



# RESEARCH YEARBOOK

2022  
Vol. 1

HITEC INSTITUTE OF MEDICAL SCIENCES





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# EDITORIAL BOARD

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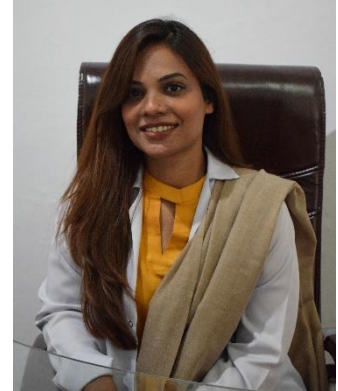
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Dr Maryam

Dr Rubace

Dr Fatima TU Zehra

M. Nouman Bashir



The purpose of this yearbook is to record, highlight and commemorate the research activities. This book is a directory of research carried out by faculty & students of both the Medical College and Dental College HITEC-IMS in the year 2022.

This initiative has been taken for the first time to document the research activities, conferences, and workshops. We hope to continue this practice in the years to come, this will not only acknowledge the research activities but also persuade the interest of faculty.



IT Specialist: Zohaib Alam

Bio- Statistician: Miss Kainat Fatima



Jo Alam-e-Ijad Mein Hai Sahib-e-Ijad  
Har Dour Mein Karta Hai Tawaaf Iss Ka Zamana

جو عالم ایجاد میں ہے صاحب ایجاد  
ہر دور میں کرتا ہے طواف اسکا زمانہ

He who creates in this world of Becoming  
Time revolves around him in all ages

علامہ اقبال

ALLAMA IQBAL is acknowledged as a great poet, philosopher and political visionary. He is one of those great scholars who have left a legacy behind to be followed by others. Several academic and research centers have been established in his name. His work is still considered to be motivational and inspirational for generations to come.

# MESSAGE FROM PRINCIPAL MEDICAL COLLEGE HITEC-IMS



Welcome to the first research yearly booklet; a combined effort from medical and dental college of HITEC  
INSTITUTE OF MEDICAL SCIENCES TAXILA.

What is research?

It is a sort of dedication to find new knowledge and ideas making the world a better place. It is required for all kinds of professions and is in vogue since Ancient Roman times.

I am delighted to say that our researchers are dedicated, hardworking and more than a little inspired.

We established our research institute about 2 years ago and worked hard to develop the research culture in our institute. Our paper published In Sep 2022 " MODEL FOR DEVELOPING RESEARCH CULTURE EXPERIENCE AT HITEC INSTITUTE OF MEDICAL SCIENCES" (1 ) speaks volumes of it

I hope after going through this booklet you will also feel inspired and motivated. You will hopefully develop formalized curiosity to poke and pry with purpose. Research can be done by everyone and every one of our institute ought to do it. Remember not to theorize before collecting data. Once done, then simply think systematically.

I would conclude by saying,

**IF YOU KNOW WHAT YOU ARE DOING BEFORE HAND, IT IS NOT RESEARCH**

1. Pakistan Journal of Public Health , Volume 12, pp 106-111; <https://doi.org/10.32413/pjph.v12i2.1036>



# MESSAGE FROM PRINCIPAL DENTAL COLLEGE HITEC-IMS



The research activities define the intellectual climate of an institution. The research innovativeness creates the culture in which students are taught evidence-based and student-centered approach to improve human health and evolution of novel strategies to maintain wellness and treat sickness.

At Dental College HITEC-IMS, the research cell is dedicated to creating impactful publications with diverse scientific footprint that will be relevant, challenging, thought provoking and inclusive of diverse range of voices and perspectives. The faculty is provided multitude of opportunities to participate in the research activities and they are facilitated in every possible way.

This initiative of research year booklet will bring forward the research being carried out in the institution. This will also bring opportunities for ground-breaking collaborative and interdisciplinary research. I look forward enthusiastically to continuing to grow and diversify our programs of scientific discovery towards better serving our community in future.

I hope that reading this research year booklet will be a delight for everyone and it will inspire the faculty members to engage in innovative research projects.



# RESEARCH AT HITEC-IMS

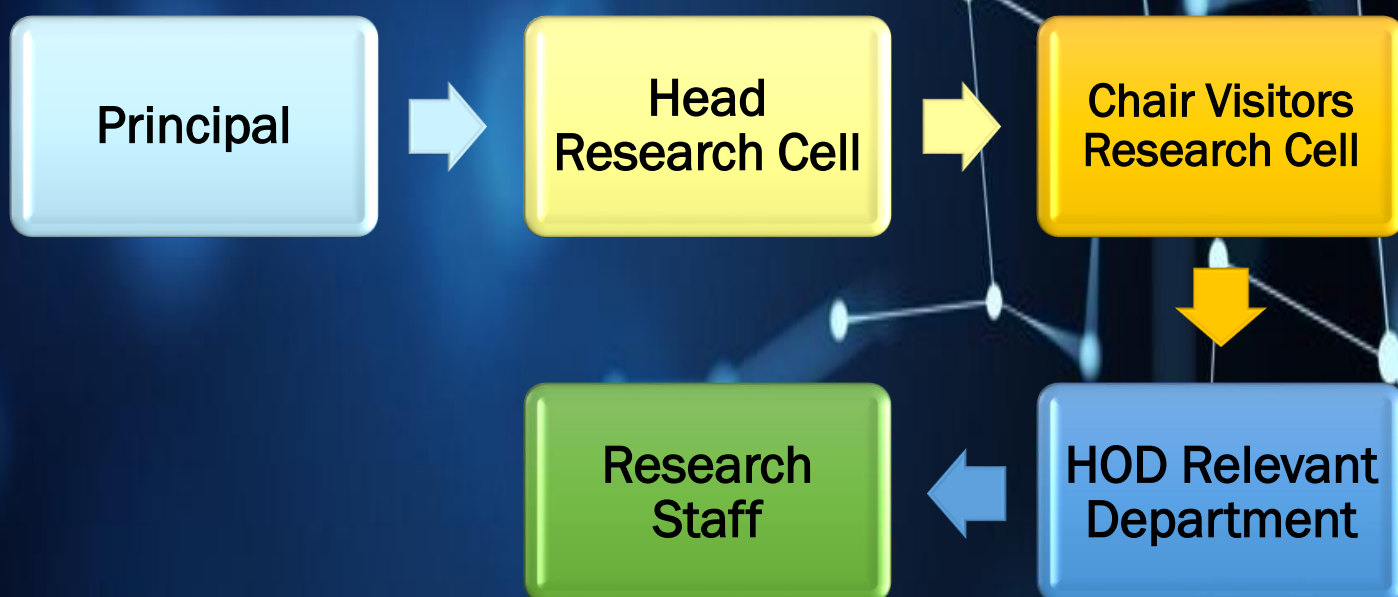
HITEC Institute of Medical sciences (Medical College and Dental College) is dedicated to good quality research. Both the colleges (Medical and Dental) aim at substantial enhancement of aptitude for high quality and relevant research in the field of medical and dental sciences. With the aspiration to be recognized as research-led institute with international credibility.

To facilitate researchers, research cells have been setup at HITEC-IMS (Medical and Dental College). The library is well-equipped with latest software for research including SPSS version 28, Smart PLS, NVivo, Endnote and Grammarly. The college also has access to TURITIN to check for plagiarism. Access to HEC Digital library and subscription to international journals is also offered.

The Hitec-ims Medical College and the Dental college have multidisciplinary research teams. This plays a role in reducing gap between research cell and departments to encourage interdisciplinary research. Research groups like faculty and student interest groups are functional to assist the students and faculty in their research projects. The institute also has an established visitor's research centre to do collaborative research projects.

Both the colleges have independent IRB with representation of a lawyer, socio-political activist, and external collaborators from CPSP and Fauji Foundation University, providing ethical and unbiased approval to research projects.

Faculty and students are encouraged to use these facilities and carry out high quality research to benefit community and bring institution to top ranking health and dental care facility of the country through research activities.



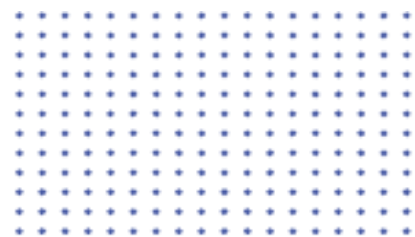
# RESEARCH CELL

## VISION

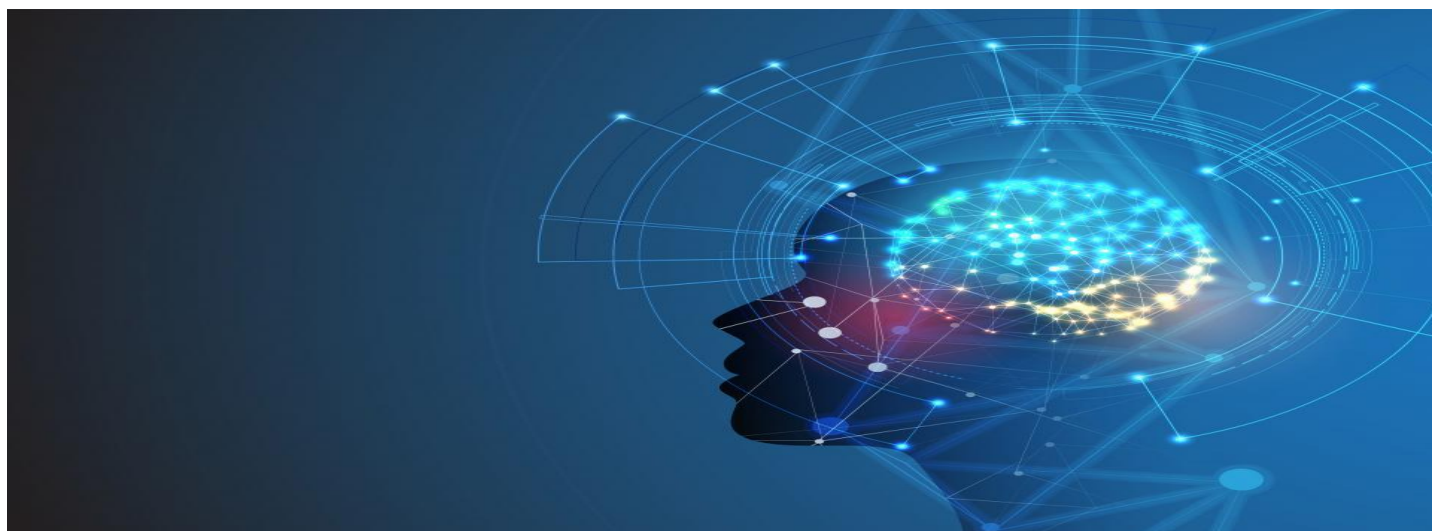


We are dedicated to creating a research environment in Taxila that spans academic and healthcare institutions in order to address important opportunities and challenges. HITEC-IMS is particularly well-positioned to develop a renowned research capability on a national and international scale.

