HITEC

Institute of Medical Sciences Taxila

RESEARCH YEAR BOOK 2025

Table of Content

Editorial Board	**1**
Message from Principal Medical College HITEC-IMS	2
Message from Principal Dental College HITEC-IMS	3
Research at HITEC-IMS	4
Message from Research Cell Medical College	5
Message from Research Cell Dental College	6
Section 01 Research Publications	07--30
Section 02 Workshops	31-43
Section 03 Seminars and Conferences	44-63
Section 04 Journal Club Meetings	64-74
Section 05 Interest Groups	75-77
Section 5-A	78-81
Section 5-B	82-83
Section 5-C	84
Section 5-D	85-99
Section 06	100-102
Section 07	103-106

Editorial Board

Dr Maleeha Zafar

Dr Amna Riaz

With great pride and a profound sense of achievement, the editorial board presents the fourth edition of the yearbook, a testament to our unwavering dedication to nurturing and showcasing academic and research excellence within our institution.

Over the years, the research yearbook has transformed into an inspiring chronicle of the extraordinary endeavors undertaken by our faculty and students. It embodies the spirit of inquiry, innovation, and devotion that defines our academic community. This year's edition is no exception. Within its pages, you will discover a diverse array of research projects, publications, and initiatives that not only reflect the depth of expertise within our institution but also spotlight our collective contributions to advancing knowledge and addressing real-world challenges.

As we look ahead, let us carry forward this momentum, striving for greater heights in research and collaboration. The research yearbook is not merely a record of past achievements; it is a beacon guiding us toward a future of even greater accomplishments. Let it remind us of the transformative power of education and research, and our shared responsibility to contribute meaningfully to the world.

We invite you to explore the research yearbook 2025 and celebrate the remarkable work showcased within.

Chief Editor
Research Yearbook 2025
Dr Amna Riaz (HOD Peadeatric Dentistry)
Dr Maleeha Zafar (Associate Professor Anatomy)

ASSOCIATE EDITORS

- Dr Sidra Jabeen
- Dr Ayesha Nayazi
- Dr Arfa
- Dr Azka Haroon
- Dr Fatima
- Dr Rubace
- Mr Muzamal Jamil

Message From Principal

Medical College, HITEC–IMS

The Yearly Research Book 2025 of HITEC Institute of Medical Sciences reflects the steady growth of our research culture and our continued commitment to academic excellence.

The year 2025 has been marked by significant scholarly achievements. Our faculty published a total of 44 research articles, of which 17 were in collaboration with faculty from other institutes, demonstrating our expanding academic partnerships and research outreach.

In addition to research outputs, this book also documents departmental journal clubs and the number of Institutional Review Board (IRB) meetings conducted at HITEC-IMS, highlighting our strong emphasis on ethical research practices, academic discourse, and continuous professional development.

A number of research workshops and training sessions were facilitated by our own faculty, reflecting our growing in-house expertise. In parallel, external experts were invited to conduct specialized research workshops, enriching our academic environment through diverse perspectives and advanced skill-building.

The successful organization of the 1st International Research Conference at HITEC-IMS further strengthened our platform for knowledge sharing, collaboration, and innovation.

I sincerely appreciate the dedication and hard work of our faculty members, researchers, and organizing teams whose efforts have made these accomplishments possible. May this Yearly Research Book serve as both a record of achievement and a source of motivation for future scholarly endeavors.

I encourage all faculty members to continue pursuing high-quality research, fostering collaborations, and contributing to the advancement of medical sciences.

Message From Principal

Dental College, HITEC–IMS

Research forms the cornerstone of academic excellence and is fundamental to the advancement of medical and dental sciences. Through systematic inquiry, critical analysis, and innovation, research contributes significantly to improving human health, clinical practice, and overall wellbeing.

The Research Yearbook 2025 presents a comprehensive overview of the scholarly activities and research output of the Medical College and Dental College, HITEC-IMS. It reflects the sustained efforts and commitment of our faculty members and students toward basic, clinical, and translational research. The growing breadth and quality of research showcased in this yearbook are a testament to the vibrant research culture fostered within the institution.

I extend my sincere appreciation to the Editorial Board for their diligence and perseverance in successfully publishing this yearbook, marking yet another milestone in our ongoing academic journey.

I encourage readers to explore the pages of this yearbook to gain insight into the diverse research endeavors undertaken at HITEC-IMS. This compilation not only highlights our achievements but also reinforces our commitment to excellence, innovation, and continuous growth in research.

