44	Haematology Analyzer	1		Path o lab	1			
45	Florescent Microscope	1		Path o lab	1			
46	UPS with batterie s	1		Path o lab	1			

S.N O	Item Name	Quantity	Specification if application	Location	No. of items those are in working condition	No. of items those are not in working condition	No. of items need be repaired	No. of items Condemn
1	Computer complete Pentium 4 Seats	3		office	3			
2	Telephone set	1		Office	1			
3	HP printer	1		Office	1			
4	Ext board	1		Office	1			
5	Multi media	1		Lecture Hall3	1			

6	CPU with key board & mouse	1		Lecture Hall3	1			
7	Bell remote control	1		Office	1			
8	Electric heater	2		office	1			
9	HP Scanner	1		office	1			
10	Split AC	2		Lab & tutorial 2	2			
11	A/c window	1		office	1			

S. N O	Item Name	Quantity	Specification if applicable	Location	No. of items those are in working condition	No. of items those are not in working condition	No. of items need be repaired	No. of items Condemn
1	Wooden stools	32		Path o lab				
2	Sliding table	1		Path o lab				
3	Wooden shelf	1		Path o lab				
4	Fixed table	7		office				
5	Office table 2.5*5*3	1		office				
6	Rolling	1		office				1

	chair							
7	Chair cane	6		office				
8	Sofa set	3		office				
9	Table computer	1		office				
10	Side table	1		office				
11	Computer table large	1		office				
12	Steel chair	1		Patho lab				
13	Cupboard	8		museum				1
	65_1(full lamination)							
14	Rostrum	1		Lecture hall				
15	Office table small	2		office				
16	Student chair	33		Lecture hall				
17	Table Executive	1		office				
18	Office table 2.5 *5 *3	1		office				
19	Library cupboards	2		office				
20	carpet	1		office				1

21	Executi v e Table Special with side Rack comm. comput er table and, Book Showca s e on Back Wall	1		office				
22	Woode n shelf cupboa r d	4		offic e s				
23	<u>Revolvi</u> <u>n g</u> <u>chair</u> <u>Executi</u> <u>v e</u>	2		offic e s				

PATHOLOGY LABORATORY REQUIREMENTS

DETAILS OF ITEMS DEMANDED

S. No	Equipment/Name of item	Quantity	Company / manufacturer	Unit Rate (Rs.)	Total AMOUNT (RS.)
	Microscope Binocular	4	Nikon	250000	1000000
	Microscope Trinocular with camera and TV display	2	Nikon	300000	600000
	Florescent Microscope	1	Nikon	300000	300000
	Centrifuge ordinary	1	China	4000	4000
	Centrifuge sigma digital	1	Germany	25000	25000
	Microcentrifuge	1	Germany	40000	40000
	Incubator	1	Taiwan	40000	40000
	Microwave Oven	1	Taiwan	10000	10000
	Refrigerator	1	PEL	45000	45000
	Digital Balance	1	China	4000	4000
	Water distillation plant	4	Germany	25000	50000
	Water bath	1	China/Taiwan	6000	6000
	Wise bath	1	USA	8000	8000
	Burner	10	Local	500	5000
	Wire loops	20	Local	200	4000
	Slide racks	24	Local	300	7200
	Slide boxes	50	Local	500	25000
	Test tubes small Pyrex	300	Pyrex	10	3000
	Test tubes large Pyrex	100	Pyrex	20	2000
	Large Test tubes racks	12	Local	50	600
	Small Test tubes racks	12	Local	70	8400
	Autoclaves	2	China	20000	40000
	PCR Machine	1		2500000	2500000
	ELISA strip reader	1		500000	500000
	UPS (2000 watts)	2		30000	60000
	Batteries for UPS (225 Amp)	2		15000	30000
	Hot plate	1		1000	1000
	Media shaker	1		1500	1500
	Lens hand held -magnifying -6-inch diameter	2		500	1000
	Voltage stabilizer regulator (7000 watts)	1		8000	8000
	Sphygmomanometer complete	1		1000	1000
	Thermometer 30-110 °C	2		100	200
	Anaerobic jars	2		500	1000
	Cover slip glass	10 packs		1250	12500

	Culture swab sterile pkt of 100	5		500	2500
	Gloves latex 8 size	5 pkt		500	2500
	Plastic container plain 30 ml for urine R/E	10 pkt		250	2500
	Plastic Container sterile 50 ml For Urine Culture	10 pkt		500	5000
	Stool container-spoon and stopper	50		5	250
	Test tubes small Pyrex with screw cap	50		20	1000
	Test tubes medium Pyrex with screw cap	200		25	5000
	Test tubes large with screw cap	50		30	1500
	Conical flask 100 ml pyrex	10		500	5000
	Conical flask 500 ml pyrex	2		1000	2000
	Glass jars 500 ml capacity	10		1000	10000
	Haematology analyser (Sysmex KX21)	1		900000	900000
	Micro lab 300	1		400000	400000
	Westergren's tubes	50		100	5000
	Stands for Westergren's tubes	10		500	5000
	Bone marrow aspiration needles	1 SETS		500	500
	Trephine needles	1		1000	1000
	Hb electrophoresis analyser	1		300000	300000
	Scanner	1		6000	6000
	Computer table	1		10000	10000
KITS FOR PRACTICAL WORK					
	HIV device (ICT)	100		30	3000
	Pylori device (ICT)	100		80	8000
	Anti-DNA (ANA/ANF) 50 test	4		5000	20000
	ASO Titre 50 tests kit	10		1500	15000
	Brucella abortus/melitensis 100 tests kit	2		1500	3000
	Faecal occult blood –stool strip (50 strips pack)	2		1000	2000
	Multistix-urine 9 parameter (bottle)	5		700	3500
	VDRL (RPR) latex	1		1600	1600
	TPHA latex	1		2000	2000
	Toxoplasma latex kit of 50	1		3000	3000
	Typhidot test devices pack	2		3200	6400
	Widal –AO antigen	4		1000	4000
	Widal –AH antigen	4		8000	32000
	Widal –BO antigen	4		8000	32000
	Widal –BH antigen	4		8000	32000
	Widal –CO antigen	4		8000	32000

	Widal –CH antigen	4		8000	32000
	Widal –TO antigen	4		8000	32000
	Widal –TH antigen	4		8000	32000
	Blood glucose kit	1		1600	1600
	Blood urea kit	1		2000	2000
	Creatinine kit	1		2000	2000

CULTURE MEDIA AND SENSITIVITY DICS

1	Blood Base Agar (500 gm)	10		1000	10000
2	MacConkey agar (500 gm)	10		1000	10000
3	MacConkey broth (50 mL)	20		1000	20000
4	MacConkey with sorbitol agar (500 gm)	5		1000	5000
5	Nutrient Agar (500 gm)	4		1000	4000
6	CLED Agar (500 gm)	4		1000	4000
7	TCBS Agar (500 gm)	2		3000	6000
8	KIA (500 gm)	2		3000	6000
9	Muller Hinton Agar (500 gm)	10		3000	30000
1	Tryptic Soya Broth Biphasic Medium for children (25ml)	10		3000	30000
1	Tryptic Soya Broth Biphasic Medium for Adult (50ml)	50		3000	150000
1	Saboraud Dextrose Agar	2		3000	6000
1	Amies Transport swab 100	1		300	300
1	Cary-Blair Transport Medium	50		300	15000
1	Antibiotic disks ampicillin, Augmentin, cefixime, calotxin, ceftriaxone, aztreonam, imipenem, carbenicillin vancomycin, Erythrocin, clarithromycin, cotrimoxazole, trimethoprim, Tetracycline, doxycycline, chloromycetin, macrodantin, Fosfomycin, Ofloxacin, Ciprofloxacin, amikacin, Gentamycin, Nalidixic acid, Macrodentimetronidazole, Bcitracin, Novobiocin, (each cartridge of 50 discs)	100		5000	500000
1	BACITRICINE DISK DIAGNOSTIC	10		5000	50000
1	NOVOBICINE DISK	10		5000	50000
1	OPTOCHIN DISK	10		5000	50000
1	GETIFLOXACIN DISK	2		5000	10000
STAINS					
	Gram Stain readymade (kit of 4)	16		2000	32000

	Crystale violet 500 gm	1		500	500
	Potassium ioide 500 gm	1		500	500
	Stain iodine 500Gm	1		400	400
	Ethyle alcohol 2.5 litre	2		650	1300
	Methyl Alcohol 2.5 L	1		800	800
	Neutral red 100gm	1		500	500
	Z N Stain ready-made (kit of 3)	12		1000	12000
	Basic fuchsin (bottle)	1		800	800
	Phenol (bottle)	1		1000	1000
	Malachite green 100gms	2		500	1000
	Albert stain ready-made (kit of 2)	4		2000	8000
	Lactophenol blue stain	2 bottles		500	1000
	Basic stains(Leishman's)	5		1500	7500
	Special stains (PAS)	1		500	500
CHEMICALS					
20	Barium chloride for fouchets tests (standardization)	1 bottle		500	500
21	Benedict solution	2 litres		100	200
22	Beta lactamase touch sticks	1 bottle		400	400
23	Cedarwood oil	3 bottle		1000	3000
24	Hydrogen peroxide for catalase	10 bottles		200	2000
25	Oxidase reagent	5 bottles		2500	12500
26	Peptone powder	1 bottle		500	500
27	Potassium hydro-oxide (KOH)	1 bottle		500	500
28	Xylol -pure	5 litre		2000	10000
29	Formalin 2.5 L	2		2000	4000
30	Anticoagulants (EDTA)	1		5000	5000
31	Drabkin's solution	1		3000	3000
32	Phenol/Bleach solution	10 litres		500	5000
33	KMnO4 crystals	1 kg		5000	5000

34	HCl pure 2.5 L	2		1000	2000
35	KOH	2 bottles		1500	3000
36	Sulphuric acid pure 2.5 L	2		2000	4000
CHEMICALS					
37	Teaching slides of Histopathology for the following Headings	10 slides for each practical		500 per slide	
38	Granuloma	10		500	5000
	Caseation necrosis	10		500	5000
	Plasmodia	10		500	5000
	L.D. bodies	10		500	5000
	Necrosis	10		500	5000
	Atrophy Testis	10		500	5000
	BPH	10		500	5000
	Calcification	10		500	5000
	Fatty change	10		500	5000
	Amyloidosis	10		500	5000
	Acute appendicitis	10		500	5000
	Chronic	10		500	5000
	cholecystitis	10		500	5000
	Tuberculosis	10		500	5000
	Granulation tissue	10		500	5000
	Passive venous	10		500	5000
	congestion	10		500	5000
	Plasmodia	10		500	5000
	L.D. bodies	10		500	5000
	Lipoma	10		500	5000
	Adenoma	10		500	5000
	breast	10		500	5000
	Squamous cell	10		500	5000
	carcinoma, Basal cell				
	carcinoma, Carcinoma				
	breast				

Grand Total= 84,14,450/=

COMMUNITY MEDICINE

S. N O	Item Name	Quantity	Specific at ion if applicati o n	Locati o n	No. of items those are in worki n g condi ti on	No. of items those are not in worki n g condi ti on	No. of item s nee d be repa ir ed	No. of item s Cond e mn
	<u>LABORAT O RY EQUIPME N TS (GLASSW A RE)</u>							
1	Section Of Iron Oxide In Filtrated Lung	01 Nos	--	C. Medic i ne	01 Nos	--	--	
2	Typhoi d Tongu e	01 ,,	--	C. Medic i ne	01 ,,	--	--	
3	Late Stage Of Syphilitic Gamma	01 ,,	--	C. Medic i ne	01 ,,	--	--	
4	Keratoti c Follicles & Scalines s	01 ,,	--	C. Medic i ne	01 ,,	--	--	
5	Coal Miner's Lung	01 ,,	--	C. Medic i ne	01 ,,	--	--	
6	Eruptio n Due To Typhus	01 ,,	--	C. Medic i ne	01 ,,	--	--	
7	Pustule Eruption In Small Pox	01 ,,	--	C. Medic i ne	01 ,,	--	--	

8	Incinerator	01 //	--	C. Medicine	01 //	--	--	
9	Squatting Seat with Cover Model	01 //	--	C. Medicine	01 //	--	--	
10	In Sanitary Septic Tank	01 //	--	C. Medicine	01 //	--	--	
11	Activated Sludge Process	01 //	--	C. Medicine	01 //	--	--	
12	House Fly	01 //	--	C. Medicine	01 //	--	--	
13	Bed Bug	01 //	--	C. Medicine	01 //	--	--	
14	Life Cycle of Malarial Parasite (P. Vivax)	01 //	--	C. Medicine	01 //	--	--	
15	Life Cycle of P. Falciparum	01 //	--	C. Medicine	01 //	--	--	
16	Head House	01 //	--	C. Medicine	01 //	--	--	
17	Early Stage Of Syphilitic Gamma	01 //	--	C. Medicine	01 //	--	--	
18	Xerosis (Conjunctival)	01 //	--	C. Medicine	01 //	--	--	
19	Anthrax Of Face	01 //	--	C. Medicine	01 //	--	--	
20	X-Ray Of Dermatitis On Face	01 //	--	C. Medicine	01 //	--	--	

21	Lead Line on Gum	01 ,,	--	C. Medic i ne	01 ,,	--	--	
22	Typhoi d Ulcer	01 ,,	--	C. Medic i ne	01 ,,	--	--	
23	Entamoeba Histolytica	01 ,,	--	C. Medic i ne	01 ,,	--		
24	Cutaneous Leishmaniasis, Ulcers on Forearm & Head	01 ,,	--	C. Medic i ne	01 ,,	--	--	
25	Inflammation Of Large Intestine	01 ,,	--	C. Medic i ne	01 ,,	--	--	

S. N O	Item Name	Quant i ty	Specific at ion if applicati o n	Locati o n	No. of items those are in worki n g condi ti on	No. of items those are not in worki n g condi ti on	No. of item s nee d be repa ir ed	No. of item s Cond e mn
26	Septic Tank	01 No	--	C. Medic i ne	01	--	--	
27	Water Filtration	01 ,,	--	C. Medic i ne	01 ,,	--	--	
28	Subterranean Water Level	01 ,,	--	C. Medic i ne	01 ,,	--	--	
29	Pathogenic Amoeba	01 ,,	--	C. Medic i ne	01 ,,	--	--	

30	Ill Baby	01 //	--	C. Medic i ne	01 //	--	--	
31	Child With TB Lung	01 //	--	C. Medic i ne	01 //	--	--	
32	Whoppin g Cough	01 //	--	C. Medic i ne	01 //	--	--	
33	Scurvy	01 //	--	C. Medic i ne	01 //	--	--	
34	Health y Baby	01 //	--	C. Medic i ne	01 //	--	--	
35	Various Types Of Traps Commod e s (Sink)	01 //	--	C. Medic i ne	01 //	--	--	
36	Tetanus	01 //	--	C. Medic i ne	01 //	--	--	
37	Congenit a l syphilis	01 //	--	C. Medic i ne	01 //	--	--	
38	Life Cycle Of Echinococ cus Granulose s	01 //	--	C. Medic i ne	01 //	--	--	
39	Tubectom y () Female Sterilization	01 //	--	C. Medic i ne	01 //	--	--	
40	Specimen Of Pathogen i c Bacteria	01 //	--	C. Medic i ne	01 //	--	--	
41	Rickets	01 //	--	C. Medic i ne	01 //	--	--	

42	Poliomyelitis	01 ,,	--	C. Medicine	01 ,,	--	--	
43	Measles	01 ,,	--	C. Medicine	01 ,,	--	--	
44	Diphtheria - Advanced	01 ,,	--	C. Medicine	01 ,,	--	--	
45	Leishmaniasis	01 ,,	--	C. Medicine	01 ,,	--	--	
	<u>FURNITURE & FIXTURES</u>					--	--	
1	Chair Office (Yellow Cushion)	07 No	yellow cushion	C. Medicine	07 No	--	--	
2	Showcase For Models	10 ,,	6.5' * 3.0'	C. Medicine	10 ,,			
3	Office Table	01 ,,	5' * 2.8'	C. Medicine	01 ,,			

S. N O	Item Name	Quantity	Specification if applicable	Location	No. of items those are in working condition	No. of items those are not in working condition	No. of items need be repaired	No. of items condemned
4	Computer Table	01 No	--	C. Medicine	01 No			

5	Student Chair	14 //	Wooden	C. Medicine	14 //	--	--	
6	Chair Office r	01 //	Executive	C. Medicine	01 //	--	--	
7	Library Almira h	02 //	--	C. Medicine	02 //	--	--	
8	Chair Green	02 //	Executive	C. Medicine	02 //	--	--	
9	Chair s Cane	02 //	--	C. Medicine	02 //	--	--	
10	Sofa Set	01 //	--	C. Medicine	01 //	--	--	
	<u>IT/GENERAL EQUIPMENTS</u>							
1	Computer Core 2Quar d	01 No	Complete set	C. Medicine	01 No	--	--	
2	Heater Electric	01 //	--	C. Medicine	01 //	--	--	
3	Scanner	01 //	Genx	C. Medicine	01 //	--	--	
4	Laptop	01 //	--	C. Medicine	01 //	--	--	
			--			--	--	
	<u>MEDICAL EQUIPMENTS</u>		--			--	--	
1	Microscope Binocular (China)	01 //	XSZ107BN	C. Medicine	01 //	--	--	

2	Microscope Binocular (Italy)	02 ,,	Model B182 Optika, S.No. 243254 & 243249	C. Medicine	02 ,,	--	--	
3	PH Meter	01 ,,	Model (pH-220L) ISTEK Ltd Korea, S.No.200L-07020	C. Medicine	01 ,,	--	--	
4	Weight Scale	02 ,,	Beurer Germany Max. Wt=120kg	C. Medicine	02 ,,	--	--	

S.NO	Item Name	Quantity	Specification if applicable	Location	No. of items those are in working condition	No. of items those are not in working condition	No. of items need be repaired	No. of items Condemn
5	Filter Holding Assembly	01 No	Model (TC2000VM), S.No.100460	C. Medicine	01 No	--	--	
6	Centrifuge Machine	01 ,,	UK Model (E22B8) , centurion scientific UK, S.No.16364-7	C. Medicine	01 ,,	--	--	

DEPARTMENT OF FORENSIC MEDICINE

S. No	Item name	Available Quantity	Condition		No. of items needed to be REPAIRED	No. of items needed to be REPLACED	Requirements of new items, if any
			Working	Not Working			
A)	LABORATORY EQUIPMENTS (GLASSWARE)						
1	Bulb Pipette	11 No	11 No	--	--	--	--
2	Pipette Stand	05	04	01 No		01 No	--
3	Test Tube Stand	5	05	--	--	--	--
4	Test Tube Stand	4	04	--	--	--	--
5	Test Tube Stand	5	05	--	--	--	--
6	Reagent Bottle	30	30	--	--	--	--
7	Reagent Bottle	24	24	--	--	--	--
8	Reagent Bottle	5	05	--	--	--	--
9	Pipette	10	10	--	--	--	--
10	Pipette	30	30	--	--	--	--
11	Pipette	10	09	01	--	01	--
12	Pipette	30	30	--	--	--	--
13	Wire Gauze	50	50	--	--	--	--
14	China Dish	20	20	--	--	--	--
15	Pipette Pump	12	12	--	--	--	--
16	Test Tube Brush	20	20	--	--	--	--
17	Cover Slip (100 pieces)	01 Pkt	01 Pkt	--	--	--	--
18	Stirrer Glass	10 No	10 No	--	--	--	--
19	Filter Paper	03	02	01	--	01	
20	Test Tube Holder	25	25	--	--	--	--
21	Magnifying Glass	10	10	--	--	--	--
22	Magnifying Glass	05	05	--	--	--	--
23	Stopwatch	05	05	--	--	--	--
24	Clinical Thermometer	06	05	01	--	01	