## MISSION



To generate, integrate, interpret, communicate, and apply medical information with honesty, efficiency, the highest standards of ethics, zeal and purpose. It is important to foster a sustainable and lively culture of creativity, innovation, and a high level of research.





# MESSAGE FROM RESEARCH CELL MEDICAL COLLEGE HITEC-IMS



Research plays a vital role in the advancement of knowledge. It is a tool for facilitating learning. It helps us understand the world around us and find solutions to problems. In a globalized world, the role of research in an academic institution is significant for its sustainability and development. It is essential to have knowledge-driven growth based on innovation. Research promotes confidence in reading, writing, analyzing, and sharing valuable information. It can help the nation evolve as a knowledge reservoir in the international arena. Our educational system faces a number of challenges, quality research is one of them. At this juncture, it is pertinent to develop an inbuilt research mechanism in our educational system. The need of the hour is to create an encouraging environment for academic research in all higher centres of learning. This research book is a step to compile information for research publications, conferences, workshops and all sorts of research activities in which HITE-IMS faculty and students are involved. This book will help the faculty and students to self-organize their research activities and pave the way to open institutional collaboration with the community.

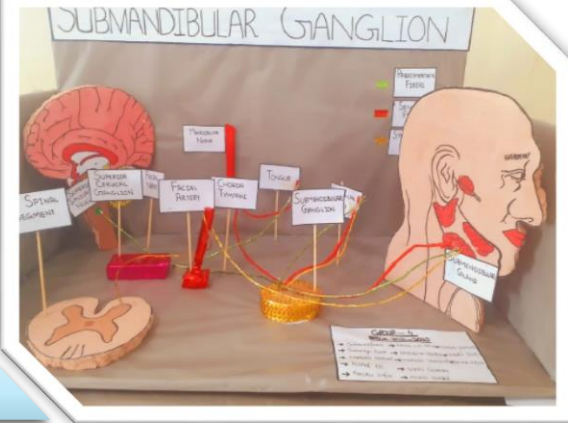
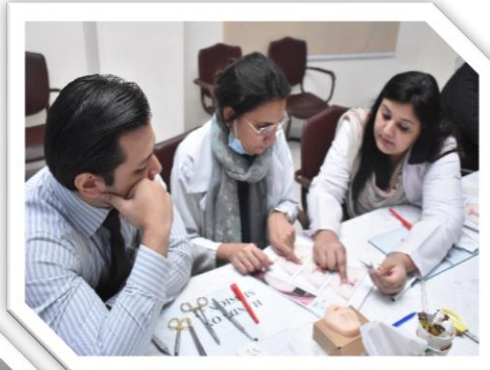
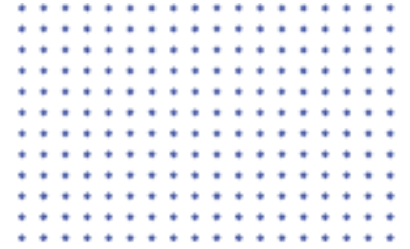
# MESSAGE FROM RESEARCH CELL DENTAL COLLEGE HITEC-IMS



Research has always been an essential part of medical sciences around the globe, and achieving excellence in research is a collaborative process facilitated by faculty, clinicians, and students. A thriving research culture at Dental College HITEC- Institute of Medical Sciences fosters innate creativity and resourcefulness of students and faculty. The college's wide range of research activities, which include ongoing research projects, research awards, journal clubs, student research groups, faculty research groups, workshops, and symposiums, are reflective of this practice.

In order to generate fresh ideas, build state-of-the-art facilities, create and promote scientific and biomedical publications, forge sustainable partnerships, and interact with the local community as well as with national and international partners, we view research as the foundation of scientific knowledge. Our research strategy establishes the vision, mission, and guiding principles needed to build a thriving and viable research environment for researchers, clinicians, and students to flourish in their field of study. This year's research booklet will act as an inspirational guide to inspire everyone at Dental College HITEC- Institute of Medical Sciences to explore, promote, and recognize research excellence in all its manifestations.

# YEAR AT A GLANCE

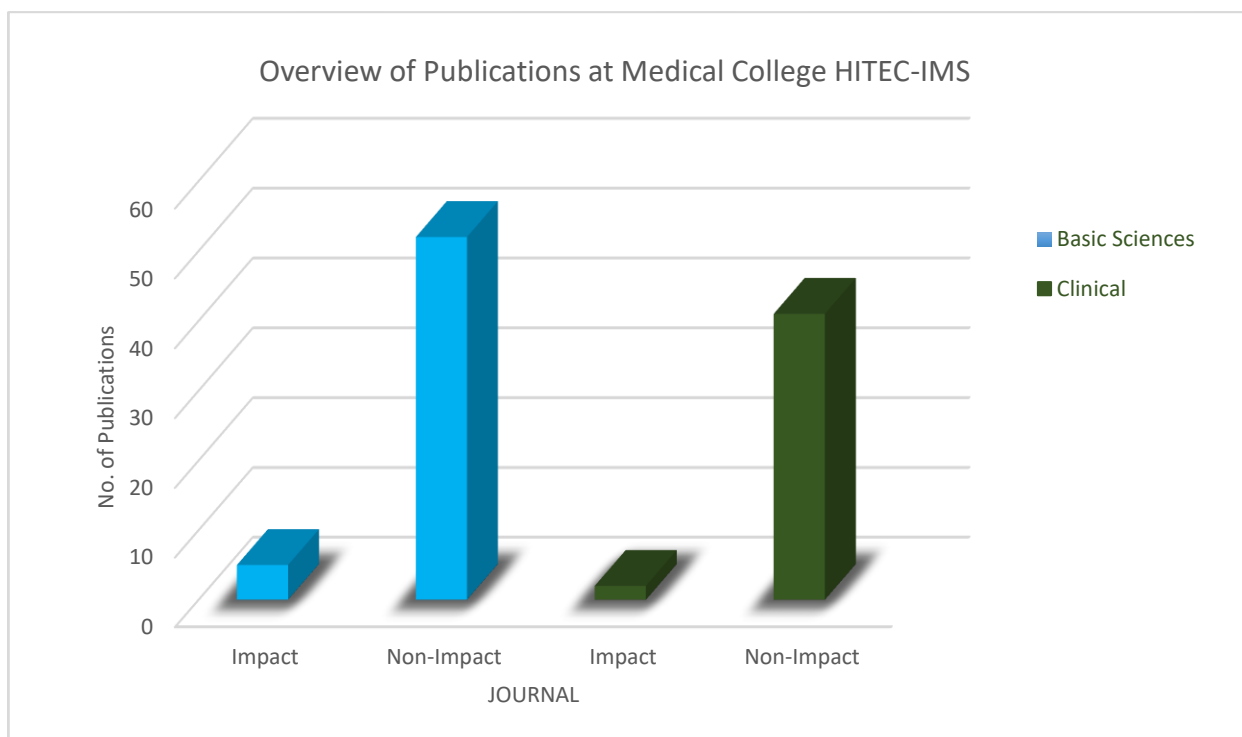
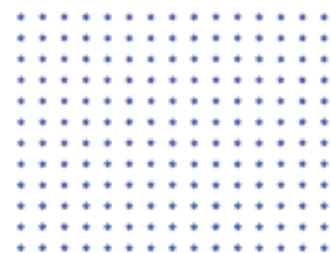


## SECTION I

دیکھیے تو زمانے کو اگر اپنی نظر سے  
اس لال منور ہوں تم سے نورِ حیر سے



# PUBLICATIONS AT MEDICAL COLLEGE HITEC-IMS



Name of Faculty	Title of article	Journal & impact factor
<b>Department of Anatomy</b>		
<b>Prof. Dr. Asma Hafeez</b>	Road ahead; Faculty's proposals for effective transition from conventional to integrated medical curriculum.	HMDJ
	Model for Developing Research Culture Experience at HITEC Institute of Medical Sciences.	PJPH
<b>Dr. Iram Zakria</b>	Effect of Injection Botox in Masseter Muscle on Morphometric Measurements of The Mandible in Sprague Dawley Rats.	PAFMJ
	Road ahead; faculty's proposals for effective transition from conventional to integrated medical curriculum.	HMDJ
<b>Dr. Maleeha Zafar</b>	Comparative Metabolic Properties of Aloe Vera Extracts and Sitagliptin in Diabetic Rats.	Journal of RMC
	Teratogenic Effects of Bisphenol A Exposure During Maternal Pregnancy and Lactation on Developing Rat Pups Testes.	PAFMJ
	Protective Effect of Selenium and Zinc Against Dehp Induced Toxicity in the Thyroid Gland of Rats.	PAFMJ
<b>Department of Physiology</b>		
<b>Prof Dr. Zubia Razzaq</b>	Comparison between Online and On Campus CBL sessions: Perceptions of students in HITEC-IMS, Taxila	Pakistan Journal of Physiology Pakistan
<b>Dr. Mehvish Ashfaq</b>	Protective Effect of Vitamin D supplementation in patients of Acute Coronary Syndrome during Covid 19 Pandemic	PJMHS