Research at Hitec–IMS Medical and Dental College

At Hitec-IMS research is more than just an academic endeavour; it is a driving force that shapes our institution's commitment to innovation and excellence. Our faculty consistently engages in diverse and impactful research projects, contributing to the advancement of medical and dental sciences. Their dedication to scholarly inquiry not only enhances their own expertise but also serves as an inspiration for our students, fostering a vibrant culture of learning and discovery.

This year's edition of the Research Yearbook holds a special significance as it highlights the main event related to research conducted for the very first time the First International Reaerch Conference. In which the renowned researcher from international and national level participated. The achievement of this milestone is equally contributed by our students too. Their inclusion underscores the growing emphasis on nurturing curiosity, critical thinking, and academic rigor among the next generation of healthcare professionals. These budding researchers, guided by their mentors, have embarked on a journey of exploration that is both challenging and rewarding.

The Students' Research Society (SRS) has been instrumental in cultivating this culture of inquiry. Through their active involvement in collaborative research projects, the SRS has created opportunities for students to engage in meaningful and interdisciplinary studies. These initiatives not only strengthen their academic foundation but also prepare them to address complex real-world problems with innovative solutions.

As we celebrate the achievements documented in this year's Research Yearbook, we also reaffirm our commitment to fostering an environment where research thrives. Together, faculty and students are shaping the future of healthcare by pushing the boundaries of knowledge and making significant contributions to science and society.

Message From Research Cell Incharge Medical College HITEC–IMS

Prof Dr Wajiha Mahjabeen

Research thrives on curiosity, mentorship, and collective effort. The Yearly Research Book 2025 reflects this evolving spirit at HITEC Institute of Medical Sciences and highlights the steady strengthening of our research culture.

Over the past year, our faculty and students have shown growing confidence in transforming ideas into meaningful scholarly work. The expansion of collaborations and the continued focus on ethical oversight, critical inquiry, and academic dialogue point to a maturing research environment grounded in relevance and responsibility.

Capacity building remained central to our mission. Ongoing workshops and training initiatives, both in-house and with external expertise, played a key role in our academic development. These efforts contributed to enhanced analytical skills, stronger research competence, and sustained professional growth across our educational community.

I extend my sincere appreciation to all faculty members, students, and organizing teams whose dedication and teamwork made these achievements possible. I am also deeply grateful to the senior management for their unwavering support, guidance, and vision, which continue to provide a strong foundation for our research endeavors.

As we look ahead, I encourage our academic community to pursue bold questions, deepen collaborations, and continue to build a research culture that advances the medical sciences with integrity and purpose.

Message From Research Cell Incharge Dental College HITEC–IMS

Dr Maria Rabbani

Research is more than experiments, statistics, or publications it begins with a moment of curiosity. It is the foundation upon which innovation is built, transforming questions into knowledge and knowledge into progress.

At HITEC-IMS Dental College, we take pride in fostering this spirit of inquiry. Whether it arises in the clinic, during academic discussions, or within the classroom, every question holds the potential to inspire meaningful research.

This Research Yearbook is not merely a compilation of studies; it is a celebration of exploration of those who dared to ask, to test, and to learn. Each contribution reflects dedication, teamwork, and a shared commitment to advancing dental science and patient care.

As we look ahead, let us continue to uphold perseverance and integrity in every research endeavor. True progress emerges not only through innovation, but through the determination to question, refine, and improve with each step.

May this yearbook stand as a reflection of that spirit showcasing the collective effort of those who strive to transform knowledge into meaningful advancement for the field of dentistry.

Section 01
Research Publications

Research Publication

Publications At Medical College HITEC-IMS

Ser.	Title of Publication	Authors Name	Journal Name/Impact factor
1	Assessment of Mental Health and Mental Health Literacy Among Medical Students of HITEC-IMS	Dr Sidra Farooq, Dr Anwar Bibi, Dr Furqan Basim, Dr Waqas Khan, Dr Abdul Dr Rehman Sani, Dr Muhammad Shoaib Ali, Dr Aashi Ahmed	Pakistan Armed Forces Medical Journal Cite Score :0.2 SJR:0.129(Q4)
2	Gingival recession post periodontal treatment in diabetic patients with or without topical antibiotics	Dr Urooj Fatima, Dr Aemen Choudhary, Dr Shahzana Rana, DrIrum Zakria	Pakistan Armed Forces Medical Journal Cite Score :0.2 SJR:0.129(Q4)
3	Evaluating Curriculum Viability in Dental Education, a mixed method study at HITEC Institute of Medical Sciences	Dr Fatima Shaukat, Dr Rizwan Sultan, Dr Umme Ammarah Omer, Dr Irum Tassaduq, Dr Salma Ambreen, Dr Naila Zakria	Pakistan Armed Forces Medical Journal Cite Score :0.2 SJR:0.129(Q4)
4	Assessing Post Traumatic Stress Disorder (PTSD) and Evaluating Gratitude-Based Coping Strategies for Caregivers of Paediatric Cancer Patients	Dr Raima Siddiqui, Dr Nida Rafaqat, Dr Sadia Ikram, Dr Muhammad Noman Bashir, Dr Mustajab Ahmad Khan, Dr Sabbih ul Hassan,	Journal of Postgraduate Medical Institute Cite Score:0.10 SJR: 0.121(Q4)
5	Rare is here: A troublesome NG tube	Dr Ayesha Saeed	Royal College of Emergency Medicine Learning
6	Time to Analgesia and Adequacy of pain relief in patients presenting with Moderate and Severe Acute Pain in an Emergency Department in Pakistan: A Comparative Analysis with RCEM Benchmarks.	Dr Ayesha Saeed, Dr Lubna Shehzadi, Dr Hajra Bibi, Dr Bilal Ahmed Khan, Dr Kashif Khurshid	Journal of HBS Medical &Dental College.