25	Lab Thermometer	02	02	--	--	--	--
26	Beaker	18	18	--	--	--	--
27	Beaker	20	20	--	--	--	--
28	Beaker	05	05	--	--	--	--
29	Funnel	20	20	--	--	--	--
30	Funnel	04	04	--	--	--	--
31	Conical Flask	20	20	--	--	--	--
32	Conical Flask	20	20	--	--	--	--
33	Conical Flask	05	05	--	--	--	--
34	Round Bottom Flask	05	05	--	--	--	--
35	Volumetric Flask	20	20	--	--	--	--
36	Volumetric Flask	05	05	--	--	--	--
37	Flat Bottom Flask	05	05	--	--	--	--
38	Watch Glass	07	04	03	--	03	--
39	Burners	20	20	--	--	--	--
40	Tripod Stand	20	18	02	--	02	--
41	Test Tube	300p cs	300 pcs	--	--	--	--
42	Test Tube	100	92	08	--	08	--
43	Cylinder	07 No	07 No	--	--	--	--
44	Cylinder	10	10	--	--	--	--
45	Burette	20	18	02	--	02	--
46	Burette	20	20	--	--	--	--
47	Spirit Lamp	10	09	01	--	01	--
48	Plasticin	10	10	--	--	--	--
49	Wash Bottle	10	10	--	--	--	--

B) MEDICAL EQUIPMENTS (LABORATORY)

1	Microscope Binocular	03	03	--	--	--	--
2	Electric Balance	01	01	--	--	--	--
3	Centrifuge Machine	01	01	--	--	--	--
4	Centrifuge Machine	02	02	--	--	--	--
5	Water Distillation Apparatu	01	01	--	--	--	--

	s						
6	Photoelectric Colorimeter	01	01	--	--	--	--
7	Slides (Toxicology & Serology)	--	--	--	--	--	20
8	Ultraviolet Lamps (mounted)	--	--	--	--	--	01
	Ultraviolet Lamps (portable)	--	--	--	--	--	01
9	Post-mortem (Autopsy) Examination Set-complete	--	--	--	--	--	01
10	Medicolegal X-Rays & Photographs	--	--	--	--	--	10

C
)

FURNITURE

1	Office Table	01	01	--	--	--	--
2	Side Table	01	01	--	--	--	01
3	Computer Table	01	01	--	--	--	--
4	Foam Chair	03	--	03	--	03	--
5	Executive chair	--	--		--	--	01
6	Cane Chair	02	01	01	--	01	--
7	Stools	21	21	--	--	--	--
8	Table Iron with Wood Piece (Museum)	01	01	--	--	--	--
9	Table With Marble Tops (Lab)	04	04	--	--	--	--
10	Marble Pieces	10	10	--	--	--	--
11	Glass door Locks	--	--	--	--	--	08

12	Wooden Almirah/Cupboard (for display of museum specimens/torsos)	--	--	--	--	--	04
----	------------------------------------------------------------------	----	----	----	----	----	----

D) **FIXTURES**

1	Cupboard	04	04	--	--	--	--
2	Book Shelf (Office)	01	01	--	--	--	--
3	Book Shelf (Lab)	05	05	--	--	--	--
4	Sink With Water Supply	04	04	--	--	--	--
5	Ceiling Fan	04	01	03	--	03	--
6	Gas Heater	03	03	--	--	--	--
7	White Board	01	01	--	--	--	--
8	Shelf With Glass	05	--	05	05	--	--
9	Shelf With Glass	01	--	01	01	--	--
10	Exhaust Fan	02	--	02	--	02	06
11	Block Frame (Museum)	19	--	19	19	--	--
12	Curtains(for doors)	--	--	--	--	--	08
13	Curtains (for windows)	--	--	--	--	--	08
14	Curtains (for wardrobes)	--	--	--	--	--	04

E) **ELECTRICAL**

1	Monitor	01	--	01 No	01	--	--
2	CPU	01	--	01	01	--	--
3	Mouse	01	01	--	--	--	--
4	Keyboard	01	01	--	--	--	--
5	Extension Board	03	03	--	--	--	02
6	Table lamps (for Laboratory)	--	--	--	--	--	04

F) **MUSEUM ITEMS (MODELS)**

1	Mummified Body (Adult)	01	--	01 Nos	--	01	--
2	Lacerated Wound On Left	01	--	01	--	01	--

	Forehead						
3	Deep Chop Cuts Over Head, Face & Neck	01	--	01	--	01	--
4	F.A. Entry Wound & Tattooing	01	--	01	--	01	--
5	Shotgun Entry Wound On Face	01	--	01	--	01	--
6	Contact F.A. Entry Wound On Left Temple	01	--	01	--	01	--
7	F.A.Exit Wound On Rt Temple	01	--	01	--	01	--
8	Distant F.A. Entry Wound On Forehead & Collar Of Abrasion	01	--	01	--	01	--
9	Vitriolage Showing & Burns On Face, Neck & Upper Chest	01	--	01	--	01	--
10	Homicidal Cut Throat Wounds	01	--	01	--	01	--
11	Washerman's Foot In Drowning	01	--	01	--	01	--
12	Défense Cut Wound On Palmer Surface- Rt Hand	01	--	01	--	01	--
13	Back Showing Post-mortem Staining & Contact	01	--	01	--	01	--

	Flattening						
14	Back Showing Rail-Track Bruises	01	--	01	--	01	--
15	Froth From Nose & Mouth in A Case Of Drowning	01	--	01	--	01	--
16	Ligature Mark in Hanging	01	--	01	--	01	--
17	Stab Wounds on Chest & Abdomen	01	--	01	--	01	--
18	Ligature In Strangulation	01	--	01	--	01	--
19	Suicidal Cut Throat & Tentative Cuts	01	--	01	--	01	--
20	Wrist Suicidal Cuts & Tentative Cuts	01	--	01	--	01	--
21	Rt Arm Showing Gaze Abrasions	01	--	01	--	01	--
22	Male Upper Torso Showing Putrefaction	01	--	01	--	01	--
23	Male Skeleton	01	01	--	--	--	--
24	Female Skeleton	01	01	--	--	--	--
25	Separate Bones	01 set	01 set	--	--	--	--
G) MUSEUM ITEMS (FIREARMS)							
1	Rifle 7mm	01 No	01 No	--	--	--	--
2	Single Barrel Shotgun	01	01	--	--	--	--

3	Pistol With 1 Magazine (32 Bore)	01	--	01	--	--	--
4	Pistol With 2 Magazine (30 Bore)	01	--	01	--	--	--
5	AK47 Cartridge	02	02	--	--	--	--
6	Pistol 32 Bore Cartridge	02	02	--	--	--	--
7	Pistol 30 Bore Cartridge	02	02	--	--	--	--
8	Revolver 32 Bore Cartridge	02	02	--	--	--	--
9	Shotgun (SG) 12 Bore Cartridge	02	02	--	--	--	--
10	Shotgun (04No) 12 Bore Cartridge	02	02	--	--	--	--
11	7mm Rifle Cartridge	02	02	--	--	--	--
12	8mm Rifle Cartridge	02	02	--	--	--	--
13	Air Gun Pellets	01 Pkt	01 Pkt	--	--	--	--
14	Double Barrel	01 No	01 No	--	--	--	--
15	Pistol	02	02	--	--	--	--
16	Revolver	02	02	--	--	--	--

MUSEUM ITEMS
H) **(SURGICAL ITEMS)**

1	Disposable Syringe	02	02	--	--	--	--
2	Stomach Tube	01	01	--	--	--	--
3	Foley's Catheter	01	01	--	--	--	--
4	Orthopaedic Hammer	01	01	--	--	--	--
5	Surgical Saw	01	01	--	--	--	--
6	Chisel	01	01	--	--	--	--
7	Chisel	01	01	--	--	--	--
8	BP Holder	02	02	--	--	--	--
9	Surgical Blade	05	05	--	--	--	--
10	Silk	01	01	--	--	--	--
11	Surgical Needle	01 Pkt	01 Pkt	--	--	--	--
12	Needle Holder	01 No	01 No	--	--	--	--
13	Scissor	01	01	--	--	--	--
14	Scissor	01	01	--	--	--	--

15	Scissor	02	02	--	--	--	--
16	Scissor	01	01	--	--	--	--
I) MUSEUM ITEMS (ASSAULT WEAPON)							
1	Baraf Sawa	01 No	01 No	--	--	--	--
2	Chain	03	03	--	--	--	--
3	Chopper	01	01	--	--	--	--
4	Knife	01	01	--	--	--	--
5	Knife	01	01	--	--	--	--
6	Knife	01	01	--	--	--	--
7	Dagger	01	01	--	--	--	--
8	Dagger	01	01	--	--	--	--
9	Cutter	01	01	--	--	--	--
10	Hammer	01	01	--	--	--	--
11	Skull	01	01	--	--	--	--
12	Axe	01	01	--	--	--	--
13	Screw Drivers	02	02	--	--	--	--
14	Rope	01	01	--	--	--	--
15	Wire	01	01	--	--	--	--
16	Iron Rod	01	01	--	--	--	--
17	Wheel Driver	01	01	--	--	--	--
18	Spade	01	01	--	--	--	--
19	Saw	01	01	--	--	--	--
20	Paper Weight	02	02	--	--	--	--
21	Shaving Blade	01 Pkt	01 Pkt	--	--	--	--
22	Showel	01 No	01 No	--	--	--	--
J) MUSEUM ITEMS (POISON)							
1	Surma	01 No	01 No	--	--	--	--
2	Neela Thotha	01	01	--	--	--	--
3	Chinese Refined Camphor	01	01	--	--	--	--
4	Coopex	01	01	--	--	--	--
5	Nux Vomica	01	01	--	--	--	--
6	Dhatura	01	01	--	--	--	--
7	Arsenic	01	01	--	--	--	--
8	Castor Oil (Pure)	01	01	--	--	--	--
9	Tannic Acid	01	01	--	--	--	--
10	Oxalic Acid	01	01	--	--	--	--
11	Act Charcoal	01	01	--	--	--	--
12	Ratti Seeds	01	01	--	--	--	--

13	Zinc Oxide	01	01	--	--	--	--
14	Mercury Nitrate	01	01	--	--	--	--
15	Pot Thiocyanate	01	01	--	--	--	--
16	Sandhoor	01	01	--	--	--	--
17	Poppy Seeds	01	01	--	--	--	--
18	Aspirin	01	01	--	--	--	--
19	Crayon (Chalk)	01	01	--	--	--	--
20	Marking Nut	01	01	--	--	--	--
21	Mercury	01	01	--	--	--	--
22	Opium Seeds	01	01	--	--	--	--
23	Croton Tiglium	01	01	--	--	--	--
24	Samad Bond	01	01	--	--	--	--
25	Snuff	01	01	--	--	--	--
26	Cigarette Packs	--	--	--	--	--	--
27	Shaving Cream	--	--	--	--	--	--
28	Tooth Paste	--	--	--	--	--	--
29	Detergent Powder	--	--	--	--	--	--
30	Tab Familla-28	01	01	--	--	--	--
31	Tab Ativan	01	01	--	--	--	--
32	Tab Ativan	01	01	--	--	--	--
33	Tab Disprol	01	01	--	--	--	--
34	Tab Tofranil	01	01	--	--	--	--
35	Tab Disprin	01	01	--	--	--	--
36	Syp Phenobarbitone	01	01	--	--	--	--
37	Inj Valium	01	01	--	--	--	--
38	Inj Nalbin	01	01	--	--	--	--
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Teaching Hospital(s) Equipment Requirements				
	General Medicine			
	at least one defibrillator available, functional and in use	Yes		
	at least two ECG machine (at least Triple Channel) available, functional and in use.	yes		
	at least one video endoscopic system with upper and lower sets available and in use	yes		
	at least one Trolley for endoscopes available, functional and in use.	yes		
	at least one echo cardiograph 2D with colour Doppler available, functional and in use	Yes		

	at least one ETT machine available, functional and in use.	Yes		
	at least four complete nebulizers available, functional and in use.	Yes		
	at least 10 BP apparatus available, functional and in use.	Yes		
	at least 10 stethoscopes available, functional and in use.	Yes		
	at least 4 pulse oximeters available, functional and in use.	Yes		
	at least 6 glucometers available, functional and in use.	yes		
	at least 2 cardiac monitors available, functional and in use.	Yes		
	at least 10 thermometers available, functional and in use.	Yes		
	at least 3 torches available, functional and in use.	Yes		
	at least 3 measuring tapes available, functional and in use.	Yes		
	at least 4 hammers available, functional and in use.	Yes		
	at least 2 tuning forks (128Hz) available, functional and in use.	Yes		
	at least 5 examination couches available, functional and in use.	05		
	Dermatology			
	at least 3 electrocautery machines available, functional and in use.	yes		
	at least 15 magnifying glasses with fluorescent lamps available, functional and in use	yes		
	at least 3 wood lamps available, functional and in use.	yes		
	at least 1 PUVA machine available, functional and in use.	yes		
	at least 1 UVB machine available, functional and in use.	yes		
	at least 3 liquid nitrogen cylinders for cryo available, functional and in use.	yes		
	at least 1 microscope with accessories available, functional and in use.	yes		
	at least 6 biopsy sets available, functional and in use.	yes		
	at least 6 BP apparatus available, functional and in use.	yes		
	Surgery			
	at least 8 basic standard surgical sets available, functional and in use.	Yes		

	at least 1 thoracic surgical set available, functional and in use.	yes		
	at least 1 vascular surgical set available, functional and in use.	yes		
	at least 1 paediatric surgical sets available, functional and in use.	yes		
	at least 1 plastic surgery set available, functional and in use			
	at least 2 surgical diathermies (Monopolar and Bipolar) machines available,	Yes		
	at least 1 harmonic/Ligature machine available, functional and in use.	-yes		
	at least 2 fibre optic colonoscope (Diagnostic and therapeutic) or flexible	yes		
	at least 2 rigid sigmoidoscope and proctoscope available, functional and in use.	Yes		proctoscope
	at least 2 complete laparoscopic surgical sets available, functional and in use.	01		
	at least 1 microsurgical instrument set available, functional and in use.	yes		
	at least 1 transurethral resection of prostate surgical set available, functional and in use.	yes		
	at least 2 cystoscopes (diagnostic and therapeutic) available, functional and in use.	01		
	at least one fibreoptic oesophagoscope/gastroscope available, functional and in	yes		
	at least 1 fibre optic bronchoscope available, functional and in use.	yes		
	at least 1 portable X-ray machine, operation table, and radiographic film cassette facilities e.g. for per operative cholangiogram. Image intensifier with C-arm and double monitors available, functional and in use.	yes		
	at least 3 suction machines available, functional and in use.	Yes		
	at least 1 defibrillator available, functional and in use.	Yes		
Obstetrics and Gynaecology				
	at least 4 ultrasounds with linear, vaginal, section probes and punctures available, functional and in use.	Yes		
	at least 1 hysteroscope available, functional and in use.	yes		
	at least 2 colposcope available, functional and in use.	yes		

	at least 1 laparoscopic surgical sets with camera and monitors available, functional and in use.	yes		
	at least 4 delivery table available, functional and in use.	Yes		
	at least 10 examination tables available, functional and in use.	Yes		
	at least 6 manual BP apparatus available, functional and in use. t all time?	Yes		
	at least 8 dyna-map available, functional and in use.	03		
	at least 6 pulse oximeters available, functional and in use.	02		
	at least 4 baby weighing scales hundred students available, functional and in use.	03		
	at least 10 pinnard stethoscopes/fetoscopes available, functional and in use.	Yes		
	at least 4 instrument sterilizers available, functional and in use.	02		
	at least 2 sonicaid available, functional and in use.	Yes		
	at least 4 CTG machines available, functional and in use.	02		
	at least 4 neonatal resuscitation trolley and heaters available, functional and in use.	01		
	at least 12 disposable delivery sets.	Yes		
	at least 20 Cusco's speculum available, functional and in use.	Yes		
	at least 3 adult ambo bags and masks available, functional and in use.	02		
	at least 20 Sims speculum available, functional and in use.	10		
	at least 20 perineal/vaginal/cervical repair sets available, functional and in use.	02		
	at least 8 Caesarean section sets available, functional and in use.	Yes		
	at least 5 dilatation and Evacuation sets (D&C) available, functional and in use.	Yes		
	at least 6 manual vacuum aspirators available, functional and in use.	yes		
	at least 6 vacuum ventuse cups available, functional and in use.	02		
	at least 6 outlet forceps available, functional and in use.	03		
	at least 6 infant laryngoscopes with spare bulbs available, functional and in use.	02		
	at least 6 suction machines available, functional and in use.	03		

	at least 4 teaching dummies and anatomical pelvis models available, functional and in use.	Yes		
	at least 2 dummies for pelvic examination available, functional and in use.	Yes		
	at least 1 adequate equipment for family planning available, functional and in use.	Yes		Family planning centre
Basic Surgery Sets in main Operating Theatre				
	at least 1 sterilizer (>300L capacity) available, functional and in use.	Yes		
	sufficient instrument boxes, scalpel handles of various sizes, May-Heggner Needle holders of various sizes, artery forceps, Halstead (non-serrated and curved) various sizes, surgical dissecting scissors, Metzenbaum (Curved) of various sizes, Kocher's forceps (toothed, straight, haemostatic) of various sizes, Probes of various sizes, Dissecting forceps with and without teeth of various sizes, Haemostatic forceps (Collin and Chaput) of various sizes, towel clips and galipots of various sizes for hundred students available, functional and in use.	Yes		
	Farabeuf retractors, short, self-retaining retractors for thoracic, abdominal and minor procedures etc. available, functional and in use.	Yes		
Out-Patient:				
	1 stethoscope per clinic available, functional and in use.	Yes		
	1 fetal/paediatric stethoscope per respective clinics available, functional and in	yes		
	BP apparatus per clinic available, functional and in use.	Yes		
	one thermometer (Oral/armpit) and sufficient rectal thermometers available, functional and in use.	Yes		
	light source (battery type), tongue depressors, tape measures (Flexible, soft), Snellen chart (including for uneducated patients), hammers, head mirrors/head lights, mirror laryngeal sets, otoscopes, and Collyer pelvimeters, examination tables, available, functional and in use.	Yes		
	laryngoscopes available, functional and in use.	02		
	stretchers (folding type) available, functional and in use.	yes		
	ambo bags for infants, paediatric patients and adult patients available, functional and in use.	01		

	suction machines available, functional and in use.	02		
	consumables like gloves, Endo tracheal tubes of various sizes, IV cannulas of various sizes, masks etc. available, functional and in use.	Yes		
Paediatrics Department				
	1 weighing scale available, functional and in use.	Yes		
	1 length/height measuring scale available, functional and in use.	Yes		
	2 ultrasonic nebulizers available, functional and in use.	Yes		
	1 paediatric ventilator available, functional and in use.	Yes		
	1 neonatal ventilator available, functional and in use.	yes		
	1 pulse oximeter available, functional and in use.	Yes		
	3 infusion pumps available, functional and in use.	yes		
	1 cardiac monitor available, functional and in use.	yes		
	1 transport incubator available, functional and in use.	yes		
	1 neonatal resuscitator available, functional and in use.	Yes		
	1 low grade suction apparatus available, functional and in use.	yes		
	1 resuscitator (infant/child), manual available, functional and in use.	Yes		
	1 suction machine (dual operation with tubes) available, functional and in use.	Yes		
	2 otoscopes with infant diagnostic heads available, functional and in use.	yes		
	2 forceps, splinter/repilation, and spring available, functional and in use.	Yes		
	2 paediatric nasal speculums available, functional and in use.	yes		
	1 scale for infants available, functional and in use.	Yes		
	1 height measuring scale for infants available, functional and in use.	Yes		
	6 oral/arm/pit thermometers available, functional and in use.	Yes		
	5 BP apparatus (new born, neonatal, paediatric, cuffs) available, functional and in	Yes		
	one paediatric BLS mannequin.			
Ophthalmology Department				
	1 Autorefractor/Keratometer available, functional and in use.	Yes		
	1 Ultrasound A-scan bio-meter available, functional and in use.	Yes		