	Effect of Vitamin D supplementation on lipid profile in patients of Acute Coronary Syndrome	PJPH
	Effect of supplementation of Acacia Honey and Pioglitazone on Blood Glucose levels of Streptozotocin induced type 2 Diabetic rats.	PAFMJ
<b>Dr. Sidra Jabeen</b>	Comparison between Online and On Campus CBL sessions: Perceptions of students in HITEC-IMS, Taxila.	Pakistan Journal of Physiology Pakistan
	Role of Vitamin D Supplementation in Improving Cytokine Profile in Patients of Non-ST-Elevation Acute Coronary Syndrome.	Journal of Nutritional Science and Vitamin ology./2
	Effect Of Vitamin D Supplementation on Lipid Profile In Patients of Acute Coronary Syndrome.	Pakistan Journal of Physiology Pakistan
	Protective Effect of Vitamin-D Supplementation in Patients of Acute Coronary Syndrome During COVID-19 Pandemic	PJMHS
<b>Department of Biochemistry</b>		
<b>Prof. Dr. Shahid Rauf</b>	Comparative Analysis of Student's Academic Performance in Online and Face to Face Teaching of Biochemistry at HITEC-IMS Taxila	PJMHS
<b>Dr. Ambreen Faisal</b>	Melasma and its Association with Serum Iron Levels and Complete Blood Count.	PJMHS
	ADHFE1 and C-MYC Association and Over-Expression in Different Stages of Human Breast Cancer Tissues.	PJMHS
	The Effect of Blood Sugar Fasting Levels on Diabetic Dyslipidaemia.	PJMHS
	Comparative Analysis of Student's Academic Performance in Online and Face to Face Teaching of Biochemistry at HITEC-IMS Taxila.	PJMHS
	The Therapeutic Potential of the Medicinal Plant Justicia Adhatoda and its Antibacterial and Antifungal Activities: A Comparative study	Altern Ther Health & Med 1.305
<b>Dr. Raheela Yasmin</b>	Molecular Diversification and Frequency of mecA Gene in the MRSA Infections of Hospitalized Patients at Islamabad, Pakistan	PAFMJ
	Analysis of expression and genetic variations in abca1 gene in peripheral blood of type 2 diabetic dyslipidaemia patients	Acta Medica Mediterranea/ 0.219
	The Effect of Blood Sugar Fasting Levels on Diabetic Dyslipidaemia	PJMHS
	Comparative Analysis of Student's Academic Performance in Online and Face to Face Teaching of Biochemistry at HITEC-IMS Taxila.	PJMHS
	Usefulness of Clinical Lectures in First Two Years of Integrated Teaching; Student's Perspective	PJMHS
<b>Dr. Ummara Aslam</b>	Protective Effect of Vitamin-D Supplementation in Patients of Acute Coronary Syndrome During COVID-19 Pandemic	PJMHS
	ADHFE1 and C-MYC Association and Over-Expression in Different Stages of Human Breast Cancer Tissues	PJMHS
	Comparative Analysis of Student's Academic Performance in Online and Face to Face Teaching of Biochemistry at HITEC-IMS Taxila	PJMHS
<b>Dr. Sumaira Rehman</b>	Comparative Analysis of Student's Academic Performance in Online and Face to Face Teaching of Biochemistry at HITEC-IMS Taxila	PJMHS
<b>Dr. Sana Umar</b>	Comparative Analysis of Student's Academic Performance in Online and Face to Face Teaching of Biochemistry at HITEC-IMS Taxila	PJMHS

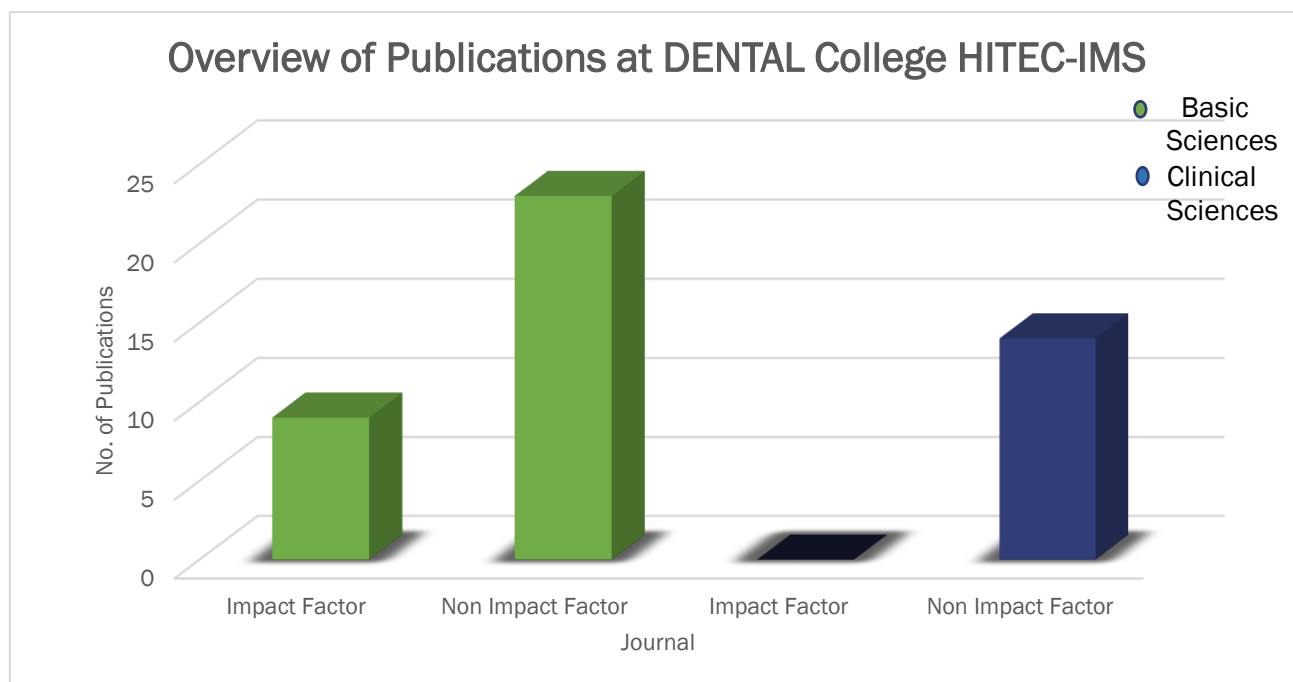
Department of Community Medicine		
Prof. Dr. Aashi Ahmed	Model for Developing Research Culture Experience at HITEC Institute of Medical Sciences.	PJPHS
	Efficacy of panbio tm covid-19 ag rapid test in sars-cov-2 detection: comparison with rt-pcr test.	JAMC/0.57
	The Effect of Blood Sugar Fasting Levels on Diabetic Dyslipidemia.	PJMHS
	Usefulness of Clinical Lectures in First Two Years of Integrated Teaching; Student' s Perspective	PJPHS
	Molecular Diversification and Frequency of mec A Gene in the MRSA infection of Hospitalized Patients at Islamabad, Pakistan.	PAFMJ
	Impact of early clinical exposure upon communication skills pertaining to undergraduate medical students as assessed on Kalamazoo scale.	Journal of RMC
	Effectiveness and Safety of Intense Pulsed Light in Hirsutism.	PJPHS
	Melasma and its Association with Serum Iron Levels and Complete Blood Count.	PJMHS
Dr Anwar Bibi	Diabetic Nephropathy: Duration and Glycemic Control Affect the Outcome	JIMC
	Usefulness of clinical lectures in first two years of integrated teaching : student's perspective	PJMHS
Department of Forensic Medicine		
Prof.Dr. Romana Malik	Relationship between pattern of fingerprints and blood groups	PJMHS
Dr. Muhammad Asif Shahab	Determination Of Female Gender By Value Of Maxillary Sinus Morphology Using Digital Radiography	Journal of RMC
	Relationship between pattern of fingerprints and blood groups	PJMHS
Department of Gynaecology & obstetrics		
Prof. Dr. Fehmida Shaheen	Caesarean ectopic pregnancy: A case report	HMDJ
Dr. Mahwash Jamil	Factors associated with gestational diabetes mellitus and its outcome in pregnancy	PJMHS
Dr. Ayesha Akram	Prevalence of Gynaecological Malignancies in A Tertiary care Hospital in Rawalpindi: A Three-year Review	JSOGP
	Comparison of Frequency of Diagnosis, Induction of Labour and Caesarean Section in Patients with Isolated Oligohydramnios Diagnosed by Amniotic Fluid Index versus Single Deepest Vertical Pocket	Journal of RMC
	Perinatal outcome in cases of isolated oligohydramnios at term at tertiary care centre of Wah Cantt	PJMHS
	Contributor to "Learning emergencies management at HITEC-IMS"	
Dr. Rukhsana Shaheen Afzal	Hyperbaric bupivacaine alone versus hyperbaric bupivacaine and tramadol combination for shivering in spinal anaesthesia surgeries	PJMHS
	Potential enteropathy and malabsorption of bile acid in successive chronic patients and sugar malabsorption of dark origin watery diarrhoea	PJMHS
	Perinatal outcome in cases of isolated oligohydramnios at term at tertiary care centre of Wahcantt	PJMHS
	Comparison of Ayre s spatula versus Cytobrush in adequacy of sample obtained for Pap smear	PJMHS

	Assessment of the efficacy of reflective activities in obstetrics and gynaecology residents for improving certain recognized abilities	PJMHS
<b>Dr. Tanzila Aftab</b>	A Research Study on Determining the Factor of Post Genetic Hopelessness in Ladies at 3 Month Post Delivery Assessment	Annals of R.S.C. B
<b>Dr. Adeela Ameen</b>	A Research Study on Determining the Factor of Post Genetic Hopelessness in Ladies at 3 Month Post Delivery Assessment	Annals of R.S.C. B
	Perinatal Outcome in Cases of Isolated Oligohydramnios at Term at Tertiary Care Centre of Wah Cantt & HIT Taxila	PJMHS
<b>Dr. Tahira Jabeen</b>	Comparison of Ayer's Spatula Versus Cytobrush in Adequacy of Sample Obtained for Pap Smear	PJMHS
<b>Department of Medicine</b>		
<b>Prof. Maj. Gen. Hamid Shafiq</b>	Model for Developing Research Culture Experience at HITEC Institute of Medical Sciences.	PJPHS
<b>Dr. Kausar Malik</b>	Can "HINTS" aid the Diagnosis of Posterior Circulation Stroke among patients with Acute Vestibular Syndrome	Journal of RMC
<b>Dr. Faiza Batool</b>	Frequency of Raised Mean Platelet Volume in patients with acute coronary syndrome in HIT hospital Taxila	Journal of RMC
	Comparison of ALT in Type 2 Diabetics with and without fatty liver disease	Journal of RMC
<b>Dr. Hassan Burrair Abbas</b>	The Therapeutic Potential of the Medicinal Plant Justicia Adhatoda and its Antibacterial and Antifungal Activities: A Comparative Study	Alternative Therapies in Health and Medicine/1.30
	In Vivo Effects of Orally Administered Different Concentrations of Silver Oxide Nanoparticles in Hyperuricemic Mice	Biological Trace Element Research/4.40
	Molecular Diversification and Frequency of mecA Gene in the MRSA Infections of Hospitalized Patients at Islamabad, Pakistan	PAFMJ
<b>Dr. Tooba Iqbal</b>	Frequency of raised mean platelet volume in patients with Acute coronary syndrome in HIT hospital Taxila	Journal of RMC
<b>Dr. Muhammad Mudassar</b>	Incidence of dry socket in Islam Dental College Sialkot.	Medical Forum
	Effectiveness of chlorhexidine gel alone and with metronidazole as prophylactic use in alveolar osteitis.	Medical Forum
	The efficacy of 3% Sodium tetra Decyl Sulphate injection in the management of intraoral soft tissue vascular lesion	PJMHS
<b>Department of Paediatrics</b>		
<b>Brig Nazir Ahmed Malik (R) Professor</b>	Comparison of World Health Organization Treatment For Acute Watery Diarrhoea In Children Without Saccharomyces Boulardii In Term Of Mean Duration Of Diarrhoea	PAFMJ
	Diagnostic Accuracy of Raised Ratio of Neck circumference to thyromental distance NC/TMD for difficult intubation among obese patient	PAFMJ
<b>Dr. Somayya Siddiq</b>	Diagnostic Value of Skin Manifestation in Neonate in First 72 hours of Birth	PJMHS
<b>Dr. Wahid Ali</b>	Spectrum and antibiotic sensitivity pattern of bloodstream bacterial isolates from septicemic neonates	PJMHS
	Study of lower respiratory tract infections in children in a tertiary care hospital	PJMHS
	Clinical outcome of preterm neonates with respiratory distress syndrome on continuous positive airway pressure	JBUMDC
<b>Department of Dermatology</b>		
<b>Prof. Dr. Aqsa Naheed</b>	Herpes Zoster Post Covid-19 Vaccination	PJMHS