7	MRI based Morphometric analysis of tibial Plateau in Pakistani population: A cross-sectional survey	Dr Iram Zakria, Dr Maleeha Zafar, Dr Rabia Waseem, Dr Salma Ambreen Shahab, Dr Asma Hafeez, Dr Iram Tassaduq	Pakistan Annals of Medical Sciences
8	Cardiometabolic Syndrome: The Convergence of Diabetes, Hypertension, and cardiovascular disease – A Call for Early Intervention and Multidisciplinary Management	Dr Shaheer Abdullah, Dr Azlan Shah, Dr Imran Hassan, Dr Haider Ali Aqeel, Dr Aaiza Binte Aslam, Dr Nimra Saeed, Dr Ryna Naeem	Multidisciplinary Surgical Research Annals Journal
9	Limb salvage surgery compared to amputation in bone and soft tissue tumors: a critical analysis of current evidence	Dr Rana Muhammad Sohail Afzal Khan, Dr Shaheer Abdullah, Dr Tooba Javed, Dr Muhammad Umer, Dr Umair Ishfaq, Dr Hasnat Gul	Journal of Medical and Health Sciences Review
10	The role of artificial intelligence in early detection of coronary artery disease: a narrative review	Dr Shaheer Abdullah, Dr Azwa Iftikhar, Dr Waiz Safwan, Dr Siddique Abdullah, Dr Mahnoor Javed, Dr Khansa Binte Zafar	Frontier Medical and Health Research
11	The Pattern of Hematological and Biochemical Parameters in Dengue Fever among Patients Presenting to Hit Hospital, Taxila Cantt	Dr Ayesha Javed, Dr Ummara Aslam, Dr Syed Hassan Burair Abbas, Dr Raheela Yasmin, Dr Manal Rauf, Dr Ambreen Javed, Dr Sarah Sadiq and Dr Shahid Rauf	Pakistan Journal of Health Sciences
12	Back pain among medical students and its associated risk factors.	Dr Anwar Bibi,Dr. Raima Siddiqui, Dr. Aashi Mughal, Dr Mohsin Raza, Dr Nadia Nisar	Foundation University Med Journal

13	Self-medication of Anxiolytics, Antidepressants, and Psychoactive Stimulants amongst Students of HITEC-IMS Taxila: A Cross-Sectional Study	Dr Anwar Bibi, Dr Aashi Mughal, Dr Asifa Afzal, Dr Sidra Farooq, Dr Raima Siddiqui, Dr Mohsin Raza	Pakistan Annals of Medical Sciences
14	Parental knowledge, attitude and perceived barriers to infant immunization: an epi centre based cross-sectional survey	Dr Anwar Bibi,Dr Asifa Afzal, Dr Aashi Ahmed ,Dr Sidra Farooq ,Dr Raima Siddiqui , Dr Moeed Azwar Bhatti	Fazaia Journal of Health Sciences
15	Prevalence of skin manifestations in patients with polycystic ovarian syndrome	Dr Aqsa Naheed, Dr Sundus Fatima, Noman Bashir, Dr Qurat-Ul-Ain, Fatima Assad, Dr Aqsa Naheed, Dr Somayya Siddiqa, Dr Bushra Babar	Foundation university journal of psychology
16	Prevalence And Social Factors Associated with Postpartum Depression in Urban Areas of Pakistan: Cross-Sectional Study	Dr Muhammad Moeed Azwar Bhatti, Dr Muhammad Saarim Ashraf, Dr Hafsa Bhatti, Dr Mahwash Jamil, Dr Kaniz Mukhdooma, Dr Zainab Ibrahim	Journal of Rawalpindi Medical College
17	Effectiveness of Membrane Sweeping on Successful Initiation of Labor and Subsequent Vaginal Birth in Patients with Previous One Cesarean Section	Dr Ayesha Akram, Dr Nida Khan, Dr Rukhsana Shaheen Afzal, Dr Khair Un Nisa, Dr Adeela Ameen, Dr Fehmida Shaheen	Journal of Society of Gynaecology & Obstetrics
18	A Diagnostic Challenge Presenting as Non-Resolving Pneumonia in A Young Female	Dr Khalid Mehmood Tariq, Dr M Shahid Khan, Dr Faiza Batool, Dr Kausar Malik, Dr Ali Haider	HITEC Medical and Dental Journal
19	The Experiences of Continuous Glucose Monitoring Systems in Patients of Type 1 Diabetes Mellitus; Intermittently Scanned vs Real-Time Device	Dr Alia Zubair, Dr Wajiha Mah Jabeen, Dr Shahida Mushtaq, Dr Sana Ajmal	Pakistan Annals of Medical Sciences