	1 Ultrasound B-scan available, functional and in use.	Yes		
	1 Keratometer (Manual) available, functional and in use.	Yes		
	1 Application Tonometer (Hand held) available, functional and in use.	Yes		
	1 Phacoemulsification unit available, functional and in use.	Yes		
	1 Slit-lamp with applanation tonometer available, functional and in use.	Yes		
	1 Auto lensometer available, functional and in use.	Yes		
	1 Lensometer manual available, functional and in use.	Yes		
	1 Operating microscope available, functional and in use.	Yes		
	1 indirect ophthalmoscope available, functional and in use.	Yes		
	1 direct ophthalmoscope available, functional and in use.	Yes		
	1 Retinoscope available, functional and in use.	Yes		
	1 Trial lens set with trial frame available, functional and in use.	Yes		
	1 Prism bars (Horizontal & vertical) available, functional and in use.	Yes		
	1 Manual visual field analyser (Bjerrum screen) available, functional and in use.	Yes		
	1 Hess screen available, functional and in use.	Yes		
	1 electrosurgical diathermy unit (Mono/Bipolar) available, functional and in use.	Yes		
	1 Portable surgical light available, functional and in use.	Yes		
ENT Department				
	1 OPD instrument set available, functional and in use.	Yes		
	1 Auroscope available, functional and in use.	Yes		
	1 Ultrasound B-scan available, functional and in use.	Yes		
	1 microscope for O.T available, functional and in use.	Yes		
	1 rigid endoscopes with all accessories available, functional and in use.	Yes		
	1 Audiometer available, functional and in use.	Yes		
	1 Impedance Audiometer available, functional and in use.	Yes		
	1 BERA available, functional and in use.	Yes		
	1 Minor OT dressing/Examination set available, functional and in use.	Yes		
	1 General Set for OT available, functional and in use.	Yes		

	1 Microscope instrument set for mastoidectomy available, functional and in use.	Yes		
	1 Microscope instrument set for tympanoplasty available, functional and in use.	Yes		
	1 Microscope instrument set for Stapedectomy available, functional and in use.	Yes		
	1 Set for tonsillectomy available, functional and in use.	Yes		
	1 Set for Rhinoplasty available, functional and in use.	Yes		
	1 Set for FESS available, functional and in use.	Yes		
	1 Air Drill with all accessories available, functional and in use.	Yes		
Accident and Emergency Department				
	2 beds with monitoring facilities available, functional and in use.	Yes		
	1 minor operating theatre available, functional and in use.	Yes		
	1 pharmacy in emergency area available, functional and in use.	Yes		
	1 facility for resuscitation including crash cart (Defibrillator) and a cubicle for patient with central oxygen, suction and monitoring facilities stay available, functional and in use. (essential)	Yes		
Operating Rooms				
	five fully equipped operating rooms available, functional and in use.	Yes		
	appropriately furnished Pre-aesthesia area available, functional and in use.	Yes		
	recovery area with central oxygen and suction and monitoring facilities available,	Yes		
	monitoring facilities per OR available, functional and in use.	Yes		
	1 image intensifier available, functional and in use.	Yes		
	facilities for resuscitation available, functional and in use.	Yes		
	5 anaesthesia work stations available, functional and in use.	Yes		
	1 diathermy machine per theatre (Monopolar and bipolar) available, functional and	Yes		
	adequate OT Waste disposal method available, functional and in use.	Yes		
Critical care beds with isolation facilities as a part of intensive care, coronary care and neonatal care & HDU				
	ten medical ICU beds (Essential) available, functional and in use.	Yes		
	ten surgical ICU beds (Mandatory) available, functional and in use.	Yes		

	ten separate paediatric & neonatal intensive care beds available, functional and in use	Yes		
	implementation of sanitation & isolation protocols available, functional and in use.	Yes		
	Central Sterilization and Storage Department			
	Instrument washing area available, functional and in use.	yes		
	linen washing area available, functional and in use.	yes		
	1 washer and disinfectant available, functional and in use.	yes		
	2 steam autoclaves with 134 degrees' temperature (500L) available, functional and in use	yes		
	1 Ethylene oxide/ Formaldehyde gas / plasma sterilizer available, functional and in use	yes		
	1 sealant machine available, functional and in use.	yes		
	chemical based high level disinfection/sterilization facilities available, functional and in use	yes		
	storage and distribution counter available, functional and in use.	yes		
	separate path for collection of dirty linen and instruments available, functional and in use	yes		
	Radiology Services with all imaging modalities			
	X-Ray Machines:			
	3 Fluoroscopy/image intensifiers (500mA) available, functional and in use.	Yes		
	1 stationary Bucky table (300mA) available, functional and in use.	Yes		
	1 stationary Bucky Stand (300mA) available, functional and in use.	Yes		
	1 portable X-ray (100mA) available, functional and in use.	Yes		
	Ultrasound:			
	2 probe grey scale (3.5 MHz) available, functional and in use.	Yes		
	2 probe portable grey scale (3.5 MHz) available, functional and in use.	yes		
	1 colour Doppler (with multi frequency probes) available, functional and in use.	yes		1
	2 biopsy probes available, functional and in use.	yes		
	Other Equipment:			
	1 CT scan 16 slices or above available, functional and in use.	yes		
	or have access to 1 MRI (1.5Tesla or above) available, functional and in use or 0.4 tesla Open MRI.	yes		
	1 Mammography available, functional and in use.	yes		

	1 Orthopantomogram (OPG) available, functional and in use.	yes		
	Safety Equipment:			
	7 lead aprons available, functional and in use.	Yes		
	2 TLDs available, functional and in use.	Yes		
	4 lead shields/partitions available, functional and in use	Yes		
	one film badge/radiation detector per staff member and available, functional and in use.	yes		
	Hospital Laboratory Services			
	Haematology Instrument:			
	3/5-part automated differential counter available, functional and in use.	Yes		
	2 microscopes available, functional and in use.	Yes		
	one basic staining facilities including for reticulocytes available, functional and in use	Yes	Retic stain	
	1 fridge to keep samples available, functional and in use.	Yes		
	Blood Bank			
	1 serofuge available, functional and in use.	Yes		
	1 agglutination viewer available, functional and in use.	yes		
	1 blood bank fridge available, functional and in use.	Yes		
	1 microscope and 1 water bath/heat block available, functional and in use.	Yes		
	1 platelet rotator with incubator available, functional and in use.	Rotator available		
	1 minus thirty-degree refrigerator for storage available, functional and in use.	Yes		
	Chemical Pathology:			
	1 automated chemistry analyser available, functional and in use.	Yes		
	1 immuno-assay analyser available, functional and in use.	Yes	Kits unavailable	
	1 electrolyte analyser available, functional and in use.	Yes	Available in 344	
	1 blood gas analyser (either in department or in ICU) available, functional and in use	Yes		
	1 fridge and 1 minus-twenty-degree freezer for lab available, functional and in use.	Yes		
	Microbiology:			
	1 incubator (37 degrees) available, functional and in use	Yes	Patho dept	
	1 basic staining facilities available, functional and in use	Yes		
	1 refrigerator available, functional and in use.	yes		

	2 microscopes available, functional and in use.	yes	
	1 safety hood available, functional and in use.	yes	

Inventory list of IT department MMC 2022

S.No	ITEMS NAME	Quantity	REMARKS	LOCATION
1	Computers Core i3 (Dell)	23	Serviceable	Complete seat library =05(complete) Student Affairs=01(complete) Only CPU Conference room=01(CPU) Establishment Shabir=01(CPU) IT LABS=15 LCD/LED handover Community medicine Umar Hayat (LED)=01 Principle office =01 IT LAB LCD/LED=09
2	Computers Core 2duo(old computer) -One Lenovo core i3 computer -replaced with one old dell core 2duo	7+1+1	-Serviceable	Computer complete sets hand over Student Affairs (complete set) =01 Student Affairs =01(CPU)
	computer Anatomy section(Dr.Sahib Khan) -One Dell core i3-replacement with old CPU P4 Shabir Establishment			IT Labs=07 CPU set hand over BDS Lecture Hall =01 LCD/LED handover Pathology Haseeb (LCD)=01
3	Computer Corei3 Lenovo	10	Serviceable	Computer complete sets hand over Principal office=01 Biometric attendance =01 Pharmacology =01 Anatomy =01 Admin Office=01 KMU for data=01(CPU) IT LABS=04

04	Computer Corei3 Dell (NEW)	06	Serviceable	New Lecture Hall=01 Auditorium, Lecture hall1,2=03 Anatomy lecture halls=02
	Scanners	02	01=Serviceable 01=Unserviceable =	IT LAB
5	Server Computer	01	Serviceable	IT LAB
6	DVD Player	01	Serviceable	IT LAB
7	Sonny Cyber Shot Digital Camera	01	Serviceable	IT LAB
8	Handy came Camera	01	Serviceable	IT LAB
9	Hub/Switch 5 ports	02	Serviceable	IT LAB
10	Switch 16 port(2 old & 3 new)	05	Serviceable =03 Unserviceable=02	IT lab=02 IT store=03
11	PTCL DSL Connection	01	serviceable	IT LAB
12	RT V-Wireless Set	04	serviceable	IT Lab
13	WLAN Adapter	13	serviceable	IT LAB
14	Clipping tools	02	Serviceable=01 Unserviceable=01	IT LAB
15	Projector Screen	03+1 wall screen	Serviceable	Block 2=01 Community medicine=01 IT LAB=01
16	Projectors	09 old+ 6 Cannon	Serviceable = 11 Unserviceable =04	IT Lab=05 Lecture hall4(Can)=01 Auditorium, Lecture hall 1,2(can)=03 Anatomy(can) =01
				New lecture hall(benq) =01 Block 2(sonny) =01 Pharmacology(Acer) =01 Community Medicine benq= 01 Surgery Deptt.=01

17	Access Points	03 old + 4 LB Link	Serviceable=0 5 Unserviceable = 02	IT LAB=04 Principal office=01 IT Store=02
18	TV Cards	02	Serviceable	IT LAB
19	Overhead Projector	01	Serviceable	IT LAB
20	DVD Rams	01	Serviceable	IT LAB
21	Hub/Switch 8 ports	10	Serviceable=0 5 Unserviceable= 05	IT LAB& STORE=09 Physiology Deptt=01
22	Web Cam	01	Serviceable	IT LAB
23	Headphone	01	Serviceable	IT LAB
24	Name plate	01	Serviceable	IT LAB
25	Counter Table	01	Serviceable	IT LAB
26	Computer Carrel Tables	05	Serviceable	IT LAB
27	Office Table	01	Serviceable	IT LAB
28	Library Almari	01	Serviceable	IT LAB
29	Computer Table Large	01	Serviceable	IT LAB
30	Computer Tables Double	07	Serviceable	IT LAB
31	CDs Cupboards	02	Serviceable	IT LAB
32	Extension Boards	13	Serviceable=0 6 Unserviceable = 07	Library Deptt=02 Conference Room=01 IT LAB& STORE=10 Establishment shabir=01
33	Memory Card	01	Serviceable	IT LAB
34	HDMI Cable	06	Serviceable=0 5 Unserviceabl e =01	New Lecture Hall=01 IT LABs=02 Auditorium, lecture hall1,2=03
35	Stand Mice	01	Serviceable	IT LAB
36	Split & PEL AC	02	Serviceable	IT LABs
37	Computer Chairs	25	Serviceable	IT LABs
38	Speaker for lecture halls & Conference Room	03	Serviceable	BDS LECTURE HALLS=01 Lecture hall 1=01 Conference Room =01
39	Card Less	02	Serviceable	BDS LECTURE HALLS =01 Lecture hall1 yasir=01
40	Microphone	03	Serviceable	Conference room=02 IT lab=01
41	Amplifier	02	Serviceable	Conference Room=01 IT LAB =01
42	Mikes	08 old +5 new	13 Serviceable	IT Lab=03 Conference Room=10

43	Blower	01	Serviceable	IT LAB
44	Slide changer	01	Serviceable	IT LAB
45	Bluetooth mic	01	Serviceable	Lecture hall 2 janzaib
46	USB 16GB	01	unserviceable	IT LAB
47	CCTV Camera Dom 360	05	Serviceable	Auditorium Lecture halls

Laboratory manuals/documentation/instructions for experiments must be available and readily accessible to faculty and students.

- *Explain how students and faculty have adequate and timely access to the manuals/documentation and instructions.*

Based upon laboratory manuals/documentation/instructions provided by the manufacturer, IT personnel have modified these as per our condition. These modify manuals are readily available both to students and faculty.

- *Benchmark with similar departments in reputable institutions to identify short comings in laboratory.*

Pathology Department already divided into four fully equipped sections as Microbiology, Histopathology, Haematology and chemical Pathology along with demonstration rooms and copious space for students' practical performance.

Separate portions of diagnostic and reporting sections are available as part of services to community and material of samples for teaching. Reporting on clinical specimen not only important for teaching adds it also generates fund for section concerned.

There must be adequate support personnel for instruction and maintaining the laboratories.

- *Indicate for each laboratory, support personnel, level of support, nature and extent of instructional support.*

There are qualified technicians in the laboratories: 80% of the requirement available currently.

All laboratories are being looked after by Lab assistant as well as supported by class IV staff.

Supporting staff is available.

The University computing infrastructure and facilities must be adequate to support program's objectives.

- **Describe how the computing facilities support the computing component of your program.**

The computer lab is sufficient enough to accommodate all the students of Muhammad Medical College; tests are currently conducted by dividing girls and boys. Currently it has seating capacity with desktop for 100 students. Ibn-e-Sina University offer all its constituents institutes, access to reputable journals, HEC digital library with student's portal facility. Facility of Wi-Fi is also available throughout the campus.

Every institution has to meet the set standards i.e.

- Provision of Internet and e-mail facility for faculty, students & staff
- Development of MIS System: done
- A Digital Library: done.
- Human resource development through *extensive IT training programs for faculty, management, staff and students.*
- Should provide multiple operating systems (i.e. Linux, Unix, Windows 10) facilities to a user.
- The lab should provide facilities of scanners, HP laser jet printers, CD writer, Internet etc.
- The lab should have access to statistical software like SPSS free of cost.

STANDARD 4: STUDENT ADVISING AND COUNCELING

Student must have adequate support to complete the program in a timely manner and must have ample opportunity to interact with their instructors and receive in time advice about program requirements and career alternatives. To meet this criterion the following standards in this section must be satisfied.

Courses must be offered with sufficient frequency and number for students to complete the program in a timely manner.

MBBS program is offered to 100 students annually for 05 years medical training plus one year on job internship. The courses included in program are based on yearly basis professional examination and curriculum in form of predesigned structure by PMDC. Courses' contents are delivered in the form of lectures, practical & clinical sessions at Muhammad Medical College and wards of Muhammad Hospital.

Course is delivered according to the weekly time table decided at institution level by the faculty members to complete the course in specified time fixed by PMDC

We have started modular system for first year and second year MBBS graduates in 2021. For each module the total duration, timetable and related faculty is priorly shared with students when they are enrolled.

Students are provided with curriculum containing scheduled program requirement including Lectures, Large group discussion, small group discussion, Skill lad schedule and mandatory workshop based upon academic year.

- **Provide the department's strategy for course offerings.**

Major subjects taught in first two years through modular system are anatomy, physiology and biochemistry (Basic sciences).

Assessment of every module is done at end of each module and its weightage is included in final exam. Main chunk of the module is from basic sciences but some selected topics from other preclinical subjects like pathology, pharmacology and forensic medicine, behavioural science and some relevant clinical topics are also included in each module.

From third year onward we follow the annual professional examination system. During third year, the subjects of general pathology, forensic medicine and pharmacology are taught. During fourth year, special pathology, community medicine, eye and ENT are taught. Surgery, medicine, Gynae/Obs, paediatrics, orthopaedics, anaesthesia and radiology are partially taught in 3rd and fourth year but taught fully in fifth year as final course for annual examination. Hence these clinical departments jointly contribute to MBBS course.

Each department has faculty and teaching arrangements as per PMDC criteria.

- **Explain how often required courses are offered.**

Each year a new batch of 100 students is taken for MBBS program. At the end of each academic year, professional annual examination is conducted; those passed are promoted to next class.

- **Explain how often elective courses are offered.**

In addition to the courses of subjects mentioned above, Muhammad Medical College offers/accept electives for undergraduates' clinical students through Director students' affairs. Duration of elective is limited to a period of 4 weeks preferably during summer/winter vacation. These are useful for academic learning of the students.

- **Explain how required courses outside the department are managed to be offered in sufficient number and frequency.**

The courses offered are compulsory and taught by the core faculty. Promotion to next class is getting through all subjects separately for theoretical and practical parts for each academic year. During initial two professional exams, subjects taught by modular system approach is imparted through large group discussions (LGDs) and small group discussions (SGDs) for which sufficient faculty, plus rooms, multi medias, assistants and stationery are required.

In 3rd, 4th and final year there is an integrated system consisting of three terms followed by annual examination. Each term is followed by evaluation through MCQs, SEQs and OSPE/OSCE/CBA which require sufficient faculty, stationary and photocopying facility.

All mandatory workshop, skill lab and Laboratory work (clinical work) is offered in small groups preferably not more than 20 students.

Courses in the major area of study must be structured to ensure effective interaction between students, faculty and teaching assistants.

- **Describe how you achieve effective student / faculty interaction in courses taught by more than one person such as two faculty members, a faculty member and a teaching assistant or a lecturer.**

Any course, in which more than one faculty member is involved then the course instructors mutually coordinate and plan their contents distribution and schedules. In order to develop student teacher interaction tutorial are arranged in weekly time table. Annual planner consisting of time table and course content is priorly provided to the students and the faculty in the beginning of each academic year.