	Diagnostic Value of Skin Manifestations in Neonates in First 72 Hours of Birth	PJMHS
	Effectiveness and safety of IPL in Hirsutism	PJMHS
	Melasma and its Association with Serum Iron Levels and Complete Blood Count: A Case Control Study	PJMHS
<b>Department of Ophthalmology</b>		
<b>Prof Col (R) Haroon Javaid</b>	Therapeutic Efficacy of Topical Olopatidine 0.1% Versus Ketotifen Fumerate in Allergic Conjunctivitis.	PAFMJ
<b>Prof. Dr. Shahzad Waseem</b>	Prevalence Of astigmatism in myopic patients	JIMC
<b>Department of Pathology</b>		
<b>Prof. Dr. Farhat Abbas</b>	Variation in Haematological Parameters due to Tobacco Cigarette Smoking in Healthy Male Individuals	The Professional Medical Journal
<b>Prof. Dr. Humaira Zafar</b>	Application of Flow-Cytometry In a Field Of Microbiology; A New Horizon For Rapid Microbial Diagnosis	Journal of Clinical Obstetrics and Gynaecology Research
	Fundamentals of using a Combined Diagnostic Approach for Covid 19 By RT-PCR and HR-CT Scan for early Case Recognition	J Clinical Medical Reviews and Reports
	Utility of Nanoparticles as an Anti-Microbial Agent: A Breakthrough to Manage Anti-Microbial Resistant Bugs	Am J Nanotechnol Nanomed
<b>Dr. Sabahat Rehman</b>	Bacterial Organisms Causing Urinary Tract Infection and their Correlation with Vitamin-D Deficiency in Pediatric Patients Presenting at Tertiary Care Hospital in Pakistan.	PJMHS
	Assessment of distractor efficiency of MCQS in item analysis.	The Professional Medical Journal
	Biofilm Producing Pseudomonas Aeruginosa in Patients with Lower Respiratory Tract Infections.	PJMHS
	Susceptibility to Fluoroquinolones among Salmonella Enterica Serovars in Blood Culture.	PJMHS
<b>Prof. Dr. Wajiha Mah Jabeen</b>	Trends in antimicrobial susceptibility pattern in Methicillin Resistant Staphylococcus aureus in a tertiary care hospital in Islamabad	JUMDC
	Role of Resveratrol supplementation in regulation of glucose haemostasis, inflammation and oxidative stress in patients with Diabetes Mellitus type 2 : A randomized placebo controlled trial	Complementary Therapies in Medicine /2.446
<b>Dr. Shahida Mushtaq</b>	The Effect of Blood Sugar Fasting Levels on Diabetic Dyslipidaemia	PJMHS
<b>Dr. Nazia Siddiqui</b>	Variation in Haematological Parameters due to Tobacco Cigarette Smoking in Healthy Male Individuals	The Professional Medical Journal
<b>Dr. Ambreen Zafar</b>	Variation in Haematological Parameters due to Tobacco Cigarette Smoking in Healthy Male Individuals	The Professional Medical Journal
<b>Department of Radiology</b>		
<b>Dr. Rabia Waseem Butt</b>	Spectrum and Antibiotic sensitivity pattern of bloodstream bacterial isolates from septicemic neonates	PJMHS
	Study of lower respiratory tract infections in children in a tertiary care hospital	PJMHS
	Correlation of mean value of serum creatinine	Pak J Radiol
<b>Dr. Kulsoom Iqbal</b>	Study of lower respiratory tract infections in children in a tertiary care hospital	PJMHS
<b>Department of Neurology</b>		
<b>Prof. Dr. Syed Wasim Akhtar</b>	Application of Maastricht University PBL Model in Year-5 MBBS Students.	FUMJ
	Learning Emergencies Management. HITEC-IMS, Taxila Cantt, first ed 2022: pp 1-114.	Book

# PUBLICATIONS AT DENTAL COLLEGE HITEC-IMS



Name of Faculty	Title of article	Journal Name Impact Factor
<b>Basic Sciences</b>		
<b>Physiology Department</b>		
<b>Prof.Dr.Sadaf Mumtaz</b>	Association of Sleep, Body Weight and Physical Exercise with Plasma BDNF Levels in Healthy Male Saudi Smokers.	Int J Gen Med 2.145
	Bacterial prediction using internet of things (IoT) and machine learning.	Environ Monit Assess. 3.307
	Embedded AI-Based Digi-Healthcare.	Applied Sciences 2.838
	A review of enabling technologies for Internet of Medical Things (IoMT) Ecosystem.	Ain Shams Engineering Journal 4.79
	Evaluating Critical Appraisal Skills by Introducing Journal Clubs to Pre-Clinical Dental Students Using the Assessing Competency in Evidence Based Medicine (ACE) Tool Through Pre & Post Testing	Cureus
	Impact of smoking intensities of sleep quality in young Saudi males a comparative study.	Journal of medicine and life 1.7
<b>Dr. Maryam Ahmad Dr. Ayesha Jabeen</b>	Self-Assessment of critical thinking and active learning in undergraduate dental students using flipped classroom technique and Journal clubs.	HMDJ
<b>Anatomy Department</b>		
<b>Prof.Ayesha Haque</b>	Bacterial prediction using internet of things (IoT) and machine learning	Environmental Monitoring and assessment 2.51
	Effect of Integrated sessions of anatomy and physiology on academic performance: A pilot study	PJMHS

	A review. of enabling technologies for Internet of Medical Things (IoMT) Ecosystem.	Ain Shams Engineering Journal 4.79
	Gestational hyperglycemia, its implications and values	PJMHS
	Reforms in current dental curriculum, through perceptions of medical educationists in Pakistan: A Qualitative Analysis. Professional medical journal.	Professional medical journal
	The Influencing Factors of the Career Pathway for Health Professions' Education. Journal of Rawalpindi Medical College.	JRMC
	Perceptions of faculty teaching anatomy online during COVID-19, A Qualitative study.	PJMHS
<b>Biochemistry department</b>		
Dr Ambreen Gul	Efficacy of panbiotm covid-19 ag rapid test in sars-cov-2 detection: comparison with rt-pcr test	JAMC
	Agile Management in Health Professions Education with Respect to Waterfall Life Cycle	Pak Armed Forces Med J
	Apoptosis in Human Papillomavirus-Induced Cervical Cancer Cells by Higher Doses of Ascorbic Acid	Pak Armed Forces Med J
	Molecular Diversification and Frequency of mecA Gene in the MRSA infections of hospitalized patients at Islamabad, Pakistan	Pak Armed Forces Med J
<b>Dental Materials</b>		
Dr. Shahreen Zahid Khan	Physico-Mechanical Properties of Commercially Available Tissue Conditioner Modified with Synthesized Chitosan Oligosaccharide	Polymer 4.19
Dr. Maryam Saeedullah	Evaluation Of Surface Topography Of A Brand Of Stainless Steel K Files; An In-Vitro Study	Monthly Medical Forum
	Evaluation Of Alloy Composition Of A Brand Of Stainless Steel K-Files	Monthly Medical Forum
Dr. Nausheen Ashraf	Evaluation Of Surface Topography Of A Brand Of Stainless Steel K Files; An In- Vitro Study	Monthly Medical Forum
	Evaluation Of Alloy Composition Of A Brand Of Stainless Steel K-Files	Monthly Medical Forum
<b>Oral pathology</b>		
Dr Sobia Siddique	Increase in oral malodor in patient with fixed orthodontic treatment.	PJMHS
	Dental caries among the patients visiting HBS Dental College and Hospital, Islamabad.	PJMHS
	Role of calcium in development of early childhood dental caries	PJMHS
Dr Azka Haroon	Cut-off values of prostate specific antigen density- an effective screening marker before prostate biopsy	KMJ
	Diagnostic Accuracy of Prostatic Specific Antigen Density in Different Prostatic Disorders	PAFMJ
<b>Oral Biology</b>		
Dr.Saman Malik	Did We Deliver Quality Education in Online Sessions During Covid 19	PJMHS
	Lock Down? Learner's Perspective from a Developing Country A Cross-Sectional Study of factors associated with prevalence and progress of Dentin Hypersensitivity	PJMHS

**Community Dentistry**

<b>Dr.Maria Rabbani</b>	Assessment of 3 rd Year MBBsand BDS students knowledge about Hepatitis B virus and their attitude	PJMHS
<b>Dr Fatima Tu Zahra</b>	Pattern of partial edentulism according to Kennedy's classification among patients presenting in tertiary care hospital of Taxila	PJMHS

**Clinical Sciences**

**Operative Dentistry**

<b>Prof.Dr Beenish Qureshi</b>	Correlation of Oral Hygiene knowledge and practice among undergraduate dental students	JPMI
<b>Dr Sharaz Ahmed</b>	Antibiotic over prescription in Irreversible pulpitis; A perception based study in Quetta, pakistan	Annals of PIMS
<b>Dr. Hamza Ulfat</b>	An assessment of morphological patterns and number of canals in mesiobuccal root of maxillary second molars in our patients: Analyzed by CBCT	IMJ
	Frequency of root canal configurations of maxillary premolars as assessed by CBCT scans in Pakistani sub-population	SEJ