20	Hematological Variables (NLR, PLR, MLR, MPR, and RPR) as Predictive Markers for Glucose Levels in Patients of Type 2 Diabetes Mellitus	Dr Alia Zubair, DrShahida Mushtaq, Dr Hasan Burair, Dr Ambreen Zafar, Dr Nazia Siddiqui, Dr Sabahat Rehman, Dr Farhat Abbass Bhatti	Annals of PIMS-Shaheed Zulfiqar Ali Bhutto Medical University
21	Burdens and Benefits of Continuous Glucose Monitoring Use in Patients of Type 1 Diabetes Mellitus	Dr Alia Zubair Dr Shahida Mushtaq, Sadia Israr, Dr Zuha Ali, Dr Shumaila Najeeb, Dr Sana Ajmal, Dr Farhat Abbas Bhatti	Annals of PIMS-Shaheed Zulfiqar Ali Bhutto Medical University
22	Prevalence of Gastro-Esophageal Reflux Disease and its Associated Risk Factors Among Medical Students of HITEC-IMS	Dr Narjis Zahra, Dr Zoya Nawazish, Dr Raja Younis, Dr Muhammad Abbas, Dr Osama Hamid, Dr Wajiha Mahjabeen	Journal of HBS Medical & Dental College.

Collaborative Publications

Ser	Title of Publication	Authors name	Journal/IF, SJR	Co-authors & name of institutes
1	Therapeutic potential of Chemogenic Iron oxide Nanoparticles, its antioxidant and anti-Inflammatory effects with reduction of ankle joint swelling in BALB/c mice	Prof Hassan Burair Abbas HITEC-IMS	Journal of King Saud University Science/IF-3.6 SJR:0.662 (Q1)	**Dr. Mubin Mustafa Kiyani** Shifa College of Medical Technology, Shifa Tameer-e-Millat University, Islamabad **Dr. Sarah Sadiq** CMH Kharian Medical College, Kharian Cantt, **Dr.Maria Sarfraz** Rawal Institute of Health Sciences, Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU), Islamabad **Dr.Chanda Javed** Shifa College of Medical Technology, Shifa Tameer-e-Millat University, Islamabad **Maisra Azhar Butt** Department of Bioinformatics and Biotechnology, International Islamic University, Islamabad **Hamza Rehman** Department of Bioinformatics and Biotechnology, International Islamic University, Islamabad **Syed Ali Imran Bokhari** Department of Bioinformatics and Biotechnology, International Islamic University, Islamabad
2	Psilocybin's neuroendocrine modulation of hypothalamic-pituitary-adrenal (hpa) axis in major depressive disorder: a systematic review and meta-analysis	Dr Mehvish Ashfaq HITEC-IMS	TPM – Testing, Psychometrics, Methodology in Applied Psychology Cite score 1.4-2.0 SJR: 0.372 (Q3)	**Dr Mahvash Khan**, Department of physiology, Akhtar Saeed Medical College Rawalpindi **Dr Muhammed Omar Malik** Department of Physiology, Khyber Medical University Peshawar **Dr Ayyaz Ahmed, Dr Nimra Farid** Department Of Physiology, Mohi-uddin Islamic Medical College MIRPUR, AJK **Dr Bushra Riaz** Department Of Physiology, School OF Dentistry Shaheed Zulfiqar Ali Bhutto Medical University Islamabad **Muhammad Ismail** Botanical Sciences Division, Pakistan Museum Of Natural History, Garden Avenue Shakarparian, Islamabad
3	A Participatory Approach to Develop Ethical Guidelines for Generative Artificial Intelligence	Dr Fatima Shaukat, Dr Irum Tassaduq, Dr Salma Ambreen HITEC-IMS	Pakistan Armed Forces Medical Journal Cite Score :0.2 SJR:0.129(Q4)	**Dr Zainab Kamal, Dr Rehan Ahmed Khan, Dr Madiha Sajjad** Riphah International University Rawalpindi Pakistan