Guidance on how to complete the program must be available to all students and access to academic advising must be available to make course decisions and career choices.

- **Describe how students are informed about program requirements.**

MBBS program is a 05 years academic activity with compulsory subject's distribution framed by PMDC for each year. No optional decision on behalf of student is required. Students come to know the courses included in MBBS program through college prospectus.

- **Describe the advising system and indicate how its effectiveness is measured.**

Currently, Salim-ud-din Rashid serve as Presiden, proper advising committee *has* been constituted, with system to measure effectiveness of the advising committee.

- **Describe the student counselling system and how students get professional counselling when needed.**

There is a counselling cell run by Dr Saleem-ud-din Rashid. It is provided to the students on their need basis by the Head and his team members. However, frequently tutorial periods are also arranged at the institute for the same purpose.

- **Indicate if students have access to professional counselling; when necessary.**

The faculty members of MBBS program respond to student's queries regarding professional counselling through proper members as well as during teaching in wards, OT procedures and OPD.

- **Describe opportunities available for students to interact with practitioners, and to have membership in technical and professional societies.**

Clinical work is carried out in hospital vicinity on daily basis for 04 hours for final year students, 05 days a week for 4th year students and 04 days for 3rd year. Instructors (physicians, surgeons and other clinicians) usually provide opportunity to the students to interact with practitioners, patients and general community. Currently Muhammad Medical College has sufficient clinical faculty to properly fulfil the teacher student ratio as suggested by PMDC.

The benefits of different societies, during clinical posting is strongly emphasized to students and they are encouraged to be member of society of their interest and become active member.

Membership of all social societies of the institute is open to all students.

Standard 5: Teaching faculty/staff

Faculty members must be current and active in their discipline and have the necessary technical depth and breadth to support the program. There must be enough faculty members to provide continuity and stability, to cover the curriculum adequately and effectively, and to allow for scholarly activities.

- **Following table is indicating program areas and number of faculty in each area.**

Program area of specialization	Courses in the area and average number of sections per year	Number of faculty members in each area	Number of faculty with Ph.D. / FCPS
Anatomy Year1	250 Hrs.	16	16
Anatomy Year 2	250 Hrs.		
Physiology Year 1	250 Hrs.	13	13
Physiology year 2	250 Hrs.		
Biochemistry year 1	100 Hrs.		

Biochemistry year 2	100 Hrs.	11	11	
Forensic medicine	100 Hrs.	8	8	
Pharmacology	300 Hrs.	10	10	
Pathology Year1 General	280 Hrs.	23	23	
Pathology Year 2 Special	220 Hrs.			
Community Medicine	250 Hrs.	12	12	
Medicine & Allied	800 Hrs.	24	24	
Paediatric Medicine	300 Hrs.	10	10	
Psychiatry		4	4	
Surgery & Allied	800 Hrs.	15	15	
Radiology		2	2	
Obstetrics & Gynaecology	300 Hrs.	15	15	
Ophthalmology	100 Hrs.	6	6	
ENT	100 Hrs.	8	8	
Dermatology		3	3	
Cardiology		6	6	
Pulmonology		3	3	
Nephrology		3	3	
Gastroenterology		3	3	-
Medical Education		3	3	
Plastic Surgery		4	4	-
Neurosurgery		2	2	-
Urology		2	2	
Anaesthesiology		6	6	
Neurology		2	2	
Orthopaedics		4	8	+4
Total				

- **Each faculty member should complete a resume.**

Criteria for recruitment in the relevant discipline/department has been framed by PMDC and is available at their website. The same criteria are adopted by Muhammad Medical College while recruiting the new faculty for the relevant subjects

- **Describe existing faculty development programs at the departmental and university level.**

Different workshops on HRD have been arranged and conducted in the institution. Besides, faculty members are encouraged and facilitated to participate in relevant workshop from time to time inside and outside the institution. Both HR and medical education department does contribute in the process.

The workshops on health research and medical education has been conducted frequently to excel in the foresaid fields.

- **Demonstrate their effectiveness in achieving faculty development.**

The results of these workshops are reflected in professional examinations and results of the students. MCQs, SEQs and curriculum planning are key features of HRD. Faculty development is a constant evolutionary process and is reflected by the better achievements of the students in examination in each year.

- **Indicate how frequently faculty development programs are evaluated and if the evaluation results are used for improvement.**

At present the faculty development programs is going in terms of CHPE Course since 2021.

All faculty members should be motivated and have job satisfaction to excel in their profession.

- **Describe programs and processes in place for faculty motivation.**

1. Facilitation of postgraduate programs for the faculty, like M.Phil., PhD, MPH, MHPE, MHR and DMJ are providing along with the paid study leave.
2. Salary and incentive are at par with the other relevant institutions of the province.
3. Residential problems are sorted by making houses for the faculty, near the institute.
4. Rights of the faculty (to have leaves, deputation etc.) are as per institutional policy respected.
5. Accreditation with national and international universities as a part of quality enhancement of the faculty.

10	Salary and compensation package											
11	Job security and stability at the department											
12	Amount of time you have for yourself and family											
13	The overall climate at the department											
Averages												
Summation of Responses												
Marks Obtained (out of 65)		48										
Total Marks (out of 65)		48										
(Faculty Satisfaction): % Score Obtained =		73%										

- Indicate how effective these programs are.

Faculty survey report

S#	Questions	Very Satisfied	Satisfied	Uncertain	Dissatisfied	Strongly Dissatisfied	Total
1	Your Mix Or Research, Teaching And Community Service .	40 (66.7%)	20 (66.7%)	--	--	--	60 (100%)
2	The Intellectual Stimulation Of Your Work	40 (66.7%)	20 (66.7%)	--	--	--	60 (100%)
3	Type Of Teaching/ Research You Currently Do	10 (16.7%)	50 (83.3%)	--	--	--	60 (100%)
4	Your Interaction With Students	20 (33.3%)	30 (50.0%)	10 (16.7%)	--	--	60 (100%)
5	Cooperation You Receive From Colleagues	20 (33.3%)	40 (66.7%)	--	--	--	60 (100%)
6	The Mentoring Available To You	20 (33.3%)	40 (66.7%)	--	--	--	60 (100%)
7	Administrative Support From The Department	20 (33.3%)	40 (66.7%)	--	--	--	60 (100%)

8	Providing Clarity About Faculty Promotion Process	20 (33.3%)	30 (50.0%)	10 (16.7%)	--	--	60 (100%)
9	I See Your Prospects For Advancements And Progress Through Ranks	20 (33.3%)	30 (50.0%)	10 (16.7%)	--	--	60 (100%)
10	Salary And Compensation Package	10 (16.7%)	30 (50.0%)	10 (16.7%)	10 (16.7%)	--	60 (100%)
	Job Security And Stability Department	20 (33.3%)	40 (66.7%)	--	--	--	60 (100%)
	Amount Of Time You Gave For Yourself And Family	10 (16.7%)	40 (66.7%)	10 (16.7%)	--	--	60 (100%)
	The Overall Climate At The Department	10 (16.7%)	30 (50.0%)	10 (16.7%)	10 (16.7%)	--	60 (100%)
	Whether The Department Is Utilizing Your Experiences And Knowledge	10 (16.7%)	30 (50.0%)	10 (16.7%)	10 (16.7%)	--	60 (100%)

Academic Rank		
Designations	Frequency	Percentages
Professor	10	16.7%
Associate Prof	10	16.7%
Assistant Prof	20	33.4
Lecturer	15	24.75
Others	5	8.35
Total	60	100%

Years Of Service		
Ranges	Frequency	Percentages
11-15	40	66.7
16-20	10	16.7%
Less Than 20	10	16.7%
Total	60	24.75

Standard 6: Institutional policies and process control

The processes by which major functions are delivered must be in place, controlled, periodically reviewed, evaluated and continuously improved. To meet this criterion a set of standards must be satisfied.

The process by which students are admitted to the program must be based on quantitative and qualitative criteria and clearly documented. This process must be periodically evaluated to ensure that it is meeting its objectives.

- **Describe the program admission criteria at the institutional level, faculty or department if applicable.**

Program admission criteria is based upon PMDC and Govt instruction as released before admission each year. The system is transparent and merit is strictly followed, final list of admission is also submitted to PMDC at the end of admission process.

Director admission, each year soon publish prospectus, well before process of admission is started, highlighting detail of the admission process.

- **Describe policy regarding program/credit transfer.**

We have annual system of admission and examination. Migration of student is allowed only on mutual basis with any private medical college.

- **Indicate how frequently the admission criteria are evaluated and if the evaluation results are used to improve the process.**

Once admission process is completed, an evaluation committee is constituted by the order of vice chancellor. The committee evaluate entire process in term of strength and weaknesses, also evaluate grievances of those who did not get admission. Report is submitted to principal Muhammad Medical College.

From 2021, MMC is following E-system of admission. Candidates register his/herself before applying for admission for MBBS, this gives advantage of ease and transparency of the process.

The process by which students are registered in the program and monitoring of students' progress to ensure timely completion of the program must be documented this process must be periodically evaluated to ensure that it is meeting its objectives.

- **Describe how students are registered in the program.**

Each candidate applies online for admission to MBBS program in response to an advertisement, with scan copies of relevant documents.

Eligibility for admission in MBBS

To be eligible for admission in MBBS, a candidate should possess at least 60% marks in FSc and evidence of appearing in MDCAT test. Criteria laid down by PMDC and Ministry of Health Govt of Sindh is strictly followed.

- **Describe how students' academic progress is monitored and how their program of study is verified to adhere to the degree requirements.**

Modular system for 1st year and 2nd year MBBS, however for 3rd year, 4th year and final year annual examination system is still being followed. As per decision of vice chancellor departmental committees constituted by head of respective department are working to develop modular system for clinical subjects as well.

Term assessment is carried out routinely including Moodle assignment, MCQ test, OSCE examination. The weightage of this internal assessment is 10%, and end of the academic year assessment carries 90% marks.

The progress of each student in internal assessment is share with parent every 2 months.

- **Indicate how frequently the process of registration and monitoring are evaluated and if the evaluation results are used to improve the process.**

There is policy for the evaluation and monitoring.

The process of recruiting and retaining highly qualified faculty members must be in place and clearly documented. Also processes and procedures for faculty evaluation, promotion must be consistent with institution mission statement. These processes must be periodically evaluated to ensure that it is meeting with its objectives.

- Describe the process used to ensure that highly qualified faculty is recruited to the program.

The service statutes for Ibn-e-Sina University has been developed.

All the faculty members are appointed as per Higher Education commission/PMDC eligibility criteria through the university selection board. Wide publicity and broad-based selection criteria are employed to hire/recruit highly qualified faculty

- **Indicate methods used to retain excellent faculty members.**

There is proper system of incentives is available for faculty to retain excellent faculty members.

Following are suggestions to retain excellent faculty members:

1. Faculty members should be benefited with incentives like pension fund, endowment fund, house requisition, teaching allowance, other allowances allowed in other medical colleges and health professional allowance. However, faculty members are not informed about their pension contributions and its investment or as the case may be, about the gratuity and provident fund, Furthermore, provision of medical coverage facilities to the faculty and their near

relatives is permissible under the rules.

2. Endowment funds should be invested.
3. Healthy working environment is provided to the faculty with computer system, internet, telephone and Labs. Facilitation for establishment of well-equipped laboratories is there.
4. Monetary benefit to the faculty members should be provided upon publications of their work as it is in practice in other HEC chartered universities.
5. Clinical faculty gets extra incentives for hospital work.
6. Residential houses should be constructed for faculty members near to the University. This will improve faculty progress.
7. At least 03 Quota seats for MMC employee children for admission in medical college should be decided.
9. University should maintain and communicate the service record of each faculty/employee in transparent way.
10. Safe environment provided to the college and faculty.
11. Promotions of faculty structured and transparent.

- **Indicate how evaluation and promotion processes are in line with institution mission statement.**

It has been done after evaluation and reconsideration to give right and fair chance of professional growth and promotion to all eligible and qualified faculty members of Muhammad Medical College.

The process and procedures used to ensure that teaching and delivery of course material to the students emphasizes active learning and that course learning outcomes are met. The process must be periodically evaluated to ensure that it is meeting its objectives.

- **Describe the process and procedures used to ensure that teaching and delivery of course material is effective and focus on students learning.**

Teacher's evaluation survey is conducted by Quality Enhancement Cell and teachers get feedback about their performance and quality of delivery through students' feedback. However, the teacher's evaluation by the students sometimes leaves the impression of biasness, and should be made crystal clear.

- **Indicate how frequently this process is evaluated and if the evaluation results are used to improve the process.**

Teachers receive their teaching feedback yearly on their Email IDs with strengths and weakness (if any) with proper suggestions by QEC which help to improve the process.

The process that ensures that graduates have completed the requirements of the program must be based on standards, effective and clearly documented procedures. This process must be periodically evaluated to ensure that it is meeting its objectives.

- **Describe the procedures used to ensure that graduates meet the program requirements.**

The intake of students for the program is according to present criteria set by PMDC. For the certification of graduates, each professional examination is conducted by the university duly supervised by senior faculty and examiners (Internal and External) in a prescribed manner on annual basis. It includes theory and practical examination. The results of all professionals are combined together to award final degree.

- **Describe when this procedure is evaluated and whether the results of this evaluation are used to improve the process.**

The program and procedure both are evaluated by the University annually.

INSTITUTIONAL POLICIES

The meeting of academic council held on Tuesday 16th May 2024 in which following policies

Were approved.

1. Conflict of interest policy.
2. Plagiarism policy.
3. Undergraduate and postgraduate policy for ISU.
4. Human resource policy.
5. Recruitment Selection & Induction Policy
6. Code of Conduct
7. Leave Policy for Employees
8. Performance Appraisal Policy
9. Employee Retention Policy
10. Health (Policy for Faculty and Staff
11. Faculty Development Policy
12. Quality-Enhancement Policy-Quality Enhancement Cell (QEC)
13. Research and Development/ORIC Policy
14. Grievances Policy
15. Policy against Gender Harassment. Harassment Complain Form
16. Infection Control Policy for ISU
17. Waste management policy of ISU
18. Needle Stick Injury Policy
19. Hepatitis-B & C Vaccination Policy
20. Intellectual Property Rights Policy

On 17th December Functioning of various committees had been formed, the committee ensures that the policies are functioning effectively as per mandate.

Standard 7: Institutional support and facilities

Muhammad medical collage is working on the same mentioned standard, in phase wise manner which are implemented as per criteria.

Muhammad Medical College have its own financial support program provided by university in the form of petty cash etc. to meet the financial requirement of each department smoothly for routine office stationery.

At Muhammad Medical College, we have sufficient faculty members both in basic and clinical sciences, as suggested by PMDC/HEC.

We have facility of baby's day-care. Also training program/refresher courses for faculty are currently sponsored by the administration.

Muhammad Medical College has sufficient secretarial, technical and office facilities available to all faculty members.

- **The number of graduate students, research assistants and Ph. D students for the last three years.**

PASSED OUT STUDENTS STATUS 2017-2022

S. No	Year	Total Admissions	Total Passed out	Boys	Girls
	2017	100	98	50	48
	2018	100	98	58	40
	2019	100	88	46	42
	2020	100	100	52	48
	2021	100	97	51	46
	2022	100	102	60	42
	2023	100	102	31	71
	2024	100			

Provide the faculty: graduate student ratio for the last three years.

Years	No of faculty	Graduate	Faculty: graduate ratio
2020	65	511	1:8/1:19.6-1:24.5 Basic/Clinical
2021	58	498	1:94/1:19.6-1:24.5 Basic/Clinical
2022	62	499	1:8/1:20.6-1:25.75 Basic/Clinical

Financial resources provided to acquire and maintain Library holdings, laboratories and computing facilities.

- **Resources available for the library**

The central library has 187 seating capacity with adequate number of text and reference books. All are latest edition. E library has 20 seats for student, with excellent networking access.

- **Describe the resources available for laboratories.**

Presently, laboratories are adequate to handle 150 students.

- **Describe the resources available for computing facilities.**

Currently Muhammad Medical College has IT lab equipped with P4, and 50 students simultaneously may avail facility of networking.

Webuilt IT lab, with latest desktop, that can accommodate at least 100 students. At IT lab there is facility of ONLINE MEETS Ups. This facilitates Hand-on practice for the students as well.

The infrastructure to support new trends in learning such as e-learning.

- **Describe infrastructure and facilities that support new trends in learning.**

Muhammad Medical College established in a purpose-built building and therefore has spacious class rooms, faculty offices and advanced facilities.

Class rooms have adequate space, air-condition system, sound system; multimedia and electricity back up in case of power failure.

There is a library that can accommodate 187 students at a time. It has facility of 20 desktop (P4) with internet connection and printing facility to facilitate digital literature search. Faculty as well students have facility to access E-library with subject indexing.

- **Indicate how adequate the facilities are.**

Area	Available	Required
Classroom	10	nil

ANATOMY: Teaching Faculty & Technical Staff

Designation of teaching staff	Required	Available capacity	Deficiency
PROFESSOR		4	
ASSOCIATE PROFESSOR		1	
ASSISTANT PROFESSOR		4	
DEMONSTRATER		7	
DISSECTION HALL ATTENDENT		2	
CURATOR OF MUSEUM		2	
LAB TECHNICIANS/ASSISTANT		6	
STENOGRAPHER/ COMPUTER OPERATER		2	
Store Keeper		2	
Naib Qasid		4	

PHYSIOLOGY: Teaching Staff & Technical Staff

Designation	Required	Available Capacity	Deficiency
Professor		1	
Associate Professor		3	
Assistant Professor		2	
Demonstrator		7	

Demonstration Hall Attendant		4	
Curator Of Museum		2	
Lab Technicians/Assistant		6	
Stenographer/ Computer Operator		2	
Store Keeper		2	
Naib Qasid		4	

Biochemistry: Teaching Staff & Technical Staff

Faculty	PMDC Requirements	Available	Deficiency/ Additionally Required
Professor		3	
Associate Professor			
Assistant Professor		1	
Lecturer / Demonstrator		7	
Lab technician/ Assistant		4	
Stenographer/ computer operator		2	
Store Keeper		2	
Naib Qasid		4	

PHARMACOLOGY: Teaching Staff & Technical Staff

Designation of Teaching staff	Required	Available	Deficiency
Professor		3	
Associate Professor		1	
Assistant Professor		1	
Demonstrator		5	
Lab Technician/assistant		4	
Store Keeper		2	
Stenographer / Computer operator		2	
Naib Qasid		4	

PATHOLGY: Teaching Staff & Technical Staff.

Designation	Required	Available	Deficient
Professors		6	
Associate Professors		3	
Assistant Professor		4	
Lecturer / Demonstrator		11	
Laboratory Technician		4	
Computer operator		2	
Store keeper		2	
Lab Assistant/lecture attendant		4	
Naib Qasid		4	

FORENSIC MEDICINES: Teaching Staff & Technical Staff.