**Prosthodontics Department**

<b>Dr Amir Rafiq</b>	Pattern of partial edentulism according to Kennedy's classification among patients presenting in tertiary care hospital of Taxila	PJMHS
	Knowledge, attitude, and preference of pontic design Among general dental practitioners of Lahore	PODJ
<b>Dr. Syeda Sameen Zehra Rizvi</b>	Knowledge, attitude, and preference of pontic design Among general dental practitioners of Lahore	PODJ
	Knowledge, attitude, and preference of pontic design Among general dental practitioners of Lahore	PODJ
<b>Dr Amna Nisar</b>	Pattern of partial edentulism according to Kennedy's classification among patients presenting in tertiary care hospital of Taxila	PJMHS

**Oral Maxillofacial surgery**

<b>Dr. Maimoona Siddiq</b>	Arthrocentesis in Temporomandibular Joint disc Derangement Patients, with and without Hyaluronic Acid, A Clinical Trial.	PJMHS
	Pattern of tooth extraction in a tertiary care hospital.karachi.Pakistan	TPMJ
<b>Dr.Fatima Khattak</b>	Arthrocentesis in Temporomandibular Joint disc Derangement Patients, with and without Hyaluronic Acid, A Clinical Trial	PJMHS
	Comparison of Two Suturing Techniques in Removal of Mandibular 3 rd Molar Surgery	PJMHS

**Orthodontics department**

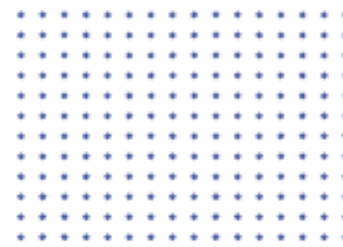
<b>Dr. Shahzonia Tariq</b>	Effectiveness of Xylitol Chewing Gum in patients with Orthodontic Pain	PJMHS
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# SECTION II

## WORKSHOPS



# GOOD CLINICAL PRACTICE (GCP)



The principles of Good Clinical Practice (GCP) underpinned the legal requirements for the conduct of clinical trials around the world. GCP training was originally developed as a unified standard by the European Union (EU), Japan and the United States (US), it also forms the basis of national regulation in many other countries, including China, India, Korea and Brazil.

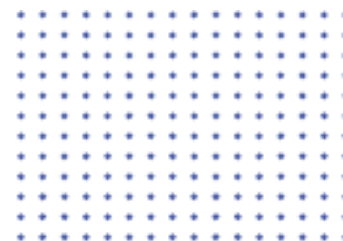
A strong understanding of GCP is a fundamental requirement for anyone intending to participate in any aspect of clinical research, whether in industry, healthcare provision or academia.

This course introduced GCP for not only new professionals, but also served as a refresher for those who feel they need it. The programme was clear and simple in design and gave full instructions for use.

A GCP training workshop was conducted on 6th and 7th December 2022 in the form of an interactive session by Dr. Shahreen Zahid in conference room of Dental College HITEC-IMS. At the end of the session all participants gained international certificate of GCP.

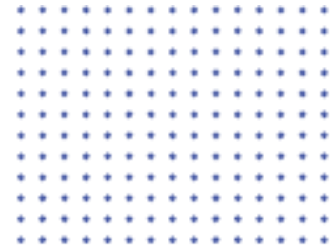


# WORKSHOP OF MEDICAL COLLEGE HITEC-IMS



Title of workshop	Name of Faculty	Date/Venue	Attended/Conducted/Facilitated
Advanced SPSS	Prof.Dr. Iram Tassaduq Prof. Dr. Shahid Rauf Prof. Dr. Naeem Shahid Prof. Dr. Naila Abrar Dr. Rabia Waseem Butt Dr. Shahida Mushtaq Dr. Iram Zakria Dr. Maleeha Zafar Dr. Wahid Ali Dr. Faiza Batool Dr. Kausar Malik Dr. Tooba Iqbal	February 22-23,2022 HITEC-IMS	Attended
How to review a research paper PPS17: 2021	Prof.Dr. Humaira Zafar	Nov 2022.AI Nafees Medical College, Islamabad	Conducted
Selection of Research topic & Gap analysis	Prof.Dr Wajiha Mah Jabeen	September 30th 2022.HITEC-IMS	Conducted
	Prof.Dr. Iram Tassaduq Dr. Salma Shahab Dr. Maleeha Zafar Dr. Sana Umar Dr. Tooba Iqbal Dr. Rukhsana Shaheen Afzal Dr. Somayya Siddiqa Dr. Roma Salman Dr. Rabia Ashraf Dr. Maria Sattar Dr. Woshah Zafar Dr.Rubace Fatima Dr. Sumera Mumtaz Dr. Yusra Hameed Dr. Maryam Ahmer Dr. Hassam Nasir Khan		Attended
Research Ethics	Dr. Mahwash Jamil	21 March 2022/LSHTM	Attended
Research methodology, Biostatistics & Medical writing	Dr.Ayesha Akram	17th-20th March, 2022	Attended
	Dr. Rukhsana Shaheen Afzal	October,2022 CPSP Islamabad	Attended
	Dr. Tanzila Aftab Dr. Kulsoom Iqbal	Hitec-IMS	Attended

# WORKSHOP AT DENTAL COLLEGE HITEC-IMS



Title of Workshop	Name of faculty	Date/ Venue	Attended/Conducted/ Facilitated
R.M.I descriptive statistics	Dr Faizan Munir Khan Dr Zerlis Nawaz Miss kainat Fatima	13-6-22 Dental College HITEC-IMS	Facilitated
	Dr. Shahzonia Tariq Dr Shahreen Zahid Dr Sameen Zehra Dr. Maria Rabbani Dr Saleha Saeed Dr Azka Haroon Dr Naufal Nadeem Dr Sadia Israr Dr Kiran Rasheed Dr Rabia Salman Dr Fatima Rizwan Dr Zulaikha Dr Amna Faisal Dr Hasnain		Attended
Research Methodology II Hands on SPSS and Reference Management	Dr Faizan Munir Khan Dr Zerlis Nawaz Miss kainat Fatima	28-7-22	Facilitated
	Dr Hasnain Dr Shezonia Dr Naufel Dr klnza Dr Rabia Salman Dr Kiran Rasheed Dr Saleha Saeed Dr Fatima Rizwan Dr Azka Haroon Dr Maria Rabbani Dr Amna Nisar		Attended
SPSS Data Entry and Likert Scale	Dr Faizan Munir Khan Dr Zerlis Nawaz Miss kainat Fatima	14-9-22	Facilitated
	Dr Hasnain Dr Shezoia Dr Khadija Tariq Dr Rabia Salma Dr Saleha saeed Dr Azka Haroon Dr Zulaikha Dr Maria Rabbani Dr Fatima Tuz Zehra Dr Amna Khan		

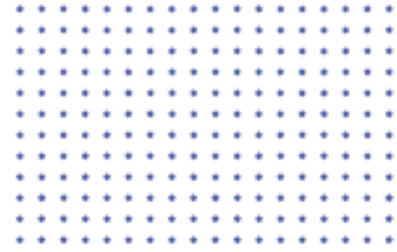


# SECTION III SEMINARS & CONFERENCES



## SEMINARS & CONFERENCES

# 1ST ANNUAL RESEARCH MEETUP 2022



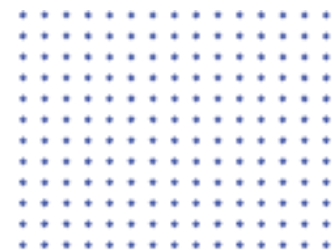
Organised by Department of Research & Development Armed Forces Post Graduate Medical Institute

AFPGMI organised 1<sup>st</sup> Annual research meetup 2022. The agenda of this meetup was to provide a platform from various healthcare and allied disciplines to share their research ideas and work.

Prof. Dr sadaf Mumtaz was invited as keynote speaker to the event where she spoke about the importance of research and emphasized upon bringing together the young researchers to exchange knowledge and work on collaborative projects.

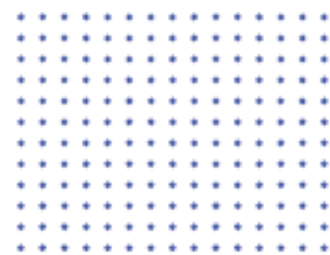


# SEMINARS & CONFERENCES OF MEDICAL COLLEGE HITEC-IMS



Name of Faculty	Topic of Conference	Date/ Venue	Organized/ Facilitated	Attended/Presented
Prof. Dr. Irum Tassaduq	Thinking about improving medical education Webinar on WFME	9/06/22 Army Medical College	NUMS Dow Medical University	Attended
	Policies and PMC recognition. Separating facts from myths	11/9/22 Online		Attended
Prof. Dr. Aashi Ahmed	3rd International Conference on Lifestyle Medicine	26 <sup>th</sup> to 28 <sup>th</sup> Oct,2022	Riphah Institute of Life Style Medicine	Attended
	12 <sup>th</sup> Annual Public Health Conference. Regional Research to Action Conference On SRHR	1 <sup>st</sup> -2 <sup>nd</sup> Nov,2022	Health Services Academy, Islamabad	Attended
Dr. Roma Salman	Breast Cancer Awareness seminar	26 October 2022	HITEC University	Presented
Dr. Maria Sattar Dr. Woshah Zafar	Forensic day	8 <sup>th</sup> September, 2022 /Hitec IMS	Department of Forensic Medicine and Toxicology	Facilitated
Prof.Dr. Fehmida Shaheen	SOGP Scientific conference	25-27Feb 2022/Karachi	SOGP	Attended
Dr. Tahira Jabeen	SOGP	March 2022	SOGP	Attended
Dr. Wahid Ali	26 <sup>th</sup> Biennial international pediatric conference	28 <sup>th</sup> to 30 <sup>th</sup> October 2022	Pakistan pediatric association	attended
Dr.Sumera Mumtaz	Student IRB	6 <sup>th</sup> June 2022/ Conference room	Research cell	Attended
Dr. Raheela Yasmin	International conference of Medical Education	October 21-22	Riphah International University	Attended
	4 <sup>th</sup> international conference on Health education profession	22 <sup>nd</sup> October 2022 online	University college of medicine and Dentistry	Attended