4	Evaluating Curriculum Viability in Dental Education, a mixed method study at HITEC Institute of Medical Sciences	Dr Fatima Shaukat, Dr Irum Tassaduq, Dr Salma Ambreen, Dr Naila Zakria HITEC-IMS	Pakistan Armed Forces Medical Journal Cite Score :0.2 SJR:0.129 (Q4)	**Dr Rizwan Sultan,** **Dr Umme Ammarah Omer** Department of Dental Education, Army Medical College/National University of Medical Sciences (NUMS) Rawalpindi Pakistan
5	Comparison of low and high dosage regime of oxytocin for uterine contraction in elective caesarean sections performed under spinal anaesthesia	Dr Muhammad Fawaz Amjad HITEC-IMS	Pakistan Armed Forces Medical Journal Cite Score :0.2 SJR:0.129 (Q4)	**Syed Ali Mazhar Rizvi ,Dr Azmat Riaz , Dr Tariq Mehmood Malik** Department of Anaesthesia, Pak Emirates Military Hospital/National University of Medical Sciences (NUMS),**Dr Fatima Sharif Khan Dr Umairah Yaqub,** Department of Gynaecology /Obstetrics, Pak Emirates Military Hospital/National University of Medical Sciences (NUMS),
6	The role of lifestyle and dietary changes in Preventing urinary tract infection recurrence	Dr Ahmed Sajjad HITEC-IMS	Journal of population therapeutics & clinical pharmacology SJR: 0.277(Q3)	**Ghulam Mujtaba** Ghulam Muhammad Mahar Medical College, Civil Hospital Sukkur, **Yassar Hussain Patujo** Assistant Professor Urology Chandka Medical College, **Saadat Hassan Hashmi** Chief Consultant Urologist, Benazir Bhutto Hospital, **Ayaz Ahmad** Khan Registrar Urology, University Hospital Limerick, **Muhammad Ameen** 6Senior Registrar Urology, Benazir Bhutto Hospital6
7	Exploring the controversial link between artificial sweeteners and cancer risk: a narrative review	Dr.Tehniat Bashir HITEC-IMS	Journal of population therapeutics & clinical pharmacology SJR: 0.277(Q3)	**Dr.Hafsa Niazi, Dr.Nadia Nahal, Dr. HuzairaZainab** MBBS, Intern at BMY Health **Dr.Syed Hassnain Zafar Bukhari** Clinical Development Fellow (King's Mill Hospital), **Dr.Aousaf Ahmed** Ph.D, The Islamia UniversityofBahawalpur

8	Evaluating The Efficacy of Early Multidisciplinary Intervention in Children with Neurodevelopmental Disorders	Ms. Fatima Assad HITEC-IMS	Journal of Population Therapeutics and Clinical Pharmacology SJR: 0.277(Q3)	**Dr Sundus Fatima** Psychiatrist and Head of Department, Berlin Medical and Neurological Rehabilitation, Abudhabi, UAE **Dr Farinaz Aghajannashtaei** Specialist Psychiatry, Berlin Medical and Neurological Rehabilitation, Abudhabi, UAE **Dr Asad Minhas** Locum Consultant Psychiatrist, Swansea Bay University Health Board UK **Dr Muhammad Arshad Malik** Postgraduate Trainee Haematology, Rawalpindi Medical University, Rawalpindi, **Dr Abdul Ghafoor** Consultant Psychiatrist, Benazir Bhutto Hospital, Pakistan
9	Anthropometric Insights. Unravelling the Nexus between Thumb Length and OVD - A Comparative Perspective	Dr Muhammad Hammad HITEC-IMS	Annals of Punjab Medical College	**Dr Tufail Ahmed Soomro**, Chandka Medical College, Larkana Pakistan **Dr Farooq Ahmed Abro** Kamran Arzoo, **Dr Mudaser Hussain Abbasi, & Dr Zahid Masood** Rai Medical College, Sargodha Pakistan.
10	Investigating Motorcycle Accident Risk Factors among Educated Riders: Associations with Driver Behaviour, Road Conditions, and Vehicle Safety Concerns	Dr Muhammad Hammad, Dr Muhammad Asif Shahab HITEC-IMS	Pakistan journal of health sciences.	**Dr Sarba Khalid** Nishter Medical University, Multan, **Dr Roman Ashraf** Lahore Medical and Dental College, Lahore. **Dr Durdana Zafar.** Rahbar Medical and Dental College, Lahore. **Dr Zulfiqar Ali Buzdar** Dera Ghazi Khan Medical College, Dera Ghazi Khan
11	An Effort to Ascertain Blood Group Types from the Finger Print Patterns and Gender	Dr Muhammad Hammad HITEC-IMS	Bannu Medical college Journal of medical sciences	**Dr Zulfiqar Ali Buzdar** Sahara Medical College, **Dr Tasneem Murad**, Islamic International Medical College Islamabad **Dr Mashooque Ali** Army Medical College Rawalpindi,