Designation	Required	Available	Deficient
Professors		3	
Associate Professors		1	
Assistant Professor			
Lecturer / Demonstrator		4	
Laboratory Technician		2	
Computer operator		3	
Store keeper		4	
Lab Assistant/lecture attendant		2	
Naib Qasid		8	

COMMUNITY MEDICINES: Teaching Staff & Technical Staff.

Designation	Required	Available	Deficient
Professors		2	
Associate Professors			
Assistant Professor		3	
Lecturer / Demonstrator		7	
Laboratory Technician		4	
Computer operator		2	
Store keeper		2	
Lab Assistant/lecture attendant		6	
Naib Qasid		4	

OPHTHALMOLOGY: Teaching Staff & Technical Staff.

Designation of Teaching staff	Required	Available	Deficiency
Professor		1	
Associate Professor			
Assistant Professor		1	
Senior Registrar		2	
Registrar		2	

OTOLARYNOLARYNGOLOGY: Teaching Staff & Technical Staff.

Designation of Teaching staff	Required	Available	Deficiency
Professor		1	
Associate Professor		1	
Assistant Professor		2	
Senior Registrar		2	
Registrar		2	

MEDICINES: Teaching Staff & Technical Staff.

Designation of Teaching staff	Required	Available	Deficiency
Professor		8	
Associate Professor		2	
Assistant Professor		4	
Senior Registrar		1	
Registrar		9	

SURGERY: Teaching Staff & Technical Staff.

Designation of Teaching staff	Required	Available	Deficiency
Professor		5	
Associate Professor		1	
Assistant Professor		3	
Senior Registrar		2	
Registrar		4	

Gynaecology & Obstetrics: Teaching Staff & Technical Staff.

Designation of Teaching staff	Required	Available	Deficiency
Professor		5	
Associate Professor			
Assistant Professor		3	
Senior Registrar		3	
Registrar		4	

PAEDIATRICS: Teaching Staff & Technical Staff.

Designation of Teaching staff	Required	Available	Deficiency
Professor		2	
Associate Professor		1	
Assistant Professor		2	
Senior Registrar		2	
Registrar		3	

The library must possess an up-to-date technical collection relevant to the program and must be adequately staffed with professional personnel.

College has established a central library having good collection of books with facility of lending. Well reputed National & international journals are subscribed and available as hard copy. IT facilities are sufficient with P4 desktop, printer and scanner.

Both faculty members and students have access to central library having dedicated areas.

Classrooms are sufficient in number can accommodate up to 150 students. All class rooms are equipped with, air-condition, multimedia facility, white board and excellent sound system.

- **Adequacy of faculty offices**

There are adequate faculty offices both for basic sciences and clinical departments.

Standard 8: Institutional general requirements

Muhammad Medical Collage has the five stars in which the research is one

of the pillar of five stars. Muhammad medical collage ensures that research activities within the MBBS program are embedded in a structured academic environment that upholds rigorous academic standards and aligns with international best practices. The college integrates research education early in the MBBS curriculum through dedicated research lectures for 1st and 2nd-year students, introducing them to research methodology, biostatistics, study design, and ethical protocols. Regular workshops are organized to offer practical exposure to research tools, literature review techniques, and scientific writing. The Annual Medical Symposium provides a prestigious platform for students to present their research work, engage with national and international experts, and remain informed about current trends and innovations in medical research. MMC arranges annual symposiums for research in which students of fourth year and final year are compulsory to participate and present oral and poster presentations and first year to third year students also take part in the annual symposium on their choice and every student who participates in annual medical symposium gets the chance to publish their paper in abstract book.

According to the vision and mission of Muhammad Medical collage there are arrangement of research classes in 1st year and second year classes. Total in year 2024 9 classes of research had been arranged and 12 classes for research in second year MBBS. There are total 8 members of research advisory team who takes classes. Workshops of research arranged annually for students.

MMC plans to further enrich the research environment by introducing structured mentorship programs, where faculty researchers will guide small student groups on real-time research projects aligned with community and clinical needs. Future enhancements include the development of a student research journal, integration of e-learning modules on research ethics and protocols, and collaborations with medical research organizations to expand opportunities for MBBS students to contribute to impactful, socially relevant research.

List of Publications: Participation of Ibn-e-Sina University in research published in National and International Journals from 2004 - 2024 on dated 7th July 2024
https://scholar.google.com/citations?hl=en&user=E1Y7PDMAAAAJ&view_op=list_works&sortby=pubdate

	Authors	Title	Publication
1	Mahezar, Rameez A; Khalil, Hadia; Shaikh, Sadia; Kalhoro, Aqsa; Rajar, Allah B; Memon, Momina A; Mamun, Mohammed A;	Exploring suicidality in the aftermath of the 2022 flood in Pakistan: insights from newspaper reports	CNS spectrums

2	Khalid, Asna; Khan, Muhammad Ahmed; Punjabi, Suneel Kumar; Manzoor, Usman; Aslam, Muhammad Aqeel; Shams, Salman;	Evaluation of anxiety and hemodynamic changes in surgical removal of lower third molar under local anesthesia.	The Professional Medical Journal		
3	Dherwani, Neeraj; Dherwani, Vishal; Khan, Talha Asad; Haroon, Kashif; Azam, Hafiz Mahmood; Aslam, Muhammad Aqeel;	Cephalometric evaluation of mandibular incisor inclination through incisor mandibular plane angle (IMPA): A cross- sectional study in Pakistan.	The Professional Medical Journal		
4	Puljak, Livia; Bala, Małgorzata M; Zając, Joanna; Meštrović, Tomislav; Buttigieg, Sandra; Yanakoulia, Mary; Briel, Matthias; Lunny, Carole; Lesniak, Wiktoria; Peričić, Tina Poklepović;	Methods proposed for monitoring the implementation of evidence-based research: a cross-sectional study	Journal of clinical epidemiology		
5	Kainat Haider1*, Dr Syeda Masooma2, Mariam Mehtab3, Dr	The role of the oral Microbiome in oral Cancer Pathogenesis	Journal of Population		
	Syed Muhammad Faran Ali4,Dr Madiha Umar5, Dr.Hafiz Mahmood azam6;		Therapeutics & Clinical Pharmacology	24	
6	Adnan, Kashif; Usman, Muhammad; Abbas, Syed Amjad; Azam, Hafiz Mahmood; Hameed, Anam; Majeed, Muhammad Usman; Afzal, Sibtain;	NOVEL IMAGINING TECHNIQUES FOR EARLY DETECTION OF DENTAL CARRIES	Journal of Population Therapeutics and Clinical Pharmacology	2024	
7	Langah, Allah Bachayo Rajar Imam Bakhsh Abdul Rehman Shah Nawaz Khatti Abdul Rahim Imtiaz Ali;	THE EFFICIENCY OF LAPAROSCOPIC SURGERY FOR WOMEN HOSPITALIZED WITH ACUTE CHOLECYSTITIS AT DIFFERENT STAGES OF PREGNANCY.	The Journal of Population Therapeutics and Clinical Pharmacology	2024	
8	Umar, Madiha; Bari, Tayyaba; Qasim, Rimsha; Khursheed, Hadia; Tasleem, Robina;	DEVELOPMENT OF NOVEL BIOCOMPATIBLE MATERIALS FOR DENTAL IMPLANTS	Journal of Population Therapeutics and Clinical Pharmacology	2024	

9	Kandhro, Rehmatullah; Unar, Javaid; Memon, Qamerunnisa; Iqbal, Zafar; Atif, Nourain; Daheri, Safiullah;	Evaluation of Antibiotic Prescription by Dentists for Oral Diseases	Journal of Health and Rehabilitation Research	2024
10	Baloch, Munwar; Khoso, Sana Javed; Saman, Saima; Majeedano, Sajid Ali; Aqeel, Muhammad; Khoso, Faiz Muhammad;	The Role of Salivary Micro RNAs as a Diagnostic Marker in Early Detection of Oral Squamous Cell Carcinoma	Annals of PIMS-Shaheed Zulfiqar Ali Bhutto Medical University	2024
11	Khan, Majid; Nizamani, Arsalan; Shah, Luqman; Ullah, Imran; Waqas, Muhammad; Halim, Sobia Ahsan; Ataya, Farid Shokry; Elgazzar, Ahmed M; Batiha, Gaber El-Saber; Khan, Ajmal;	Utilizing the drug repurposing strategy on current drugs: new leads for peptic ulcers via biochemical and biomolecular dynamics studies	Journal of Biomolecular Structure and Dynamics	2024
12	Ghaffar, Saima; Channa, Shahla; Dars, Saira; Khan, Shafia; Liaquat, Farah; Shah, Hanozia;	Perinatal Outcomes of High Risk Pregnancies: Experience of a Tertiary Care Hospital: Perinatal Outcomes in High Risk Pregnancies	Pakistan Journal of Health Sciences	2024
13	Naeem, Kashif; Farooqi, Muhammad Hamood; Zafar, Aimen; Haider, Shahzad Asfandiyar; Khan, Hira Saeed; Phull, Qamar Zaman;	Comparison of Hemodynamic Effect of Propofol and Ketofol during Induction of Anaesthesia in General Surgery Patients	Annals of PIMS-Shaheed Zulfiqar Ali Bhutto Medical University	2024
14	Romesa Khero ¹ , Shagufta Channna ² , Rimsha Lalain ³ , Jagdesh Kumar ⁴ , Hira ⁵ , Maham Shah ⁶ ;	Impact of oral health on quality of life and its potential long-term effects.	J Muhammad Med Coll	2024
15	Rajar, Allah Bachayo; Malik, Zainab; Ujan, Javed Ahmed; Rind, Khalid Hussian; Ullah, Raqeeb; Naz, Saira; Ullah, Mujeeb; Zahid, Muhammad; Khan, Khalid; Khayyam, Khayyam;	Implications of Heavy Metal Accumulation in Fish Feed, Water, Sediment, and Different Fish Species in a Polyculture System	Biological Trace Element Research	2024
16	Rao, Nirmala; Yang, Yi; Bala, Manya;	Early childhood care and education: landscape review 2010–2022		2024
17	Zia, Osama Bin; Bhayo, Azizullah; Amin, Asif Ahmed; Keerio, Niaz Hussain; Mahar, Sijad Ahmed; Shaikh, Mushtaque Ahmed;	Efficacy of Ponseti Casting in Syndromic Clubfoot Cases in Children: A Quasi- Experimental Study	HIV Nursing	2024

18	Channa, Shagufta; Shah, Maham; Lalain, Rimsha; Kumar, Deepak; Naseem, Aisha;	A Clinical Comparison of Dental impression accuracy between One-step and Two-step Dual phase impression technique by using Polyvinyl Siloxane Impression Material.	JMMC	2024
19	Saad un Nisa Mahesar, Mahvish jabeen Channa, Beenish Khanzada, Shagufta jabeen, Jennica Rose, Autif Hussain Mangi, Shah Muhammad Mahesar;	Variation Profile of Serum Calcium in Patients Suffering from Pulmonary Tuberculosis	Journal of Population Therapeutics and Clinical Pharmacology	2024
20	Dr. Zoheb Rafique Memon1*,Fatima Soomro2,Almas Ashraf3,Chhagan Lal4,Dr. Farah Deebea Shaikh5,Dr. Aqsa Fatima6, Prof. Dr. Khalida Naz Memon7;	COGNIZANCE REGARDING PATIENTS' RIGHTS TO HEALTH: PERSPECTIVES OF DOCTORS WORKING IN A PUBLIC SECTOR TERTIARY LEVEL HOSPITAL	Journal of Population Therapeutics & Clinical Pharmacology	2024
21	Javed, Talha; Arain, Bushra; Al Absi, Mowaffaq Abdullmomen; Memon, Zunair Akbar; Mahmood, Hafiz; Ahmed, Aswa; Iqbal, Waqas;	Comparison of Platelet-rich fibrin with Zinc oxide eugenol for the pain management of Alveolar Osteitis.	The Professional Medical Journal	2024
22	Rao, Nirmala; Cohrssen, Caroline; Bala, Many;	The Power of Research and Stakeholder Collaboration in Enhancing Early Childhood Care and Education in Low- and Middle-Income Countries	Children	2024
23	Memon, Jazib; Iqbal, Kanza; Mallick, Mariam Raza; Dehraj, Mohsin Ali; Ali, Ahsan; Kumar, Kelash;	Evaluation of Mean Apical Sealing Ability of Bio Ceramic and AH Plus (Dentsply Sirona) Sealer in Single Rooted Teeth: An In Vitro Study: Apical Sealing for Single Rooted Teeth	Pakistan Journal of Health Sciences	2024
24	Wadood, Maeesa; Kumari, Joshna; Das, Washin; Azeem, Syeda Arzoo; Zafar, Beenish; Iqbal, Shazia Sarwat;	A Comparative Evaluation: Metformin Vs. Metformin With Probiotics In Adolescents With PCOS: Impact On Testosterone Levels, Acne And Hirsutism	Kurdish Studies	2024
25	Ishaq, Bibi Hajira; Iqbal, Mohammad; Aziz, Sundal; Shah, Faridullah; Azam, Hafiz Mahmood; Rehman, Aziz U; Ahmed, Zahoor; Mushtaq, Alia; Noureen, Asia;	Evaluating Heme-Oxygenase-1 and Bilirubin Concentration from the Recovered and Glomerulonephritis Patients from Lady Reading Hospital (LRH) District Peshawar,	Pakistan Journal of Medical & Health Sciences	2023

		Pakistan		
26	Syed, Fareeha Naseer; Kashif, Nadia; Khan, Mubashir Razzaq; Memon, Fayaz Ahmed; Jabbar, Muhammad Zubair; Palleti, Sujith Kumar;	Hepatitis C Virus Infection in Patients with Beta Thalassemia after Multiple Transfusions at a Tertiary Care Hospital	Pakistan Journal of Medical & Health Sciences	2023
27	Keerio, Niaz Hussain; Chandio, Muhammad Shuaib; Bhatti, Sajjad Hussain; Jatoi, Zulfiqar Ali; Hussain, Farukh; Sohu, Dost Muhammad;	Functional Outcomes of Fixation of the Scaphoid Fracture with Herbert Screw: A Cross-Sectional Study	Pakistan Journal of Medical & Health Sciences	2023
28	Abbas, Syed Hamza; Abbas, Syed Qamar; Mubeen, Syed Muhammad; Mubashir, Syed Muhammad; Zaman, Aliya;	Breaking bad news: a descriptive study of physicians' perspective of Sindh, Pakistan	Age (in years)	2023
29	Iqbal, Waqas; Tariq, Uzma; Memon, Shahzaman; Lohana, Khushbu; Mahmood, Hafiz; Iqbal, Ayesha;	Association of P53 expression with clinicopathological gradings of oral squamous cell carcinoma patients in Hyderabad Sindh.	The Professional Medical Journal	2023
30	Arshad, Rabia; Khan, Aurangzeb; Bhatti, Shaheen Gul; Chandio, Muhammad Mubashir Ahmed; Nasir, Seema; Khatti, Shah Nawaz;	Prevalence of splenic injury in the blunt abdomen trauma: a cross-sectional study	Pakistan Journal of Medical & Health Sciences	2023
31	Hashmi, Fazila; Abbasi, Mushtaq Ahmed; Akbar, Muhammad; Chaudhry, Salman Majeed; Arain, Sohail Yousif; Ghufuran, Samar; Dhahri, Mehvish Adeel; Dhahri, Adeel Abbas;	Facial Nerve Morbidity after Superficial Parotidectomy in the Absence of Nerve Conductor: A Cross-Sectional Study from a Tertiary Centre in Pakistan	Pakistan Journal of Medical & Health Sciences	2023
32	Siddiqui, Tanveer Ahmed; Shujat, Aisha; Jagirani, Shabir Ahmed; Chachar, Zaheer Hussain; Rajput, Fozia; Memon, Madiha Khalid;	An Examination of the Impact of Blue Heat Treatment on the Forced Caused by the Vertical Motion of Endodontic Files	Pakistan Journal of Medical & Health Sciences	2023
33	Shaikh, Farhan Ahmed; Noureen, Aqsa; Shaikh, Abdul Rehman Khalil; Baloch, Sana Lund; Waqas, Aisha; Saboor, Rukhsana; Aamir, Kiran; Ramzan, Aamir;	Frequency of Transfusion Transmitted Infections in Healthy Blood Donors in a Tertiary Care Hospital	Pakistan Journal of Medical & Health Sciences	2023
34	Ahmed, Imtiaz; Aslam, Iqra; Khan, Ghashia; Akbar, Muhammad;	Role of Subcutaneous Negative Suction versus Simple Subcutaneous Drain	Pakistan Journal of Medical & Health Sciences	2022

	Hasham, Ali; Memon, Muhammad Anwar;	Closure in Contaminated Abdominal Surgeries in Pediatric Age Group		3
35	Qureshi, Huma; Begum, Naseem; Javed, Safiya; Kazi, Naheed Haroon; Memon, Amanullah;	Acute bronchiolitis management comparison between salbutamol with normal saline vs nebulized hypertonic saline	HIV Nursing	2023
36	Baladi, Zameer Hussain;	Make an institutional repository with zero budget and easy steps on Google Scholar: An innovative approach for library professionals.	Library Philosophy & Practice	2023
37	Shaikh, Farhan Ahmed; Noureen, Aqsa; Saboor, Rukhsana;	Impact of universal donor history questionnaire in pre-donation deferrals a tertiary care hospital experience	Pakistan Journal of Medical & Health Sciences	2023
38	Madhuri, Maya; Parkash, Oam; Malik, Samreen; Shabbir, Tahseen; Haque, Arifa; Ayub, Tahera; Shams, Salman;	Assessment of Tooth Extraction Anxiety and Depression in Older Adults	Pakistan Journal of Medical & Health Sciences	2023
39	Qadir, Abdul; Hanif, Muhammad; Ibrahim, Mahesh Kumar Luhano; Khan, Zarmast; Memon, Fayaz Ahmed;	Pediatric Fulminant Hepatic Failure: Insights from a Tertiary Care Hospital in Pakistan on Etiology, Clinical Presentation, and Prognosis	Pakistan Journal of Medical & Health Sciences	2023
40	Rajar, Allah Bachayo; Azam, Amjad; Das, Washin; Puri, Partab; Baladi, Zameer Hussain;	Collaborative Insight: Examining Ethical Dilemmas in Academic Integrity Among MBBS Students	Pakistan Journal of Medical & Health Sciences	2023
41	Memon, Shahnaz Bano; Almani, Sajjad Ali; Baloch, Saqib; Hanif, Shahab; Asad, Ayesha; Qureshi, Rida;	Histomorphometric effects of energy drink consumption on pancreatic tissue of albino wistar rats.	The Professional Medical Journal	2023
42	Hussain, Altaf; Abidi, Syed Abdur Rub; Saqlain, Hassan Amir Us; Lakhani, Sartaj; Majoka, Malik Wasim Ahmed; Keerio, Niaz Hussain;	Common Pathogen Frequency And Antimicrobial Sensitivity Pattern In Open Fractures Of The Extremities	Journal of Pharmaceutical Negative Results	2023
43	Rajar, Allah Bachayo; Soomro, Abdul Manan; Azam, Amjad; Das, Washin; Puri, Partab; Baladi, Zameer Hussain;	A Comprehensive Review of Professional Attitude: An Analysis of Scopus-Enrolled Journals from 2003 to 2022	Pakistan Journal of Medical & Health Sciences	2023
44	Keerio, Niaz Hussain; Majoka, Malik Wasim Ahmed; Lakhani,	Pattern and Presentation of Pediatric Spoke Wheel	Pakistan Journal of Medical &	20