# SEMINARS & CONFERENCES AT DENTAL COLLEGE HITEC-IMS



Name	Name / Topic of Conference	Attended / Participated	Date/ Venue	Organized by
<b>Dr. Sobia Siddique Dr Azka Haroon</b>	British Society for Oral and Maxillofacial Pathology- event	Attended	28-29/04/2022 online	The Royal College of Pathologists
<b>Prof. Dr.Irfan Shah</b>	Face Ahead Global CMF Summit Barcelona, Spain	Speaker	05 -07 May 2022 Switzerland	AOCMF / AO Foundation
<b>Prof. Dr.Irfan Shah</b>	AOCMF Management of Facial Trauma Course, Ibadan, Nigeria	Speaker	23 -24 Sept 2022 Nigeria	International Craniofacial Academy & AOCMF, Switzerland
<b>Prof. Dr.Irfan Shah</b>	Management of Babies with Cleft Lip - From Birth to Lip Repair	Speaker	19-10-2022 Dental College Hitec-Ims	Oral maxillofacial surgery and orthodontics department
<b>Dr Fatima Khattak</b>	AOCMF Advanced seminar on orthognathic surgery	Attended	20-10-2022	Foundation University College Of Dentistry And Hospital Islamabad
<b>Prof. Dr.Irfan Shah Dr Maimoona Dr Fatima khattak</b>	13 <sup>th</sup> Pakistan Conference on Oral & Maxillofacial Surgery	Attended	21 -23 Oct 2022 Armed Forces Institute of Dentistry (AFID)	Pakistan Association of Oral & Maxillofacial Surgeons
<b>Prof. Dr.Irfan Shah</b>	3 <sup>rd</sup> Young Scientists Research conference	Keynote speaker	28 Oct 2022	Foundation University

# SECTION IV

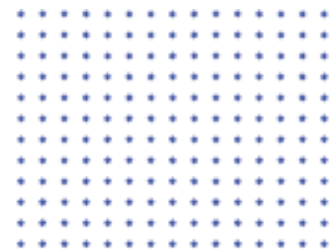


## JOURNAL CLUB

A journal club is an educational meeting to discuss the published articles. The main aim is to keep abreast of new knowledge. It promotes the awareness of current research findings, teaching to critique and appraise research, and encourages to utilize research in evidence-based practice of the specialty.

At HITEC-IMS (Medical and Dental College) regular Journal club meetings are held. All faculty members become part of this activity. These journal club meetings are dynamic, modern and interactive.

These meetings are facilitated to evoke an interest in research and this, in turn, fuels evidence-based medicine and dentistry with and provision of a medium that stimulates discussion and debate.

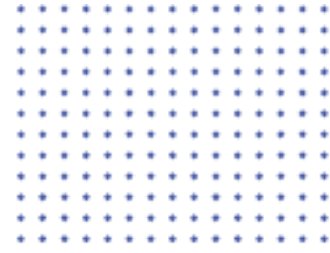


Presenters	Title of Article
<b>Department of Anatomy</b>	
Prof. Dr. Asma Hafeez	Reticular epithelium and underlying high endothelial venules of human nasopharyngeal and palatine tonsils: A comparative histological study.
Professor Iram Tassaduq	Reaffirming the importance of Traditional Teaching Methodology from the perspective of Anatomy
Dr. Iram Zakria	Effect of hormone replacement therapy on gross Appearance, relative organ weight and volume of liver in Ovariectomized rat model
	The Pattern Of Branching And Intercommunications Of The Musculocutaneous Nerve For Surgical Issues: Anatomical Study
Dr. Maleeha Zafar	The neuroprotective effect of curcumin against tartrazine-induced neurobiochemical and histopathological changes in the gray matter of motor cortex of brain of sprague dawley rats
Dr. Ayesha Fatima	Anatomical considerations and clinical implications of bicipital aponeurosis: A magnetic resonance imaging study Mehtap Balaban1
Dr. Saqib Nasir	Comparison of two teaching aids: “PowerPoint and Chalkboard” in Undergraduate Anatomy Teaching.
<b>Department of Biochemistry</b>	
Prof. Dr Shahid Rauf	A call for mentoring of medical students in the backdrop of integrated curriculum.
Dr. Ambreen Faisal	In vivo effects of orally administered different concentrations of silver oxide nanoparticles in Hyperuricemic mice.
Dr. Raheela Yasmin	Analysis of expression and genetic variations in abca1 gene in peripheral blood of type 2 diabetic dyslipidemia patients
Dr. Ummara Aslam	Experience of e-learning and online assessment during the COVID-19 pandemic at the college of Medicine ,Qassim University
Dr. Sana Omer	Vitamin D Deficiency in patients with Diabetes in French Guiana: Epidemiology and Relation with Microrovascular and Macrovascular Complications
Dr. Sumaira Rehman	Use of Cell Phones by Students during Lectures
Dr Ayesha Javed	mi-RNAs in beta-thalassemia
Dr. Hafiz M Ali Khan	Child physical Abuse: awareness and practices of medical and dental doctors in Pakistan.
<b>Department of Physiology</b>	
Dr. Mehvish Ashfaq	Effect of Vitamin D supplementation on lipid profile in patients of acute coronary syndrome
	Attribution Theory, Achievement Motivation and the Educational Process
Dr. Sumera Mumtaz	Complete blood count alterations in COVID-19 patients: A narrative review
	COVID-19 Severity System in Radiological Imaging-A review
Dr. Aamina Masud	Relation between fingerprints and different blood groups
Dr. Yusra Hameed	Neutrophil to lymphocyte ratio, platelets to lymphocyte ratio, and eosinophils correlation with high resolution computer tomography severity score in COVID-19
Dr. Sarah Ramona	Aggressive thrombophylaxis improves clinical process and decreases the need of Intensive Care Unit in Covid-19
<b>Department of Forensic Medicine &amp; Toxicology</b>	
Dr Woshah Zafar	Relationship between finger prints and IQ and EQ among medical students of HITEC IMS
	Post mortem imaging in forensic investigations: current utility, limitations, and ongoing developments
Dr Maria Sattar	Analysis of Road traffic accidents fatalities in Karachi, Pakistan. An autopsy based study
Dr. Rubace Fatima	Post mortem imaging in forensic investigations: current utility, limitations, and ongoing developments

<b>Department of Community Medicine</b>	
<b>Dr. Saima Umair</b>	Study protocol, behaviour change intervention to promote healthy diet and physical activity in overweight obese individuals with diabetes attending health care facilities in Muscat
	Association of Physical Activity and Sleep quality with academic performance among medical students of Rawalpindi Medical college
	Factors associated with knowledge of obstetric danger signs and perceptions of the need for obstetric care among married men in northern nigeria
<b>Dr. Wafa Alvi</b>	Artificial intelligence and medical education: A global mixed-methods study of medical student perspective
	Work place stress and productivity: A cross-sectional study
<b>Dr. Roma Salman</b>	Artificial intelligence and medical education: A global mixed-methods study of medical student perspective
<b>Dr Mohsin Raza</b>	Psychological changes in Doctors working in Paediatrics, Gynaecology, Medicine and Surgery during Corona Pandemic
	A Study on Emotional Intelligence At Workplace
<b>Department of Pathology</b>	
<b>Dr Farhat Abbas</b>	Overview of myelodysplastic syndrome
<b>Dr Alia Zubair</b>	Continuous Glucose Monitoring: A Review of Successes, Challenges, and Opportunities
<b>Dr Wajihah Mah jabeen</b>	Effects of Delta tocotrienol supplementation on glycemic control, oxidative stress, inflammatory biomarkers and miRNA expression in type 2 Diabetes mellitus: a randomized control trial
<b>Dr Shahida Mushtaq</b>	Cystatin C as screening biomarker of gestational diabetes mellitus
<b>Dr Ambreen Zafar</b>	Diagnostic value of conventional fine needle aspiration cytology in cervical lymphadenopathy
<b>Dr Nazia Siddiqui</b>	Acute Myeloid Leukemia: A comprehensive review and 2016 update
<b>Department of Medicine</b>	
<b>Dr. Tooba Iqbal</b>	Cilostazol for Secondary Prevention of Stroke and Cognitive Decline Systematic Review and Meta-Analysis
	Bisphosphonate therapy in rheumatoid arthritis
	Physician Burnout and Depression report 2022: Stress, Anxiety and Anger
	Nonspecific low back pain
	57 year old man with persistent cough and pulmonary opacities
	An 80 year old woman with pancytopenia
	Pulmonary embolism
	Hematuria in adults
<b>Dr. Muhamad Mudassar</b>	Comparison of treatment effects after total mandibular arch distalization with miniscrews vs ramal plates in patients with class III malocclusion
	Assessment of palatal rugae morphology for gender identification
	Endodontic pulp revitalization in traumatic necrotic immature permanent incisors, early failure and long term outcome – A longitudinal cohort study
	A clinical study comparing digital scanning and conventional impression making for implant supported prosthesis :a cross over clinical trial
	Does open reduction and internal fixation yield better outcomes over closed reduction of mandibular condylar fractures
<b>Department of Pediatrics</b>	
<b>Dr Bushra</b>	Maternal c-reactive protein in pregnancy and its relation with early onset neonatal sepsis
	Comparison of Efficacy and safety of caffeine and aminophylline for apnea of prematurity and preterm
<b>Dr Qurat Ul Ain</b>	Management and outcomes of neonatal hypoglycemia.
	The effect of oral dextrose on pain relief in new born
<b>Dr Somayya</b>	The effect of table salt is a treatment of umbilical granuloma in neonate
<b>Dr Komal</b>	Role of oral versus iv sildenafil for pulmonary hypertension in neonate
<b>Department of Gynaecology &amp; obstetrics</b>	
<b>Dr. Ayesha Akram</b>	“Effectiveness of Manual Vacuum Aspiration (MVA) Device in the Management of Intrauterine Copper Devices (IUCD) with Missing Strings: A Prospective Interventional Study Prophylactic antibiotics in caesarean delivery before or after cord clamping – protecting the mother at the expense of the infant’s microbiota?”