12	Comparison of chlorhexidine alcohol versus povidone iodine alcohol for preoperative skin preparation in cesarean section to reduce the rate of surgical site infection.	Dr Ayesha Akram HITEC-IMS	The Professional Medical Journal	**Dr Tooba Zahid** Fauji Foundation Hospital, Rawalpindi/FUMC, Islamabad. **Dr Samina Irshad** Fauji Foundation Hospital, Rawalpindi/FUMC, Islamabad. **Dr Benish Ishaq** Al-Falah Hospital, Riyadh, KSA. **Dr Ambreen Fatima** Fauji Foundation Hospital, Rawalpindi/FUMC, Islamabad. **Dr Shermeen Kousar** Fauji Foundation Hospital, Rawalpindi/FUMC, Islamabad.
13	Frequency Of Feto-Maternal Outcomes In Prelabour Rupture Of Membranes	Dr Ayesha Akram HITEC-IMS	Journal of Rawalpindi Medical College	**Durre Shahwar; Nadia Ahmed Bokhari; Ayesha Akram; Samina Irshad; Ambreen Fatima; Asia Raza** Department of gynae/Obstetrics Fauji Foundation Hospital
14	Association of Subclinical Hypothyroidism with Bad Obstetric History: A Review	Dr. Tanzila, HITEC-IMS	Pakistan Journal of Medical & Cardiological Review	**Dr. Raima Nasir** SPR at Women and Children MTI Bannu **Dr. Uzlifat Khattak** Women Medical Officer (WMO) THQ Hospital BD Shah District Karak.
15	Analyzing Risk Factors Associated with Post Myocardial Infarction Complications: A Retrospective Analysis	Dr Muhammad Shahid Khan HITEC-IMS	Pakistan Journal of Health Sciences	**Dr Tayyeb Muhammad** Department of Cardiology, Hayatabad Medical Complex, Peshawar, Pakistan **Dr Muhammad Ejaz** Department of Cardiology, District Headquarters Hospital, Nowshera, Pakistan **Dr Shahroon Zahid** Department of Medicine, Pak Emirates Military Hospital, Rawalpindi, Pakistan **Dr Sohail Khan** Department of Cardiology, Mardan Medical Complex, Mardan, Pakistan **Dr Ahmed Ali** Department of Cardiology, District Headquarters Hospital, Timergara, Pakistan

16	The impact of neoadjuvant chemotherapy on surgical outcomes in breast cancer: Assessing how Preoperative systemic therapy influences tumor resectability, surgical decision-making, and the potential for breast-conserving surgery	Prof Asma Khan HITEC-IMS	Health Affairs	**Babar Ali Raza** UHS, Lahore , **Sheikh Qais Falah** Professor of Surgery, Surgical Department Dera Ismail Khan , Mufti Mehmood Memorial Teaching Hospital (MMMTH), , **Mobeen Ali, Umar Khan** PIMS, **Hadi Raza** UHS, Lahore
17	Age, Gender and Genetic Code: Exploring imatinib Mesylate therapeutic response with the role of rs683369 in chronic myeloid leukemia	Dr Asma Khan HITEC-IMS	The Professional Medical Journal	**Dr Zabiullah, Dr Faizan Rasheed**, MBBS, Research Associate, Rawalpindi Medical University, Rawalpindi. **Dr Zarafshan Bader,** Associate Professor Pharmacology & Therapeutics, Fauji Foundation Medical College. **Dr Imrana Aamir** Professor Pharmacology & Therapeutics, Fazaia Medical College, Islamabad.
18	The role of pharmacogenomics in Advancing Personalised Medicine: Implications for Drug Efficacy Safety and clinical practice Integration	Bushra Taskeen Pharmacist HITEC-IMS	Indus journal of bioscience research	**Saleem Asghar**, Faculty of Pharmacy, University of Sindh, Jamshoro **Muhammad Kashif Shahzad Virk** Department of Specialized Healthcare & Medical Education, Government of the Punjab, Lahore **Maham Fatima** Nishtar Medical University, Multan Hasnain Liaquat University of Medical and Health Sciences (LUMHS), Jamshoro **Abali Wandala** Universidad Adventista del Plata, Entre-Ríos, Paraná, Argentina