	Sartaj;	Entrapment Injuries: Our Hospital Experience	Health Sciences	
	Saqlain, Hasan Amir Us; Abidi, Syed Abdur Rub; Hussain, Altaf;			23
45	Khan, Majid; Majoka, Malik Wasim Ahmed; Qureshi, Aurangzeb Husain; Abidi, Syed Abdur Rub;	Results of the Ponseti Technique of Manipulation Followed by Casting in Patients with Idiopathic Clubfoot	HIV Nursing	2023
46	Naqvi, Ali Muntazir; Rani, Shabnam; Hasan, Syed Muhammad; Soomro, Shahid Hussain; Abro, Abdul Sattar; Malik, Ehsanullah; Khan, Hina;	Prevalence of depression among the faculty of basic and clinical sciences in Medical Universities in Sindh, Pakistan.	The Professional Medical Journal	2023
47	Abbasi, M; Siddiqui, ES; Ghaffar, S; HEMLATA, DR; JABEEN, N; QARSHI, W;	COMPARATIVE STUDY FOR DIFFERENT PREVENTIVE METHODS FOR POSTPARTUM HEMORRHAGE (PPH)	Biological and Clinical Sciences Research Journal	2023
48	Shaikh, Nagina; Shaikh, Abu Bakar; Aghani, Suhail Ahmed; Majeed, Sameena; Abbasi, Irfana; Ali, Muhammad Munwar; Siddiqui, Alam Ibrahim;	Frequency and Clinical Characteristics of Young Onset Parkinson's Disease at Chandka Medical College Hospital Larkana	Pakistan Journal of Medical & Health Sciences	2023
49	Ulfat, Sana; Bashir Khan, Muhammad Khubaib; Saeed, Kausar; Shah, Faridullah; Azam, Hafiz Mahmood; Masud, Samrah; Bukhari, Syed Zain Zaffar; Ullah, Assad; Rehman, Hameed Ur;	Prevalence of Leprosy in District Buner, Khyber Pakhtunkhwa, Pakistan	Pakistan Journal of Medical & Health Sciences	2023
50	Urooj, Mehwish; Siddiqui, Asma; Akram, Sadia;	Advantages Of Flexible Denture Over Acrylic Denture	Journal of Pharmaceutical Negative Results	2023
51	Moosa, Yousuf; Bacha, Syed Haroon; Raza, Syed Ali; Zia, Muhammad Haris; Fatima, Aiman; Shaikh, Amir Akbar;	Role of Artificial Intelligence in Periodontology	Pakistan Journal of Medical & Health Sciences	2023
52	Srewal, Amjid Aazam; Soomro, Abdul Manan; Rajar, Allah Bachayo; Khowaja, Sadiq Ali; Qureshi, Masood Ali; Qureshi, Aneela;	The Relationship Between Self-Esteem and Students' Academic Achievement at Muhammad Medical and Dental College	Annals of Punjab Medical College (APMC)	2023

53	Elgohary, Ahmed Abdelaziz Abdelkader; Abdelbaky, Ahmed Gad Ragheb; Magadum, Mahantesh; Abdelfattah, Moataz Ibrahim Mohammed; Aamer, Nasrullah; Keerio, Niaz Hussain;	PREVALENCE OF OSTEOPOROSIS IN LOW ECONOMIC COUNTRIES: A SYSTEMATIC REVIEW AND META- ANALYSIS	Journal of Population Therapeutics and Clinical Pharmacology	2023
54	Dherwani, Vishal; Dherwani, Neeraj; Javed, Sana; Azam, Hafiz Mahmood; Khalid, Qasim; Aslam, Muhammad Aqeel;	The cephalometric evaluation of the position of maxillary 1st permanent molar in class II division I malocclusion.	The Professional Medical Journal	2023
55	Memon, Khalida N; Rajar, Allah Bachayo; Usman, Gulzar; Zaman, Nimra; Soomro, Fatima; Memon, Zoheb R;	Consanguinity as a predictor of premature births reported in maternity wards of teaching hospitals in Sindh Pakistan	African Journal of Reproductive Health	2023
56	Magadum, Mahantesh; Kerawala, Zulfiqar Haider; Peracha, Mohammed Asif; Elgohary, Ahmed Abdelaziz Abdelkader; Shalaby, Eslam Mohammed; Keerio, Niaz Hussain;	OPTIONS FOR TOTAL HIP ARTHROPLASTY SURGICAL APPROACHES	Journal of Population Therapeutics and Clinical Pharmacology	2023
57	Robina Tasleem, Sana Shakil Khan, Dr.MUNEER AHMAD KHAN,	Exploring the Role of AI in Dental Prosthodontics	NeuroQuantology	2023
	Fahimullah, Asim Elsir Elmahdi,,Yousuf Moosa., Assad Ullah;			2023
58	Petermann-Rocha, Fanny; Rao, Nirmala; Bala, Many; Parshad- Asnani, Monika; Sifuna, Anthony; Yousafzai, Aisha; Ho, Frederick K; Ip, Patrick;	Hygiene Practices and Early Childhood Development in the East Asia-Pacific Region: A Cross-Sectional Analysis	International Journal of Environmental Research and Public Health	2023
59	Bhayo, Azizullah; Peracha, Mohammed Asif; Kerawala, Zulfiqar Haider; Keerio, Niaz Hussain; Shalaby, Eslam Mohammed; Asad, Sundas;	Treatment of Delayed Supracondylar Humerus Fracture in Paediatric Patients with Closed Callostasis: Our Hospital Experience	HIV Nursing	2023
60	Moosa, Yousuf;	Effect of triamcinolone acetonide in trigeminal neuralgia (TN) pain	International Journal of Health Sciences	2023
61	Hameed, Rafey; Fozia, Syeda; Munawar, Laiba; Aziz, Wasio; Huda, Lailatul; Memon, Livaza;	Prevalence of Various Malocclusions Among Patients Presenting at Dental OPD of a	Annals of Punjab Medical College (APMC)	2023

		Tertiary Care Hospital		3
6 2	Raza, Amjid Azam Sirewal Muhammad Bilal Afzal Ummama Laghari Ghulam Murtaza Siyal S Ali Danish Kazmi Aliya;	FAMILY PLANNING METHODS UTILIZATION IN WOMEN OF REPRODUCTIVE AGE	HIV Nursing	2 0 2 3
6 3	Raza, Aliya; Kazmi, S Ali Danish; Siyal, Ghulam Murtaza; Laghari, Ummama; Afzal, Muhammad Bilal; Sirewal, Amjid Azam;	PREVENTING BREAST CANCER VIA HEALTH EDUCATION AMONG PAKISTANI RURAL WOMEN: A QUASI- EXPERIMENTAL STUDY	Journal of Population Therapeutics and Clinical Pharmacology	2 0 2 3
6 4	Sundas Asad1, Eslam Mohammed Shalaby2,Niaz Hussain Keerio3*,Zulfiqar Haider Kerawala4, Mohammed Asif Peracha5, Azizullah Bhayo6;	PLATELET-RICH PLASMA (PRP) AND ITS PLATELET CONCENTRATION HELP ALLEVIATE OSTEOARTHRITIS SYMPTOMS: OUR HOSPITAL EXPERIENCE	Journal of Population Therapeutics & Clinical Pharmacology	2 0 2 3
6 5	Afzal, Mamoona Tasleem; Aslam, Muhammad Aqeel; Wajid, Shanzay; Sairien, Sairish; Hasnat, Amina Mehak; Kashif, Muhammad; Ghaffar, Tamjeed;	Physical Therapist's Knowledge and Use of Medical Imaging in Clinical Practice: A Cross- Sectional Survey: Physical Therapist's Knowledge	Pakistan Journal of Health Sciences	2 0 2 3
6 6	Muneeb, Muhammad; Saleem, Sadaf; Hanif, Aatir; Saeed, Sumera; Hashmi, Muhammad Suleman Sadiq; Qureshi, Ayesha Aleem;	Challenges in academic governance: Insights from Pakistan's medical colleges	Pakistan Journal of Medical and Health Education	2 0 2 3
6 7	Muneeb, Muhammad;	Certificate in Health Professions Education	Pakistan Journal of Medical and Health Education	2 0 2 3
6 8	Rao, Nirmala; Bala, Manya; Ranganathan, Namita; Anand, Utkarsh; Dhingra, Sunaina; Costa, Janaina Calu; Weber, Ann M;	Trends in the prevalence and social determinants of stunting in India, 2005– 2021: findings from three rounds of the National Family Health Survey	BMJ Nutrition, Prevention & Health	2 0 2 3
6 9	Tasleem, Robina; Khan, Sana Shakil; KHAN, MUNEER AHMAD; Elmahdi, Asim Elsir; Moosa, Yousuf; Ullah, Assad;	Exploring the Role of AI in Dental Prosthodontics	NeuroQuantology	2 0 2 3

70	Hussain, J; Mushtaq, AB; Ashraf, S; Siddiqui, TZ; Afzal, M; Sheikh, AH;	Role of imaging modalities in accurate diagnosis of skull base ENT pathologies	J Ayub Med Coll Abbottabad	2023
71	Asif, Muhammad; Azam, Hafiz Mahmood; Achakzai, Wali Muhammad; Saddozai, Shagufta; Rahat, Amina; Aziz, Tariq; Azeem, Tahir; Rehman, Hameed Ur; Bibi, Ghazala; Saeed, Kausar;	Study of Prevalence of Oral Diseases in The Population of District Buner Khyber Pakhtunkhwa, Pakistan	Journal of Health and Rehabilitation Research	2023
72	SHAIKH, M; ZAMEER, S; DEVI, D; AHMED, Z; KHOSO, FM; SHAIKH, AP; AAMIR, K; RAMZAN, A;	A COMPREHENSIVE ANALYSIS OF MICROBIAL CONTAMINATION ON MEDICAL PROFESSIONALS ATTIRE AND DEVICES	Biological and Clinical Sciences Research Journal	2023
73	Suhail Wisal ¹ , Muhammad Shuaib Chandio, Fayaz Hussain, Waseem Ahmed, Mushtaque Ahmed Shaikh, Sajid Younus;	CONSEQUENCES OF RETROGRADE SUPRACONDYLAR NAILING AND LOCKING COMPRESSION PLATES FOR TREATMENT OF DISTAL FEMORAL FRACTURES: A RETROSPECTIVE STUDY	Journal of Population Therapeutics & Clinical Pharmacology	2023
74	Anjum, Misbah; Naeem, Bilquis; Hanif, Muhammad; Parkash, Oam; Kumar, Vijay;	Frequency of acute kidney injury in birth asphyxia at a Tertiary Care Hospital, Karachi.	The Professional Medical Journal	2023
75	Fatima, Urooba; Solangi, Suhail Ahmed; Nazir, Nudrat; Shakeel, Sundus;	Eco-Critical Harmony: Analyzing Human-Nature Dynamics in Khalil Gibran's 'Seven Reprimands'	INTERNATIONAL JOURNAL OF HUMAN AND SOCIETY	2023
76	Nazir, Nudrat; Solangi, Suhail Ahmed; Shakeel, Sundus; Fatima, Urooba;	AN INTERPRETATION OF JUNGIAN ARCHETYPES IN HEMINGWAY'S THE OLD MAN AND THE SEA	Jahan-e-Tahqeeq	2023
77	Shakeel, Sundus; Solangi, Suhail Ahmed; Fatima, Urooba; Nazir, Nudrat;	THE STUDY OF EXISTENTIALISM IN ELIF SHAFAK'S NOVEL '10 MINUTES 38 SECONDS IN THIS STRANGE WORLD' THROUGH THE CHARACTER OF LEILA	Harf-o-Sukhan	2023
78	Mustafa, Anum; Mustafa, Aiza; Rahman, Razi Ur; Iqbal, Rozina; Parkash, Oam; Siddiqui, Ariba;	Frequency of Meningitis in Children Aged 06 Months to 59 Months Presenting with First Episode of Fits with Fever in Pediatric Emergency Department	Pakistan Journal of Medical & Health Sciences	2023

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80	Mujtaba Shah ¹ , Nasrullah Aamer ² , Rajkumar ³ , Abdul Rabb ⁴ , Bhutto ⁴ , Ali Karim ⁵ , Nadeem Memon;	Factors for Erectile Dysfunction in Patients of Diabetes Mellitus Type II	Annals of Punjab Medical College	2023
81	Jamali, Anwar Ali; Memon, Nadeem Ahmed; Rabbani, Ubaid; Soomro, Abdul Karim; Jahanghir, Syed;	Vitamin D Deficiency in the Patients of Diabetes Mellitus and Its Correlation with HbA1c	Annals of Punjab Medical College	2023
82	Lohana, Khushbu; Memon, Shahzaman; Khuwaja, Shafqat Hussain; Iqbal, Waqas; Mahmood, Hafiz; Tasleem, Farha;	Association of E-Cadherin expression with different histopathological grading of Oral Squamous Cell Carcinoma (OSCC) in Hyderabad Sindh.	The Professional Medical Journal	2023
83	Bai, Anila; Shaikh, Farzana; Kumar, Suresh; Ahmed, Ayesha; Shaikh, Muhammad Akram;	Prevalence of Iron Deficiency Anemia among Infants Consuming Cow's Milk: Prevalence of Iron Deficiency Anemia	Pakistan Journal of Health Sciences	2023
84	Langah, Imtiaz Ali; Rahim, Abdul; Khatti, Shah Nawaz; Rehman, Abdul; Bakhsh, Imam; Rajar, Allah Bachayo;	The Effectiveness of The Bisap Score, a Quick and Easily accessible Test, in identifying Patients with Severe Acute Pancreatitis	History of Medicine	2023
85	un Nissa, Qamar; Ghaffar, Saima; Parveen, Fahmida; Rasul, Noreen; Soomro, Shoaibunisa;	Clinical Pattern and Awareness in Women Regarding Menopause and HRT	Journal of The Society of Obstetricians and Gynaecologists of Pakistan	2023
86	Bala, M; Rao, N;	Progress in Ameliorating Stunting in India: Trends in Prevalence and Social Determinants. Poster presented at the biennial meeting of the Society for Research in Child Development Conference, Salt Lake City, USA, March 23-25, 2023	Biennial meeting of the Society for Research in Child Development Conference (23/03/2023-25/03/2023, Salt Lake City)	2023
87	Baloch, Munwar; Khoso, Sana Javed; Khoso, Faiz Muhammad; Majeedano, Sajid Ali; Baloch, Fida;	The Physiological Role of Parathyroid Hormone and Serum Calcium in Odontogenesis Stunting Children; Cross-sectional Analysis of Children Attending Dental OPD and	Annals of PIMS-Shaheed Zulfiqar Ali Bhutto Medical University	2023

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88	Sirewal, Amjid Azam; Afzal, Muhammad Bilal; Laghari, Ummama; Siyal, Ghulam Murtaza; Kazmi, S Ali Danish; Raza, Aliya;	Family Planning Methods Utilization in Women of Reproductive Age	HIV Nursing	2023
89	Khan, Momna; Shaheen, Ghazala; Sirewal, Amjid Azam; Khoso, Sumaira; Naheed, Fahmida;	User Acceptance, Safety, and Effectiveness of The Postpartum Intrauterine Contraceptive Device	History of Medicine	2023
90	Muhammad, Syed; Siddiqui, Badar Naseem; Khan, Farhat Ullah; Adnan, Muhammad; Ullah, Sami; Khan, Nawab;	Exploring the technical competencies of extension field workers as perceived by farmers in selected areas of Khyber Pakhtunkhwa, Pakistan.		2023
91	Puri, Partab; Azam, Amjad; Memon, Abdul Rauf; Puri, Danish; Zakiuddin, Syed; Baladi, Zameer Hussain;	Exploring the Landscape of Type 2 Diabetes Mellitus Research: A Comprehensive Review of 670 Scopus-Enrolled Journal Articles (2003-2022) by Pakistani authors	Pakistan Journal of Medical & Health Sciences	2023
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93	Manan, Abdul; Ahmad, Zubair; Aijaz, Wasfa; Kamran, Muhammad; Memon, Fayaz Ahmed; Ahmed, Faizan;	Frequency of Restless Leg Syndrome in Diabetic Patients and it's Impact on Quality of Life	Pakistan Journal of Medical & Health Sciences	2023
94	MUHAMMAD ALI SOOMRO ¹ , SIDRAH ² , SURESH KUMAR ³ , ANEELA FAISAL MEMON ⁴ , AZHAR ALI ⁵ , KIRAN MEMON ⁶ , KIRAN ⁷ , AAMIR RAMZAN;	Analysis of E-Cadherin Expression in Patients with Esophageal Squamous Cell Carcinoma	Pakistan Journal of Medical & Health Sciences	2023
95	Khan, Javeria; Bhatti, Irtiza Ahmed; Jaffar, Nazish; Haider, Ghulam; Zaman, Aliya; Shabbir, Shamama Muhamad;	Histopathological Study and Clinical Correlation of Glial Tumors at a Tertiary Care Hospital of Karachi	Life and Science	2023
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97	Memon, Aqeela; Najeeb, Muhammad; Qazi, Afsheen; Memon, Anila Faisal; Usman, Gulzar; Memon, Majida;	Psychosocial Problems of Female Students Living in University Hostels	Annals of Punjab Medical College	2023
98	Memon, Anila Faisal; Zaman, Aliya; Qazi, Afsheen; Memon, Aqeela; Noureen, Aqsa; Rehmatullah, AlFarah;	Prevention and management of prostate cancer: A review.	JMMC	2022
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100	Ahmed, Imran; Kazi, Naheed Haroon; Bhand, Sikandar Ali; Memon, Yasirarfath;	Upper and Lower Respiratory Tract Infections: One Year Based Observational Study in Pediatric Population	Pakistan Journal of Medical & Health Sciences	2022
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105	KAZI, NAHEED HAROON; QURESHI, ROOMANA; KOUSAR, TASNEEM; SABA, AMEENA; MEMON, SHABAZ AHMED;	Factors Responsible for Iron Deficiency Anemia in Children Under Five Years	Pakistan Journal of Medical and Health Sciences	2022
106	Zaggut, Abdulhakim; Kalamchi, Sabah; Rahman, Muhammad M; Harris, Malcolm;	Craniofacial Injuries for Nonspecialists		2022