<b>Dr Mahwash Jamil</b>	Corona virus infection in pregnancy Green-top Guideline No. 8: Amniocentesis and Chorionic Villus Sampling
<b>Dr Rukhsana Shaheen Afzal</b>	Early second look hysteroscopy: Prevention and treatment of intra uterine post surgical adhesions
<b>Dr. Tanzila Aftab</b>	Role of Laparoscopy in Evaluation of Primary Infertility.
<b>Dr Adeela Ameen</b>	Sildenafil citrate as an adjuvant to clomiphene citrate for ovulation induction in polycystic ovary syndrome: crossover randomized controlled trial
<b>Dr Tahira Jabeen</b>	A randomized controlled trial of cystoinflation to prevent bladder injury in the adhesive diseases of multiple caesarean sections
<b>Department of Radiology</b>	
<b>Dr. Rabia Waseem Butt</b> <b>Dr. Kulsoom Iqbal</b>	Detection of breast cancer with mammography: effect of an artificial intelligence support system
	Creating joy in the workplace
	Renal transplant evaluation: multimodality imaging of post-transplant complications.
	Thoracic aortic diameter and cardiovascular events and mortality among women and men
	CT Versus Endoscopic Ultrasound for Differentiating Small (2–5 cm) Gastrointestinal Stromal Tumors From Leiomyomas
	A review of paediatric soft tissues masses referred to a tertiary musculoskeletal sarcoma centre
	Sedation/ anaesthesia in pediatric radiology
	Utility of enhanced CT for patients with suspected uncomplicated renal colic and no acute findings on non-enhanced CT
	Use of Chest X-Ray Examination as a Diagnostic Aid for Detection of Dengue Haemorrhagic Fever
	Burnout and posttraumatic stress disorder in the coronavirus disease 2019 (COVID-19) pandemic: intersection, impact, and interventions





Presenter	Title	Date	Department
<b>Dr Sohaib Siddique</b>	Managing the consequences of periodontal diseases /treatment gingival recession	10-12-2021	Periodontology
<b>Dr Rabia Shabbir</b>	A mixed-method study on students and teachers perceptions of curriculum viability inhibitors	07-01-2022	Biochemistry
<b>Dr Fatima Arshad</b>	Perception of smile esthetics by lay people of different ages	4-3-2022	Anatomy
<b>Dr Hamza Amanat</b>	Perception of dental faculty and students and its application in public sector dental college in Karachi	18-4-2022	Oral Medicine
<b>Dr Sana Tariq</b>	Comparison of treatment effects after total mandibular arch distalization with minis crews vs ramal plates in patients with class III malocclusion	9-6-2022	Orthodontics
<b>Dr Kiran Rasheed</b>	Assessment of palatal rugae morphology for gender identification	04-08-2022	Oral Biology
<b>Dr Afshan Bibi</b>	Endodontic pulp revitalization in traumatic necrotic immature permanent incisors, early failure and long term outcome – A longitudinal cohort study	01-09-2022	Operative Dentistry
<b>Dr Sameen Zehra</b>	A clinical study comparing digital scanning and conventional impression making for implant supported prosthesis :a cross over clinical trial	06-10-2022	Prosthodontics
<b>Dr Adam</b>	Does open reduction and internal fixation yield better outcomes over closed reduction of mandibular condylar fractures?	03-11-2022	Oral Maxillofacial surgery
<b>Prof. Dr. Zafar Iqbal</b>	Active surveillance for T1bNOMO Papillary Thyroid Carcinoma	01-12-2022	General Surgery

# SECTION V INTEREST GROUPS



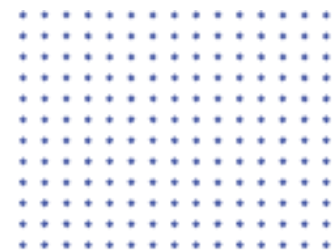
# SUB-SECTION V-A

## FACULTY RESEARCH INTEREST GROUP

Faculty interest group provides mentoring to all the research/academic activities carried out by faculty members. Clinico-pathological conferences, journal clubs and other research activities of the faculty are arranged, and research facilities are provided.



# FACULTY INTEREST GROUP AT MEDICAL COLLEGE

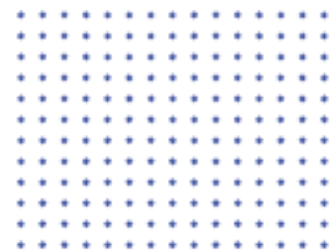


Total number of research approved: **18**  
 Total number of research Published: **02**  
 Total number of research sent for Publication: **07**  
 Total number of research in the pipeline: **09**

S.No.	Title	Department	Status
1.	Students' Perceptions and Practices regarding Clinical lectures in First two years of integrated teaching at HITEC-IMS and its relation with academic performance.	Community Medicine	Published in "Pakistan Journal of Medical & Health Sciences"
2.	Morphometrical analysis of femoral surface in dry human tibia.	Anatomy + Radiology	Data Analysis in the process
3.	Academic motivation in undergraduate medical students, a prospective study	Anatomy	Manuscript sent for Publication
4.	Physiotherapy exercises in VBAC patients.	Physiotherapy	Data Collection in the process
5.	Comparison of student's academic performance in online and face to face teaching of Biochemistry at HITEC-IMS TAXILA	Biochemistry	Published in "Pakistan Journal of Medical & Health Sciences"
6.	Comparative analysis of the incidence of Hypotension in Phenylephrine Prophylactic VS Therapeutic use in spinal anesthesia patients at HITEC IMS	Pharmacology/ Anesthesia	Manuscript Sent for Publication
7.	Comparison between Online and On-campus CBL sessions: Perception of students and teachers in a Private Medical College.	Physiology	Manuscript accepted for publication in "Pakistan Journal of Physiology"
8.	Variation in Haematological Parameters due to Tobacco Cigarette Smoking in Healthy Male Individuals	Pathology	Manuscript sent to research cell, Ready for Publication.
9.	Knowledge, Attitude and Practice Towards Cervical Cancer Screening Among Health Care Professionals In a Tertiary Care Unit.	Gyne/ Obs	Discussion Phase completed Ready for Publication
10.	Perceived stress among caregivers of children with chronic illness	Pediatrics	Data Collection in the process
11.	Incidence of astigmatism after phacoemulsification cataract surgery at HITEC-IMS Taxila	Eye	Manuscript sent to research cell, Ready for Publication.
12.	Correlation between the duration of nonspecific low back pain and severity of radiological findings on Plain X ray Lumbosacral spine.	Radiology	Data analysis in phase
13.	Comparison of lateral approach with the conventional midline approach in non-recurrent Thyroid surgery	Surgery & Allied	Data Collection in the process
14.	Correlation of Fingerprints with IQ and EQ	Forensic medicine	Manuscript sent to research cell, Ready for Publication.

15.	Frequency of raised Mean Platelet volume in patients with Acute Myocardial Infarction in HIT hospital Taxila	Medicine & Allied	Manuscript Sent for Publication in "Journal of Rawalpindi Medical College"
16.	Anxiety and depression among caregivers of psychiatric patients and their coping mechanisms	Psychiatry	Manuscript is Completed, and ready for publication
17.	Prevalence of hearing loss in industrial workers of Taxila.	ENT	Data Analysis done
18.	Prevalence of fever and sore throat in coronavirus patients in Taxila.	ENT	Data Analysis done

# FACULTY INTEREST GROUP AT DENTAL COLLEGE



Total research projects = 05

IRB approved = 01

Writing in process = 03

Proposal formulation = 01

S.No	Title	Department	Status
1	Prevalence of periodontal lesions in different trimesters of pregnancy attending antenatal clinic	Oral Pathology Oral Medicine	Proposal formulated IRB approved
2	Clinical micro learning environment of post graduates dental institute of Pakistan	Orthodontics	Proposal formulated IRB approved Data collection complete Write-up in process
3	Correlation between lateral cephalometric and facial photographic measurements for the odontic diagnosis in patients with mandibular deficiency	Orthodontics	Write up in process
4	Role of mandibular third molars in mandibular anterior crowding	Orthodontics	Write up in process
5	Effect of cocoa on adipokine level, obesity and hypertaxia	Physiology	Proposal formulation under process

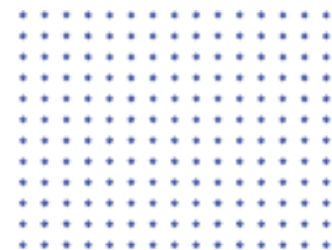
# SUB-SECTION V-B

## STUDENT RESEARCH INTEREST GROUP

Research work is of utmost importance for an institute. It is imperative to engage the students in research and make the research work interesting to them. It empowers them to develop passion for research, think logically, become self-sufficient learners, develop writing skills and be self-confident.



# STUDENT INTEREST GROUP OF MEDICAL COLLEGE HITEC-IMS



Total number of research projects approved: **13**

Total number of research projects sent for Publication/ Published: **01**

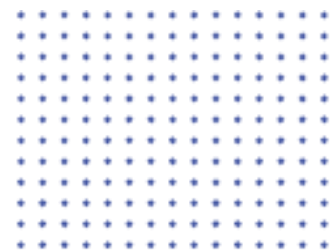
Total number of research projects in the pipeline: **12**

S.No.	Title	Researcher	Status
1.	Honey Dressing -A Preventive Procedure for Post-Surgical Site Infection.	Syed Muhammad Ali Haider 5 <sup>th</sup> Year	Funds approved, Data collection to be started.
2.	Breast Cancer; Clinical Spectrum and Genetic Abnormalities in Women of Reproductive Age.	Syed Muhammad Ali Haider 5 <sup>th</sup> Year	Discussion writing, will be submitted for the publication till December 2022
3.	Workplace issues of junior doctors and outcomes on their performance among doctors of HITEC-IMS.	Qurat-ul-ain, Areej Khan Asghar 5 <sup>th</sup> Year	Manuscript Writing
4.	Prevalence of astigmatism in myopic patients.	Najeeba Harim 5 <sup>th</sup> Year	Discussion writing, will be submitted for the publication till December 2022
5.	Low-cost vein finder using pure red leds: an approach using the near-infrared (nir) spectrum.	Taha Naveed 5 <sup>th</sup> Year	Manuscript writing
6.	Association between urban residence and postpartum depression in mothers; A case-control study.	Muhammad Moeed Azwar Bhatti 2 <sup>nd</sup> Year	Data analysis started
7.	Effect of health education on attitude to choose different labor analgesic methods in mothers visiting HIT hospital, Taxila.	Hafsa Niazi 5 <sup>th</sup> Year	Data collection in progress
8.	Determining the awareness regarding labor analgesia and choices available to multigravida women attending antenatal clinics in a town of Punjab, Pakistan.	Hera Rashid 5 <sup>th</sup> Year	Data collection in progress
9.	Frequency Of Misuse of SSRIs Among Medical Students.	Syed Muhammad Ali Haider 5 <sup>th</sup> Year	Data analysis in progress
10.	Perinatal Anxiety Prevalence - Among Primary Gravida and Multigravida to Distinguish the High-Risk Group in Pregnant Women Attending Antenatal Hospitals in Taxila.	Tehniat Bashir 5 <sup>th</sup> Year	Data collection in progress
11.	Evaluation of levels of awareness of PCOS among female students of medical and non-medical institutes.	Syed Muhammad Ali Haider 5 <sup>th</sup> Year	Discussion writing, will be submitted for the publication till December 2022
12.	The attitude of School Teachers Towards ADHD-like behaviour in Students; a survey in HITEC.	Muhammad Ahmed Student	Data collection in progress
13.	Patterns of inheritance and diagnostic features of Spinal Muscular Atrophy in areas with high rates of consanguineous marriages.	Syed Muhammad Ali Haider 5 <sup>th</sup> Year	Published in "The Professional Medical Journal"
14.	Self-medication of anxiolytics, Antidepressants, and psychoactive stimulants, Among Medical and Dental Students of HITEC-IMS Taxila	Supervisor Dr. Anwar Bibi (4 <sup>th</sup> year MBBS)	Data Analysis in Process