19	Molecular Characterization and Histopathological Correlation of Antibiotic Resistance Genes in Clinical Isolates of MRSA in Pakistani Hospitals	Dr Sughra Kanwal HITEC-IMS	Journal of neonatal surgery	**Dr ZubedaIrshad,** Pathology Department, Burns and Plastic Surgery Centre, Hayatabad **Dr Azeem Gohar Khan,** Principal,GoharInstituteofMedicalSciences, Havelian, District Abbottabad, **Tabbassum Imran, Microbiology Pathology Department**, SaiduMedicalCollegeSwat/Hospital, Swat, **Sabokhat Sadikova Department of Chemistry**, Urgench State University, 220100, Urgench, Uzbekistan **Abdus Saboor** Associate Professor, Department of Oral Pathology, Saidu College of Dentistry,
20	Innovative Approaches in Pediatric Psychiatry: Evaluating the Effectiveness of Telepsychiatry in Children and Adolescents	Dr Mehwish Sultan HITEC-IMS	Annals of Pakistan Institute of Medical Sciences	**Dr. Izaz Jamal** Assistant Professor of Psychiatry, Mardan Medical Complex, Mardan **Dr Rabeea-leasr**, Senior Registrar, Psychiatry, Women Medical College, Abbottabad. **Dr Muhammad Kashif**, Associate Professor of Psychiatry, Rawalpindi Medical University, Rawalpindi. **Dr Marina Hidayat**, Demonstrator, Peshawar Medical College.
21	Advancement in immunotherapeutics & targeted approaches for bladder tumor	Dr Ahmed Sajjad HITEC-IMS	International journal of pharmacy research and technology	**Dr Muhammad Ameen** Senior Registrar Urology, Benazir Bhutto Hospital / Rawalpindi Medical University (RMU) Rawalpindi Pakistan**.** **Dr Urooj Niaz** House officer, Pakistan Institute of Medical Sciences Islamabad Pakistan. **Dr Saadat Hassan Hashmi Chief** Consultant Urologist, Benazir Bhutto Hospital / Rawalpindi Medical University (RMU) Rawalpindi Pakistan. **Dr Yassar Hussain Patujo** Assistant Professor Urology, Chandka Medical College/ Shaheed Mohtarma Benazir Bhutto Medical University Larkana Pakistan. **Dr Ghulam Mujtaba** Consultant Urologist, Ghulam Muhammad Mahar Medical College, Civil Hospital Sukkur Pakistan.

22	Prospective cohort study on effectiveness of ESWL Vs URS in treatment of proximal renal stone	Dr Ahmed Sajjad HITEC-IMS	International journal of pharmacy research and technology	**Dr Zeeshan Shaukat** Specialty Doctor, Urology, Doncaster and Bassetlaw Teaching Hospitals, NHS Foundation Trust, **Dr Khawar Ali** Consultant Urology, Almanzoor Hospital, Mian Channu, Khanewa, **Dr Muhammad Rashid** Senior Registrar, Urology, University College of Medicine and Dentistry, Lahore **Dr Muhammad Nadeem Shafique** Associate Professor of Urology, Head of Department of Urology and Renal Transplant, **Dr Imran Idrees** Teaching Hospital, Sialkot Medical College [4], **Dr Muhammad Haroon Ghous** Professor of Urology, University College of Medicine, The University of Lahore

Publications At Dental College HITEC-IMS

S.no.	Title of Publication	Authors Name	Journal Name/Impact factor
1	1. Evaluation of apical debris extrusion of three NI-TI rotary file systems: an in vitro study. 2. Evaluation of centering ability of three Nickel Titanium rotary files for root canal preparation: an invitro cone beam computed tomography assessment.	Dr. Amna Riaz	Journal of Population Therapeutics & Clinical Pharmacology/5 African Journal of biological sciences/1.08
2	Comparison of epoxy resin and rigid polyurethane foam as a bone substitute to study implant biomechanics.	Dr. Nida Zehra Bano	Cureus /1.3
3	Periodontal and caries status in relation to oral health knowledge, attitude and behavior of medical and dental students in Taxila.	Dr. Maria Rabbani	Cureus /1.3
4	Empathy scores and curriculum integration at two different levels: a cross-sectional study of final-year medical and dental students.	Dr. Amna Faisal	Cureus /1.3
5	An ethnographic and appreciative inquiry into periodontal chairside teaching.	Dr. Syed Shahan Haider	African Journal of biological sciences/1.08
6	Beyond words: Facets of non-verbal communication used in undergraduate medical and dental education classroom.	Dr. Sara Khan	Khyber Medical University Journal/0.2