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108	BALA, MADHU; TAHIR, HUMAIRA; SOOMRO, PARAS; MAQSOOD, SAFIA; NAWAZ, NADIA; BALOCH, PARIGUL;	A Randomized Control Trial of Combined Surgical and Hormonal Therapy of Endometriosis	Pakistan Journal of Medical and Health Sciences	2022
109	Younus, Muhammad Zohaib; Shah, Syed Mahmood; Mushtaque, Ujala; Ali, Sadaf; Khasi, Anum Khan; Raza, Yasir;	Deficiency of Vitamin D and Anemia among Pakistani Children with Early Childhood Caries: A Case-Control Study	Pakistan Journal of Medical & Health Sciences	2022
110	Begum, Amina; Jabeen, Asma; Lakho, Rizwana; Zaheen, Zakia; Bala, Madhu; Bhutto, Arooba;	Prevalence of urinary tract infection during pregnancy at tertiary care hospital: a cross-sectional study	Pakistan Journal of Medical & Health Sciences	2022
111	Memon, Shahnaz; Almani, Sajjad Ali; Baloch, Muhammad Saqib; Ali, Samreen; Talpur, Tanveer Ahmed; Kumar, Harender;	Impact of resveratrol in attenuating cisplatin induced testicular toxicity in male adult rats	Journal of Islamabad Medical & Dental College	2022
112	BALA, MADHU; KUMAR, RAJNI RAJ; MAGSI, SHAGUFTA; FATIMA, SABAHAT; NAWAZ, NADIA; ASHOK, USHA;	Evaluation of Prevalence of Vaginal Candidiasis and Related Risk Factors: A Cross Sectional Study	Pakistan Journal of Medical and Health Sciences	2022
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115	Ahmed, Waseem; Khan, Sher Baz; Alqarni, Bader Mohammed H; Elkhatab, Ahmed; Keerio, Niaz Hussain; Fareed, Hamza;	Effectiveness of Vacuum-assisted Closure (VAC) Therapy for Open Musculoskeletal Injuries: A Cross-Sectional Study	Int J Cur Res Rev Vol	2022

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1 1 7	KHAN, ZAHIR; KHAN, ABDUS SAMAD; KHAN, HAZIQ DAD; AHMED, WASEEM; LAGHARI, AHMED RAZA; ASKARI, RAZA;	Compare the Results of Closed Interlocking Nail Shaft of Femur Versus open Interlocking Nail	Pakistan Journal of Medical and Health Sciences	2 0 2 2
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1 1 9	Fareed, Hamza; Keerio, Niaz Hussain; Elkhatab, Ahmed; Alqarni, Bader Mohammed H; Khan, Sher Baz; Ahmed, Waseem;	Efficacy of Conservative and Surgical Techniques in the Management of Scaphoid Fractures: A Longitudinal Study	Pakistan Journal of Medical & Health Sciences	2 0 2 2
1 2 0	Shaikh, Mamoon; Shaikh, Kausar; Memon, Fayaz Ahmed; Tahir, Muhammad; Khanzada, Jamil Ahmed; Farooq, Javeria;	Intraoperative Deliberate Hypotension: Comparison of Dexmedetomidine Infusion Alone and in Combination with Iignocaine	Pakistan Journal of Medical & Health Sciences	2 0 2 2
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1 2 4	Abbas, Jawad; Kumar, Arjan; Kumar, Narindar; Shah, Syed Dilbahar Ali; Shah, Arshad Ali; Shah, Iftikhar Ali;	Patterns of Cardiovascular Diseases in Covid-19 Patients Admitted to Tertiary Cardiac Care Centre	Pakistan Journal of Medical & Health Sciences	2 0 2 2

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1 3 2	Jahan, Erum; Balouch, Ifat; Memon, Shahneela Moosa; Naveel, Tania;	Frequency of maternal complications in obese and non obese pregnant patients	Pakistan Journal of Medical & Health Sciences	2 0 2 2
1 3 3	Syed, Muhammad Asif; Qazi, Nasreen; Jamali, Shah Nawaz; Arain, Ashique Ali; Memon, Sadat;	Antimicrobial Therapy: An Important Risk for Acquired Aplastic Anemia	Journal of Pharmaceutical Research International	2 0 2 2

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1 3 7	Kapoor, Aneel; Fatima, Fasiha; Ahsan, Naveed; Shaikh, Ghulam Serwar; Solangi, Dildar Ali; Shanker, Bhawni;	Vitamin D Deficiency among Well Nourished and Malnourished Children of School Going age at District Tharparkar	Pakistan Journal of Medical & Health Sciences	2 0 2 2
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1 4 0	Lal, Madan; Soomro, Zahoor Illahi; Soomro, Nisar Ahmed; Qureshi, Masood Ahmed; Khan, Abdul Rehman; Keerio, Niaz Hussain;	A Hospital-based Investigation of Patterns of Acetabular Fractures	Int J Cur Res Rev Vol	2 0 2 2
1 4 1	KHAN, ASFANDYAR; KARIM, SYED MUHAMMAD KHALID; KEERIO, NIAZ HUSSAIN; LAL, MADAN; REHMAN, ABDUL; KHAN, ZAHOOR ILLAHI SOOMRO; NOOR, SYED	Long-Term Outcome of Patients with Pelvic Fractures Managed by External Fixator: A Longitudinal Study	Pakistan Journal of Medical and Health Sciences	2 0 2 2

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1 4 2	Maheshwari, Lachman Das; Younis, Muhammad; Chandio, Muhammad Shuaib; Bhatti, Sajjad Hussain; Karim, Syed Muhammad Khalid; Palh, Hussain Bux; Keerio, Niaz Hussain;	Comparison of Corticosteroids Versus Platelet-Rich Plasma for the Treatment of Plantar Fasciitis: A longitudinal Study	Pakistan Journal of Medical & Health Sciences	2 0 2 2
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1 4 4	Memon, Aneela Faisal; Nisar, Zainab; Noureen, Aqsa; Hussain, Fida; Memon, Kiran; Aamir, Kiran;	Cross-Sectional Study of Benign and Malignant Soft Tissue: Role of Tissue Component Analysis in Pakistan	Annals of the Romanian Society for Cell Biology	2 0 2 2
1 4 5	Kumar, Rajesh; Kumar, Naresh; Qazi, Hareem; Harjani, Priya Rani; Hotchandani, Sarang Suresh; Alvi, Muhammad Muzamil;	Comparison the Clinical Effect of 2% Chlorhexidine and MTAD as Final Rinse in Controlling Post Operative Pain in Single Visit Root Canal Treatment	Annals of PIMS- Shaheed Zulfiqar Ali Bhutto Medical University	2 0 2 2
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1 4 8	Zaur, Zulfiqar Ali; Tago, Imtiaz Ahmed; Keerio, Niaz Hussain; Mehtabullah, Ghiasuddin Jan; Lakhani, Sartaj; Noor, Syed Shahid;	A Cross-Sectional Study for the Analysis of Commonly Attained Fractures in Patients Admitted Followed by a Motorcycle Accident	Int J Cur Res Rev Vol	2 0 2 2
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154	Memon, Nazia; Bala, Madhu; Bai, Meena; Naqvi, Nazish; Qazi, Sanobar; Memon, Wahida;	Incidence of Anemia in Pregnancy in Remote area of Hyderabad Pakistan	Journal of Research in Medical and Dental Science	2022
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1 6 1	RAZA, YASIR; ALI, SADAF; MUSHTAQUE, SAHER; MUSHTAQUE, UJALA; SURANI, HARIZA; NOMANI, SHAFaq;	The Oral Health of Autistic Children and its Impact on the Mental Health of Parents of Karachi, Pakistan	Pakistan Journal of Medical and Health Sciences	2 0 2 2
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255	ADEEL, MUHAMMAD; ASGHAR, KAMRAN; HASSAN, SAYED NAJMUL; AHMED, WASEEM; SHAH, SULTAN; MUNIR, SHAHID;	Outcome of Modified Stoppa Approach for Fixation of Acetabular Fractures	Pakistan Journal of Medical and Health Sciences	2021
256	Arain, Ashique Ali; Shaikh, Kashif Rasheed; Shaikh, Shumaila; Memon, Shagufta; SAEED, SHUMAIL; SIDDIQUI, SAIMA HINGORO;	Hyperuricemia: Gender and Religion Based Clinical Observations	Pakistan Journal of Medical and Health Sciences	2021
257	Soomro, Rukhsana; Brohi, Zahida Parveen; Jabeen, Asma; Rehman, Afra; Rana, Mehreen Yousaf;	Frequency of Overweight Women and Ovarian Enlargement among Females Presented with Pelvic Pain Complains	Journal of Pharmaceutical Research International	2021
258	Pandhiani, Bibi Sarah; Shah, Riaz Hussain; Sanghro, Khalil Ahmed; Siyal, Bakht Ali;	Levels of serum vitamin d among patients of chronic obstructive pulmonary disease and its association with severity: a case control study	Annals of the Romanian Society for Cell Biology	2021

259	Salman Adil, Syed; Khan, Imran; Das Maheshwari, Lachman; Lal, Madan; Hussain Keerio, Niaz; Shahid Noor, Syed;	Tertiary Care Orthopedic Hospital Experience to Find Effect of Dynamisation in Delayed Union Tibia Shaft Fracture		2021
260	Ahmed, Atif; Kalhoro, Muhammad Amjad; Aamer, Nasrullah; Kumar, Kuldeep; Das, Sant; Keerio, Niaz Hussain; Noor, Syed Shahid;	Correlation of Chronic Back Pain and Hyperuricemia, Our Hospital Experience	Journal of Pharmaceutical Research International	2021
261	Kakar, Abdul Hamid; Hameed, Muhammad Hamayun; Chaudhary, Sajjad Rasool; Omran, Fayez M Bin; Keerio, Niaz Hussain; Tago, Imtiaz Ahmed;	Evaluation of Common Complaints and Prescribed Drugs in the Orthopedic	Int J Cur Res Rev Vol	2021
262	Naqvi, SS; Phulpoto, Abdul Hayee; Memon, Abdul Qayoom; Channo, Munir Ahmad; Mangi, MUHAMMAD RAFIQUE; Maher, Asadullah;	Association of mortality and raised inflammatory markers such as serum LDH, serum ferritin and CRP in hospitalized patient with COVID-19 infection	Age (years)	2021
263	MAGSI, IRSHAD ALI; JAFFAR, NAZISH; NOUREEN, AQSA; ZAMAN, ALIYA; JAMALI, GHULAM MURTAZA; AHMED, HUMAIRA; ARSHAD, HAREEM; ABBAS, MUHAMMAD WASI; BUGHIO, SHAHWAR;	Evaluation of Chromosomal Abnormalities in Acute Myeloid Leukemia (AML) and Acute Lymphoid Leukemia (ALL)	Pakistan Journal of Medical and Health Sciences	2021
264	MUJTABA SHAH, HAFIZ WAJID ALI; AAMER, NASRULLAH; SHUJAULLAH, MUHAMMAD RAFIQUE HINGORO;	Association between the serum sodium level and Glasgow Coma Scale (GCS) level in patients of ischemic stroke	Pakistan Journal of Medical and Health Sciences	2021
265	Khanzada, Aftab Alam; Joyo, Muhammad Rafique; Javed, Muhammad Imran; Ahmed, Nizam; Keerio, Niaz Hussain; Shah, Ghazanfar Ali; Noor, Syed Shahid;	Result of Ring Fixator in High-energy Schatzker Type VI Fractures of Proximal Tibia	Journal of Pharmaceutical Research International	2021
266	Hussain, Sajid; Noor, Syed Shahid;	ORTHOPEDIC SERVICES IN COVID- 19, EXPERIENCE OF REMOTE	Journal of People University of	2021
		RURAL AREA HOSPITAL OF PAKISTAN	Medical and Health Sciences	2021

2 6 7	SHEEBA, ANEELA; SAHITO, ABID ALI; JATOI, ASMA; NAZ, FARAH; GUL, NARMEEN; YOUSIF, SOHAIL;	Diagnostic Accuracy of Ultrasound in the Detection of Acute Appendicitis by taking CT Abdomen as Gold Standard	Pakistan Journal of Medical and Health Sciences	2 0 2 1
2 6 8	JABEEN, HUMERA; ABBASI, MUSHTAQ AHMAD; BASHIR, JAMSHED; KHATTI, SHAH NAWAZ; MEMON, RIAZ AHMED;	Efficacy of 0.2% GTN in Reducing Duration of Wound Healing after Fistulectomy	Pakistan Journal of Medical and Health Sciences	2 0 2 1
2 6 9	HAIDER, GULFAREEN; KHAN, MOMNA; SHAIKH, FOZIA; JABEEN, ASMA;	Feto-Maternal Outcome in Patients with Jaundice During Pregnancy	Pakistan Journal of Medical and Health Sciences	2 0 2 1
2 7 0	us Saqlain, Hassan Amir; Hussain, Syed Sajid; Keerio, Niaz Hussain; Valecha, Nuresh Kumar; Qureshi, Masood Ahmed; Noor, Syed Shahid;	The Efficacy and Safety of Prakash Method of Closed Reduction of Anterior Shoulder Dislocation.	Journal of Pakistan Orthopaedic Association	2 0 2 1
2 7 1	MEMON, KHALIL AHMED; KHAN, MUHAMMAD; AZHAR, SARAH; KERSHAN, JAI; PURI, PARTAB; BHATTI, BENAZEER; ARAIN, MUDASSAR IQBAL; SHAHNAZ, SAIRA;	Prevalence of Hepatitis B and C among Tuberculosis Patients at Local Community of Sindh, Pakistan	Pakistan Journal of Medical and Health Sciences	2 0 2 1
2 7 2	Maheshwari, Lachman Das; Lal, Madan; Adil, Syed Salman; Kumar, Bheesham; Keerio, Niaz Hussain; Noor, Syed Shahid;	Union in Fracture Tibia Managed with Closed Intramedullary Interlocking Nail, Our Hospital Results	Journal of Pharmaceutical Research International	2 0 2 1
2 7 3	KHAN, MOMNA; JAVAID, SHUMAILA; KHALID, SARWAT; IMTIAZ, RAHILA; JABEEN, ASMA; JAHAN, ERUM;	Evaluation of Female Infertility Factors Through Diagnostic Laparoscopy: a Cross Sectional Study	Pakistan Journal of Medical and Health Sciences	2 0 2 1
2 7 4	QURESHI, SAJAD HUSSAIN; Abro, Shahnawz; Hameed, Faiza; Bashir, Jamshed; ASFANDYAR, SHAHZAD;	Malignancy in Females Presenting to A Surgical OPD with Breast Lumps in Our Population	Pakistan Journal of Medical and Health Sciences	2 0 2 1
2 7 5	Aamer, Nasrullah; Raja Memon, Waseem; Memon, Shahzad; Amjad Kalhoro, Muhammad; Muhammad Tunio, Yar; Das, Sant;	A Cross Sectional Study on Impact of Diabetes Mellitus on Lung function Parameters		2 0 2 1
2 7 6	Shah, Tazeen; Dars, Saira; Sheikh, Saima Ashfaque; Shaikh, Farheen;	Role of Green Tea on Obesity and Type- II Diabetes Mellitus Male Individuals	Journal of Pharmaceutical Research Inter	2 0 2

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2 7 7	Kumar, Darya Khan Laghari1Moin Ansari2 Eshur;	DIFFERENCE OF PRESENTATION GENERALIZED ANXIETY DISORDER BETWEEN RURAL AND URBAN POPULATION	Journal of Peoples University of Medical & Health Sciences Nawabshah.(JPU M HS)	2 0 2 1
2 7 8	Joyo, Muhammad Rafique; Ahmed, Nizam; Shah, Ghazanfar Ali; Khanzada, Aftab Alam; Afzal, Tanveer; Keerio, Niaz Hussain; Noor, Syed Shahid;	Outcome Analysis of Osteosynthesis Versus Hemiarthroplasty for the Treatment of Displaced Femoral Neck Fracture in Young Elderly Patient	JPRI [Internet]. 23Jun	2 0 2 1
2 7 9	Haider, Gulfareen; Sirichand, Pushpa; Sahito, Abid Ali; Memon, Sarwat; Jabeen, Asma;	Myometrial Resection versus Caesarean Section Hysterectomy in Patients with Morbidly Adherent Placenta	Journal of The Society of Obstetricians and Gynaecologists of Pakistan	2 0 1
2 8 0	YOUSFANI, ZUBAIR; ATTA, JABEEN; DAS, KHENPAL; BALA, MADHU; MAGSI, SHAGUFTA; RIND, GHULLAMULLAH;	Laparoscopic Surgical Management of Rectal Cancer at Tertiary Care Hospital	Pakistan Journal of Medical and Health Sciences	2 0 2 1
2 8 1	MUSHTAQUE, UJALA; YOUNUS, MUHAMMAD ZOHAIK; RAZA, YASIR; SURANI, HARIZA; FATEMAH, HIJAB; YOUSFANI, JAWERIA;	Association of Dietary Intake of Vitamin-C with Periodontitis among Elderly Population of Karachi, Pakistan	Pakistan Journal of Medical and Health Sciences	2 0 2 1
2 8 2	Ahmed, Bashir; Kumar, Manoj; Punjabi, Suneel Kumar; Kumar, Raj; Shams, Salman;	Determination of a Cone-Beam Computed Tomography based Assessment of Mental Foramen Position	Journal of Pharmaceutical Research International	2 0 2 1
2 8 3	ANWAR, NOREEN; NADEEM, AMER; NAHEED, KISHWAR; JARRAL, SHAIKTA ARSHAD; ABDULLAH, MUHAMMAD SAAD; ASAD, AYESHA; LAIQUE, TALHA;	Impact of Nigella Sativa on Body Weight, Volume and Weight of Ovary in Letrozole Induced Polycystic Ovarian Syndrome in Mice	Pakistan Journal of Medical and Health Sciences	2 0 2 1

284	UJJAN, SADAF; KHUWAJA, SHAFQUAT HUSSAIN; MANZOOR, FARYAL; KHAYYAM, UMER; MAQBOOL, ALI; KUMAR, MUKESH;	Assessment of the Post-Operative Pain by Using Zinc Oxide Eugenol Based Root Canal Sealer A Clinical Study	Pakistan Journal of Medical and Health Sciences	2021
285	Rubab, Pakeeza;	Awareness and Stress Response of the General Public towards the COVID-19 Pandemic: A Cross-Sectional Survey from Pakistan	Annals of the Romanian Society for Cell Biology	2021
286	Javed, Muhammad Imran; Khanzada, Aftab Alam; Shah, Ghazanfar Ali; Hussain, Niaz;	The Use of a Distal Tibial Locking Plate to Manage Distal Tibial Fractures: Our Experience	Journal of Research in Medical and Dental Science	2021
287	Azam, Hafiz Mahmood; Noureen, Asma; Ujjan, Javed Ahmad; Riasat, Madiha; Achakzai, Wali Muhammad; Saddozai, Shagufta;	Comparative study of Hydroxyapatite and fluoride containing tooth paste on inhibition of dental carries	Annals of the Romanian Society for Cell Biology	2021
288	ur Rehman, Najeeb; Baloch, Raheel Akbar; Jokhio, Muhammad Faraz; Khan, Ajmal; Silro, Niaz Hussain Keerio; Soomro, Mohsin Aijaz; Noor, Syed Shahid;	Osteomyelitis in Pediatric Patients, Isolation of Most Common Bacteria: Our Hospital Study	Journal of Research in Medical and Dental Science	2021
289	AAMER, NASRULLAH; RAJKUMAR, MUHAMMAD KHALID NIZAMANI; TUNIO, YAR MUHAMMAD; SHAHZAD MEMON, RUQAYYA FARHAD;	Frequency of Vitamin D Deficiency among Patients of Diabetes Mellitus Type II, Presented at Medicine OPD of a Tertiary Care Hospital	Pakistan Journal of Medical and Health Sciences	2021
290	Ullah, Sami; Muhammad, Syed Razi; Farooque, Rizwan; Farooque, Umar; Farukhuddin, FNU; Zafar, Muhammad Daim Bin; Khadke, Chinmay; Usman, Ahmad; Perez, Julio; Shehata, Mostafa A;	The outcomes of extracorporeal shock wave lithotripsy for high-density renal stone on non-contrast computed tomography	Cureus	2021
291	Saqlain, Hassan Amir Us; Keerio, Niaz Hussain; Shah, Ghazanfar Ali; Abidi, Syed Abdur Rub; Soomro, Zahoor Illahi; Tago, Imtiaz Ahmed;	A Comparative Study of Management of Femoral Shaft Fracture in Children	Annals of the Romanian Society for Cell Biology	2021