# STUDENT INTEREST GROUP AT DENTAL COLLEGE



S.No.	Title	Researcher	Status
1.	Prevalence of dental caries in different blood groups among the students of dental college HITEC-IMS.	Malaika Habib, Umm-e-hani, Hamza Tariq, Haider Ali Awan	Data progress
2.	Relationship of blood groups with dental caries in first year dentistry students of dental college HITEC-IMS	Malaika Habib, Haider Ali Awan, Hamza Tariq, Umm-e-hani,	Data progress
3.	Pattern of angulation of third molar and its relation to Inferior alveolar nerve	Sadia, Hamna, Iqra faryad, Aleeha amjad	Manuscript Writing
4.	A single dose of Amoxicillin and dexamethasone for prevention of post-operative complication in third molar surgery. A randomized control trial	Arooba, Kanza, Alishba, Wajeeha	Manuscript Writing
5.	Evaluation of awareness and preparedness for medical emergencies among dental practitioner in Punjab: A cross sectional study	Dr Zuhair Mehdi, Dr. Fatima Khattak, Arooba, Kanza, Alishba, Wajeeha	Manuscript Writing
6.	Attitude of final year dental students to the use of rubber dam.	Aneeqa Tahir, Nimra Noor, Ayesha Siddiq, Sawera Shabbir, Minahil Fatima	Data collection
7.	Factors affecting stress among HITEC-IMS dental students	Sadia Usman, Khadija Bilal, Mehwish Sajjad, Laiba Taimoor, Iqra Manzoor, Dr sharaz Ahmed	Data collection
8.	Role of the presence of Mandibular third molars as a risk factor in Mandibular anterior crowding.	Monal Fatima, Urwah Qaseem, Sana Irfan, Shawaiz khan	Data collection

# SECTION VI

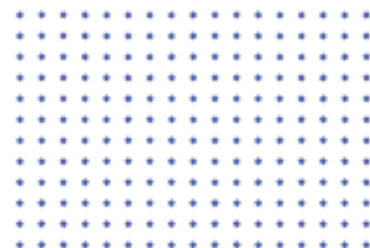
## STAR RESEARCHER



نہ تو زمیں کے لیے ہے نہ آسماں کے لیے  
جہاں ہے تیرے لیے ، تو نہیں جہاں کے لیے

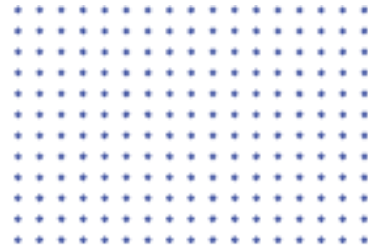
بال جبریل  
علامہ اقبال شاعری

# STAR RESEARCHER AT MEDICAL COLLEGE HITEC-IMS



Star Researchers	Citations/H-index
Prof. Dr. Farhat Abbas	830/13
Prof. Dr. Wajiha MahJabeen	238/07
Prof. Dr. Humaira Zafar	133/06
Prof. Dr. Shahid Rauf	83/06
Dr. Zubia	105/5
Dr. Sabahat Rehman	70/04

# STAR RESEARCHER AT DENTAL COLLEGE HITEC-IMS



Top Researchers – Citations & H Index		
1.	Prof. Dr Sadaf Mumtaz	548/13
2.	Dr Shahreen Zahid Khan	168/6
3.	Prof. Dr. Beenish Qureshi	82
4.	Prof. Dr Irfan Shah	133/4
5.	Prof. Dr Ayesha Haque	109/4
6.	Dr. Amna Riaz	56/4

# SECTION VII

## INTERVIEW FROM RESEARCH SCHOLARS



کوئی قابل ہو تو ہم شان کئی دیتے ہیں  
ڈھونڈنے والوں کو دنیا بھی نسی دیتے ہیں

# PROFESSOR DR. ASMA HAFEEZ

Head Of Department & Associate Dean Basic Sciences  
Anatomy  
MEDICAL COLLEGE HITEC-IMS



## Introduce yourself in terms of research background

I am Prof. Asma Hafeez (FCPS (Anatomy), MHPE), HOD Anatomy and Associate Dean Basic Sciences HITEC-IMS, Taxila. I had my first real exposure to research during my FCPS training, and have enjoyed indulging in it ever since with projects encompassing both quantitative and qualitative designs. To date I have 13 published original articles under my belt, and currently working on three more.

## By whom are you inspired in research?

Late Prof. Muhammad Yunus Khan, Prof. Emeritus of Anatomy, is my role model not only as a researcher, but a human being, a teacher and a mentor. I had the good fortune of being trained under his supervision for FCPS in Anatomy. His dedication and integrity towards Research in general, and Anatomy in particular are the most important virtues among many, which not only made him a source of inspiration for numerous like me, but also a cornerstone of Anatomy fraternity all over.

## What are your thoughts about research potential and future of research in Pakistan?

Pakistan is a land of fertile minds, though as a nation, we have not been capitalizing at all that we are endowed with. Like all other fields, the potential for research also remains under tapped, and the research projects are usually undertaken half-heartedly just to fulfill the essential criteria for career growth through promotions. This tubular vision, and non-patronizing attitude of the policy makers and relevant quarters have never let a research culture to flourish here. However, a recognition of importance of research is gaining foothold rapidly. It is now being realized that quality research is call of the day not only in regards to evidence based practice, but for evolving healthcare trends befitting the local context. The high-quality and honest research is the only pathway which would lead the healthcare community to keep abreast the global trends and to get the international recognition they deserve due to sheer

dedication and hard work which is their hallmark. I see a bright future of research in Pakistan and foresee it transforming into a leadership role.

## What guidance do you want to provide for a good quality research?

1. My first piece of advice; never snub questions arising in your minds, rather nurture them. Every question deserves answer.
2. My second piece of advice; equip yourself, read published research, welcome ideas hungrily, empower yourself with capabilities to conduct a good quality research.
3. My third piece of advice is about the honest conduct of research and authorship. Research is sacred and should not be lied about. Never try to prove a hypothesis by fudging data. An un-proven hypothesis is also a good and legitimate research, as it disproves an idea statistically. Likewise, authorship should be dealt with as an unadulterated concept. Every author should be aware of, and completely accountable for each word written. Guest and reciprocal authorship should be vehemently discouraged in order to nurture an environment conducive for quality and pure research.
4. And finally, however, small a fact unearthed seems on the face value, it is precious and never small in effect. It is the moral obligation of every researcher to share the results publicly. Hence, whatever you find, publish it and own it.

## What do you think about latest research trends nationally and internationally?

The research trends at national level are emerging well, but still far behind the international research. However, in my view, we are on the right path and gaining speed. We should all continue working hard to empower the youth to identify their prospective role in international arena and continue their spirited journey towards that.

# PROFESSOR DR. BEENISH QURESHI

**Head of Department  
Operative Dentistry  
DENTAL COLLEGE HITEC-IMS**



## **Introduce yourself in terms of research background.**

I am Prof. Dr. Beenish Qureshi (FCPS Operative Dentistry) HOD of Operative Department & Dental College HITEC-IMS. I have multiple Publications and I constantly engage in research projects.

I firmly believe that for dentistry to remain viable and contemporary, the creation of new knowledge, not simply the consumption of existing knowledge, is an integral component of dental education and continued clinical practice and this can only happen through research. My research interest is more clinical based and I want to provide methods which will be beneficial to the public in terms of prevention, diagnosis, treatment of diseases and especially on health care programs policy

## **Who do you aspire in research?**

I aspire Dr. Stephen Cohen, M.A., D.D.S., F.A.C.D., F.I.C.D, he is a Diplomate of the American Board of Endodontics. He lectures worldwide on endodontics and is the senior editor for all nine editions of the definitive endodontics textbook. Dr. Cohen has authored and co-authored numerous papers for the most significant journals. His textbooks are part of curriculum world-wide. The information provided is always up to date and evidence based.

## **What are your thoughts about research potential and future of research in Pakistan?**

The significance of research has increasingly been identified in the dental academia. In past few years research in dental field has improved remarkably. In Pakistan, although research studies are being undertaken in increasing numbers and papers are being published but this is more of individuals' efforts. At institutional level, a significant room for improvement is certainly there. It's high time that our dental academia plays their part in creating capacity building of next generation of dental scientists in the country.

## **What guidance do you want to provide for good quality research?**

Quality research tends to come from different paradigmatic stance. Publishing quality research paper demands distinctive and out-of-the-ordinary criteria for evaluating. I would give following advice:

1. A good research question is necessary in regards that it details exactly what a researcher wants to learn and defines a study's scope. By formulating a good research question, researchers can ensure that they stay on track during their study.
2. Choosing an appropriate research methodology helps ensure that researchers can collect relevant data and use the right data analysis methods. The findings of a good research study are based on empirical data collected from a sample representative of the population.
3. More importantly, good research is ethical and transparent. Transparency is crucial in ensuring that a research study is replicable and reproducible.
4. Moreover, the work must be visible, so Improving digital footprint also helps.

## **What do you think about latest research trends nationally and internationally?**

The main focus has always been improving patient care and the overall patient experience—including comfort, accessibility, affordability, and advanced treatments. In addition, there are a lot of technological developments making their way into the dental field. More possible applications are coming to light like 3D technology advances, with general dentistry, implantology, and prosthodontics all standing to benefit. Like 3D printing, laser dentistry is also one of the biggest trends in dentistry.



# SECTION- VIII

## RESEARCH GRANTS & OPPORTUNITIES



Membership Conferences Network Learn & Develop

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Home - Services - R & D

### RESEARCH GRANT PROGRAMS

RESEARCH & INNOVATION WING

### PERIDOT RESEARCH PROGRAM

[Call of Peridot 2022 is live now. Applications can be submitted via online portal \[research.hec.gov.pk\]\(https://research.hec.gov.pk\).](#)

**Erasmus+ funding programme**

## SECTION-IX CONCLUSION

تو لووح شب پہ اُجالے کی اک لکیر تو کھینچ

*Do what you can to end the dark*

خود آفتاب ترے ساتھ ساتھ چل دے گا

*The sun will help you to  
light up the world*