2 9 2	Soomro, Zahoor Illahi; Tago, Imtiaz Ahmed; Abidi, Syed Abdur Rub; Shah, Ghazanfar Ali; Keerio, Niaz Hussain; Saqlain, Hassan Amir Us;	Role Of Alendronate and Parathyroid Hormone in Postmenopausal Osteoporosis: A Randomized Clinical Trial	Annals of the Romanian Society for Cell Biology	2 0 2 1
2 9 3	Khan, Kiran; Qureshi, Shahzaib; Khan, Faheem; Hamza, Ameer; Rajar, Allah Bachayo; Khalil, Rehana;	NECK AND SHOULDER PAIN AMONG OFFICE WORKERS DUE TO ELECTRONIC DEVICE USAGE AT WORKPLACE	Journal of Peoples University of Medical & Health Sciences Nawabshah.(JPU M HS)	2 0 2 1
2 9 4	SHAH, MOHAMMAD UMAR; USMAN YOUSAF, MUHAMMAD ILYAS; AFZAL, MUHAMMAD; ABBAS, MUHAMMAD; FAHEEMUDDIN, MUHAMMAD; TARIQ, AMINA;	Prevalence and Severity of TMJDS among Undergraduates	Pakistan Journal of Medical and Health Sciences	2 0 2 1
2 9 5	Mallah, Fahmida Arab; Dilber, Muzamil; Shah, Syed Aamir; Shaikh, Muhammad Aslam; Keerio, Niaz Hussain; Mari, Abdul Razaque; Noor, Syed Shahid;	Ankylosing Spondylitis and Spinal Cord Injury: Origin, Incidence, Management and Avoidance	Drugs and Cell Therapies in Hematology	2 0 2 1
2 9 6	Silro, Ajmal Khan; Jokhio, Muhammad Faraz; Soomro, Mohsin Aijaz; Baloch, Raheel Akbar; Keerio, Niaz Hussain; Rehman, Najeeb Ur; Noor, Syed Shahid;	Result of high Fibular Osteotomy (HFO) in Osteoarthritis knee		2 0 2 1
2 9 7	Soomro, Mohsin Aijaz; Baloch, Raheel Akbar; ur Rehman, Najeeb; Keerio, Niaz Hussain; Jokhio, Muhammad Faraz; Silro, Ajmal Khan; Noor, Syed Shahid;	A Review on The Complications and Management of Osteoporosis		2 0 2 1
2 9 8	Silro, Ajmal Khan; Keerio, Niaz Hussain; Soomro, Mohsin Aijaz; Jokhio, Muhammad Faraz; Baloch, Raheel Akbar; Rehman, Najeeb Ur; Noor, Syed Shahid;	Outcome of Fracture Distal Femur Treated with Intramedullary Interlocking Nailing	Journal of Pharmaceutical Research International	2 0 2 1
2 9 9	Afzal, Tanveer; Keerio, Niaz Hussain; Joyo, Muhammad Rafique; Ahmed, Nizam; Shah, Ghazanfar Ali; Khanzada, Aftab Alam; Noor, Syed Shahid;	Study to determine the efficacy of illizarov fixator for the treatment of complex tibial plateau fractures	Journal of Pharmaceutical Research International	2 0 2 1

300	Jokhio, Muhammad Faraz; Shah, Ghazanfar Ali; Baloch, Raheel Akbar; Soomro, Mohsin Aijaz; Rehman, Najeeb Ur; Keerio, Niaz Hussain; Noor, Syed Shahid;	Antibiotic Cement Coated Nailing in Infected Nonunion of Tibia	Journal of Pharmaceutical Research International	2 0 2 1
301	Nizam Ahmed, Madan Lal; Keerio, Niaz Hussain; Shah, Ghazanfar Ali; Khanzada, Aftab Alam; Joyo, Muhammad Raßique; Noor, Syed Shahid;	Results of nonsurgical treatment of isolated closed tibial shaft fractures	IJRPS	2 0 2 1
302	Pahore, Muhammad Khan; Keerio, Niaz Hussain; Sharif, Muhammad Abdullah; Soomro, Zahoor Illahi; Shah, Syed Amir Ali; Adil, Salman;	Study to evaluate the treatment options and clinical outcomes of Nonunion of long bones.	Turkish Journal of Physiotherapy and Rehabilitation	2 0 2 1
303	Saqlain, Hassan Amir Us; Hussain, Syed Sajid; Keerio, Niaz Hussain;	Effect of platelet rich plasma injection effect on knee osteoarthritis in elderly:	Journal of Pharmaceutical	2 0
	Qureshi, Masood Ahmed; Valecha, Nuresh Kumar; Noor, Syed Shahid;	single dose versus double dose randomized clinical trial	Research International	2 1
304	Shah, Ghazanfar Ali; Ahmed, Nizam; Khanzada, Aftab Alam; Afzal, Tanveer; Rafique Joyo, Muhammad; Keerio, Niaz Hussain; Noor, Syed Shahid;	Result of ankle fracture fixation, our hospital experience	Journal of Pharmaceutical Research International	2 0 2 1
305	Soomro, Mohsin Aijaz; Silro, Ajmal Khan; Baloch, Raheel Akbar; Rehman, Najeeb Ur; Jokhio, Muhammad Faraz; Keerio, Niaz Hussain; Noor, Syed Shahid;	Study on Percutaneous Intramedullary Nailing In Adult Diaphyseal Humeral Fractures	Journal of Pharmaceutical Research International	2 0 2 1
306	Hameed, Muhammad Hamayun; Kakar, Abdul Hamid; Saqlain, Hassan Amir Us; Hussain, Syed Sajid; Qureshi, Masood Ahmed; Keerio, Niaz Hussain; Noor, Syed Shahid;	Outcomes of Ilizarov Ring Fixator in Infected Nonunion of Tibia	Journal of Pharmaceutical Research International	2 0 2 1

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308	Aamir, Kiran; Ujjan, Ikram Din; Khan, Muhammad Sarwar; Memon, Khalil Ahmed; Abbas, Syeda Hina;	Diagnostic Role of Bone Marrow Aspiration and Terphine Biopsy in Lymphoma Patients: A Case Study	Annals of the Romanian Society for Cell Biology	2021
309	PHULPOTO, ABDUL HAYEE; NAQVI, SYED SOHAIL ABBAS; CHANNO, MUNIR AHMAD; MEMON, ABDUL QAYOOM; MANGI, MUHAMMAD RAFIQUE; MAHER, S ASADULLAH;	Incidence and Distribution of Findings of Chest Radiographic in Patients Positive for Covid-19	Age (y)	2021
310	Khokhar, Nisar Ahmed; Nigar, Roohi; Phulpoto, Maryam; kumar Mewaram, Kuldeep;	Prevalence and Association of Hypertension with Body Weight: A Cross-Sectional Study	Prevalence	2021
311	Khokhar, Nisar Ahmed; Nigar, Roohi; Phulpoto, Maryam; kumar Mewaram, Kuldeep;	Predictors of Thyroid Dysfunction in Patients with Type 2 Diabetes Mellitus: A Case-Control Study	Drugs and Cell Therapies in Haematology	2021
312	AliKarim1, Shahida HassanMemon2, JamilAhmed3, Abdul KarimSoomro4, AbdulMananSoomro5;	PREVALENCE OF VITAMIN-D DEFICIENCY AMONG THE PATIENTS OF HBV AND HCV RELATED CHRONIC LIVER DISEASE	JOURNAL OF PEOPLES UNIVERSITY OF MEDICAL & HEALTH SCIENCES	2021
313	Bashir, Arfat; Naz, Samreen; Khalil, Marium; Aslam, Mehnil; Hussain, Fida; Abidi, Fizza;	Efficacy of Submucosal Dexamethasone Injection on Postoperative Adverse Outcomes Following Third Molar Surgery		2021
314	Laghari, Aijaz Ahmed; Gordhan, Bakht Ali Siyal; Sanghro, Khalil Ahmed; Shah, Riaz Hussain; Pandhiani, Bibi Sarah;	Level Of Erythropoietin in Elderly Patients Presenting with Anemia of Unknown Etiology: A Retrospective Cohort Study	Annals of the Romanian Society for Cell Biology	2021
315	Larik, Awais Bashir; Mughal, Shaheen Ahmed; Lakhiar, Muslim Ali;	The ability of postgraduate students to diagnose and treat migraine and tension- type headache: A hospital-based survey.	The Professional Medical Journal	2021

3 1 6	TASLEEM, FARAH; SALEEM, ANUM; TASLEEM, DOUA; AHMED, TALHA;	Accuracy of Paper Point Technique for Final Working Length Measurement after Canal Preparation		2 0 2 1
3 1 7	Mari, Abdul Razaque; Keerio, Niaz Hussain; Shaikh, Muhammad Aslam; Shah, Syed Aamir; Dilber, Muzamil; Mallah, Fahmida Arab; Noor, Syed Shahid;	Pitfalls and Complications in The Treatment of Cervical Spinal Fractures in Patients with Ankylosing Spondylitis: A Retrospective Study	Int J Cur Res Rev Vol	2 0 2 1
3 1 8	Al-Wutayd, Osama; Khalil, Rehana; Rajar, Allah Bachayo;	Sociodemographic and behavioral predictors of COVID-19 vaccine hesitancy in Pakistan	Journal of multidisciplinary healthcare	2 0 2 1
3 1 9	Qureshi, Masood Ahmed; Valecha, Nuresh Kumar; Keerio, Niaz Hussain; Hussain, Syed Sajid; Jokhio, Muhammad Faraz; Noor, Syed Shahid;	Management of Pediatric both-bone Forearm Fractures by Titanium Elastic Nailing System: A Prospective Study of 60 Cases	Journal of Pharmaceutical Research International	2 0 2 1
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3 2 1	Khan, Nawab; Ullah, Rahmat; Khan, Nanak; Naseem, Mohammad; Farhatullah, Mansoor Rasheed; Khan, Naqeeb Ullah; Muhammad, Syed; Khayyam, Muhammad; Ihtisham, M; Siddiqui, BN;	Agricultural extension worker role in the transfer of garlic production technology: a case study of Balochistan province, Pakistan	Int. J. Biosci.(IJB)	2 0 2 1
3 2 2	Muhammad, Syed; Siddiqui, Badar Naseem; Khan, Farhat Ullah; Khan, Nawab;	Self-perceived constraints of extension field staff affecting their working efficiency in Khyber Pakhtunkhwa, Pakistan.		2 0 2 1
3 2 3	Shaikh, Munazza; Khowaja, Sadiq Ali; Rajar, Allah Bachayo; Baloch, Ghulam Hussain; Puri, Partab; Memon, Tariq Feroz;	Macrovascular Complications and their risk factors in Type 2 Diabetic Patients in Hyderabad, Pakistan.	JMMC	2 0 2 0
3 2 4	Memon, Ghulam Rasool; Muhammad, Mairaj; Ali, Major Amir Iqbal;	Bilateral multiple giant juvenile fibroadenomas of breast.	JMMC	2 0 2 0

3 2 5	Parveen, Shazia; Almani, Sajjad Ali; Kashif, Sana; Hanif, Muhammad Shahab; Asad, Ayesha; Talpur, Mozna;	Histomorphometric effects of Raphanus Sativus leaf ex-tract on Carbon Tetrachloride induced hepatotoxicity.	JMMC	2 0 2 0
3 2 6	Rao, Abdul Mannan Khan; Muhammad, Mairaj;	Cold Abscess mimicking Goiter.	JMMC	2 0 2 0
3 2 7	Saleem, Huriza; Shakeel, Ayesha;	Students' perspective for online teaching program "Survive" during period of Covid-19.	JMMC	2 0 2 0
3 2 8	Shanker, Bhawani; Masood, Saleha; Rahat, Noshaba; Majid, Abdul; Siddiqui, Rafia;	Diagnostic yield of FNAC: Our Experience	JMMC	2 0 2 0
3 2 9	Hasaan, Arsalan; Shanker, Bhawani; Qazi, Afsheen; Zaman, Aliya; Kapoor, Aneel; Kumar, Narindar;	The frequency of vibrio cholera 01 EL TOR (Inaba And Ogawa) and its Resistance Pattern in Karachi.	JMMC	2 0 2 0
3 3 0	Hotchandani, Sarang Suresh; Harjani, Priya Rani; Memon, Mahwish; Kumar, Rajesh; Kumar, Naresh; Rind, Saeed Ahmed;	Comparative clinical assessment of working length endo-motor apex locator versus radiographic method in endo- dontic therapy.	JMMC	2 0 2 0
3 3 1	Khan, Mairaj Muhammad; Mohammed, Agha Taj; Behan, Rasool Bux; Yousif, Sohail;	Frequency of gall bladder carcinoma among patients of cholelithiasis at tertiary care hospital	Journal of Pharmaceutical Research International	2 0 2 0
3 3 2	Siddiqui, Erum Samreen;	Ruptured ectopic pregnancy in the rudimentary horn of a Unicornuate uterus. A case report.	JMMC	2 0 2 0
3 3 3	Tunio, Hanna Khair; Ahmed, Aftab; Memon, Faiqa; Maqsood, Syed Mohammad; Kamran, Shahid; Saqid, Muneer;	Trends of expenditure on Immunization in Pakistan since 2000.	JMMC	2 0 2 0
3 3 4	Keerio, Niaz Hussain; Valecha, Nuresh Kumar; Aamir, Nasrullah; Noor, Syed Shahid;	Knowledge and Awareness of Osteoporosis in Female Population of Hyderabad, Pakistan.	Journal of Pakistan Orthopaedic Association	2 0 2 0

3 3 5	Muhammad, Syed Razi;	Establishing the construct validity and Internal consistency for Urdu version of Jefferson Scale of Empathy-S (JSE-S)	medRxiv	2 0 2 0
3 3 6	Memon, Shahnaz Bano; Qamar, Nazia; Sundus, Sadia; Adil, Raheela; Arain, Ashique Ali; Shaikh, Abdul Malik;	Impact of Co-enzyme Q-10 on Liver Functions and Histology in INH Induced Rat Model	Journal of Sheikh Zayed Medical College (JSZMC)	2 0 2 0
3 3 7	QADEER, ABDUL SALEEM; QADEER, NAVEEN; FAROOQ, JAVERIA; HAZIM, FARRUKH ABU; FAROOQ, MUHAMMAD; BAIG, SAEEDA FOUZIA QASIM;	Diagnosis of Human Immunodeficiency Virus in Tuberculosis Patients	Pakistan Journal of Medical and Health Sciences	2 0 2 0
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3 3 9	Rajar, Allah Bachayo; Jameel, Nazia; Khalil, Rehana; Soomro, Abdul Manan; Soomro, Jamil Ahmed; Qureshi, Masood Ahmed;	DISTRIBUTION AND DETERMINANTS OF ACUTE HEPATITIS IN KARACHI, PAKISTAN: A CROSS-SECTIONAL STUDY.	Journal of Peoples University of Medical & Health Sciences Nawabshah.(JPU M HS)	2 0 2 0
3 4 0	Khalil, Rehana; Naeem, Zahid; Rajar, Allah Bachayo; Talib, Uroosa;	A pragmatic perspective on mental disorders by psychiatrists of Karachi, Pakistan: A qualitative study	Journal of Shifa Tameer-e-Millat University	2 0 2 0
3 4 1	Zehra, Fatima; Memon, Aqeela; Khowaja, Sadiq Ali; Sarah, Bibi; Memon, Tariq Feroz; Soomro, Abdul Manan;	MENTAL HEALTH STATUS OF HEALTH CARE PROVIDERS DURING COVID-19 PANDEMIC: A WEB-BASED CROSS-SECTIONAL SURVEY.	Journal of Peoples University of Medical & Health Sciences Nawabshah.(JPU M HS)	2 0 2 0
3 4 2	Khan, Raja Muhammad Adeel; Rind, Muhammad Aslam; Nazir, Maria; Azam, Amjid;	Diagnostic Precision Serum of Albumin Level and its Correlation with the Esophageal Varices Among Patients of Chronic Liver Disease	National Editorial Advisory Board	2 0 2 0
3 4 3	Aamir, Nasrullah;	DIABETIC FOOT ULCER, RISK FACTORS AND MANAGEMENT: A LITERATURE REVIEW.	Journal of Peoples University of Medical & Health Sciences Nawabshah.(JPU M HS)	2 0 2 0

3 4 4	Shaikh, Saima Naz; Shaikh, Khalida; Saeed, Hira; Aijaz, Roomi; Talib, Shujaullah; ul Haque, Zeeshan;	Is tobacco smoking correlated with Hearing loss? A Comparative Observational Study in healthy adult males	Isra Medical Journal	2 0 2 0
3 4 5	Shaikh, Salma; Chohan, Muhammad Nadeem; Ahmed, Imran; Memon, Hafeezullah; Shaikh, Saleem;	Assessment of the nutritional status by measuring body mass index and screening of school going children of Khairpur Mirus Sindh.	The Professional Medical Journal	2 0 2 0
3 4 6	Soomro, Zahoor Illahi; Taherani, Muhammad Asif Aziz; Adil, Salman; Haq, Anwar Ul; Shah, Syed Amir Ali; Keerio, Niaz Hussain;	The Effect of Tranexamic Acid on Blood Loss and Hospital-Stay after Knee Replacement Surgery	Annals of the Romanian Society for Cell Biology	2 0 2 0
3 4 7	Noor, Sayed Shahid; Keerio, Niaz Hussain; Valecha, Nuresh Kumar; Qureshi, Masood Ahmed;	Total Hip Arthroplasty Outcome (Hospital Results)	Journal of Biochemical Technology	2 0 2 0
3 4 8	Soomro, Abdul Ghani; Baloch, Tufail Ahmed; Muhammad, Mairaj;	SURGICAL AUDIT- LAPAROSCOPIC CHOLECYSTECTOMY IN A FREE CAMP AT PRIVATE SECTOR HOSPITAL	Journal of University Medical & Dental College	2 0 2 0
3 4 9	Hussain, Altaf; Amna, Ambreen; Brohi, Saifullah; Nadeem, Farkhunda; Fahim, Amin; Ahmed, Muhammad Imran;	Frequency of Post-Operative Wound Contamination in Bakhtawar General Hospital, Jamshoro	Journal of Islamabad Medical & Dental College	2 0 2 0
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