7	1. A participatory approach to develop ethical guidelines for generative Artificial Intelligence. 2. Evaluating curriculum viability in dental education: A mixed-methods study at HITEC Institute of Medical Sciences. 3. Comparative analysis of integrated OSPE versus conventional OSPE in assessing first-year bds students' competence.	Dr. Fatima Rizwan	Pak Armed Forces Med J/0.12 Pakistan Journal of Medicine and Dentistry
8	Anti-inflammatory effect of moringa oleifera and vitamin d on articular cartilage degradation in arthritic rat model: A comparative study.	Dr. Ayesha Shahid	Pakistan Armed Forces Medical Journal/0.12
9	Gingival recession post periodontal treatment in diabetic patients with or without topical antibiotics.	Dr. Aeman Chaudary	Pak Armed Forces Med J/0.12
10	Effect of TOTM on renal functions in Sprague Dawley rats.	Dr. Ayesha Zafar	-
11	Stepping forward: Evaluating the impact of gait training on post-stroke patients' energy cost of walking: A pre-test post-test analysis.	Dr. Rabia Masood	Pakistan BioMedical J
12	Open vs closed surgical exposure technique for impacted maxillary canine- surgical and orthodontics perspective.	Dr. Maimoona Siddiq	Foundation University Journal of Dentistry

Collaborative Projects

Sr.	Title of Publication	Authors name	Journal*	Co-authors & name of institutes
1	Comparison of deferasirox and deferoxamine as iron chelators in multi-transfused pediatric patients with beta thalassemia major.	Dr. Ayesha Zafar Dental HITEC-IMS	Pakistan Journal of Medical & Cardiological Review	1. **Dr Sohail Ashraf** Professor of Paediatrics, POF Hospital Wah Cantt Author 2. **Dr Saba Mushtaq** Associate Professor Paediatrics, POF Hospital/ Wah Medical College Author 3. **Dr Usman Hafeez** Postgraduate Resident Paediatrics, Sir Ganga ram Hospital, Lahore Author 4. **Dr Sundus Khan** Assistant Professor Paediatrics Department, POF Hospital Wah Cantt Author
2	1. Effect of incorporation of bioactive agents in dentin bonding agent on bond strength: A systematic review. 2. Impact of capping agent incorporation on PH stability of silver diamine fluoride: An in vitro analysis.	Dr. Nida Zehra Bano Dental HITEC-IMS	i.Pakistan Journal of Medicine and Dentistry ii. Journal of Life & Science	1. **Usama WasiUllah, Muhammad Omar Niaz, Mehmood Asghar Bhatti** Department of Science of Dental Materials, Army Medical College, National University of Medical Sciences, Rawalpindi, Pakistan. 2. **Mehmood Asghar Bhatti,** Department of Basic Dental Sciences Army Medical College, Rawalpindi, Pakistan **Ros Anita Omar*,** Department of Restorative Dentistry/Chemistry4/ Centre for Foundation Studies in Science5 University of Malaya, Kuala Lumpur, Malaysia. **Adrian UJin Yap, Rosiyah Yahya, Ahmad Danial Azzahari,** Department of Dentistry Ng Teng Fong General Hospital and Faculty of Dentistry National University Health System, Singapore

3	1. Fabrication and evaluation of antimicrobial efficacy of root canal sealer using moringa oleifera extract. 2. Evaluation of physical properties of moringa based root canal sealer. An in-vitro study.	Dr. Nausheen Ashraf Dental HITEC-IMS	i.Journal of Islamabad Medical & Dental College	1. **Bakhtawar Yaqoob, Sadaf Humayoun,** Rawal Institute of Health Sciences, Rawalpindi **Faisal Moeen, Qurat ul Ain,** Islamic International Dental Hospital, Islamabad **Maria Khalid,** Health Services Academy, Islamabad 2. **Bakhtawar Yaqoob1, Sadaf Humayoun2, Amber Khan3, Aqsa Akhtar4,**1,2Department of Dental Materials, Rawal Institute of Health Sciences, Islamabad; 3Department of Forensic Dentistry, Abbottabad International Medical College, Abbottabad; 4Department of Prosthodontic, Rawal Institute of Health Sciences Islamabad.
4	Gingival recession post periodontal treatment in diabetic patients with or without topical antibiotics.	Dr. Shahzana Rana Dental HITEC-IMS	Pakistan Armed Forces Medical Journal	1. **Aeman Choudhary** Department of Pharmacology, Dental College HITEC-IMS Taxila, Rawalpindi Pakistan 2. **Ambreen Gul** Department of Biochemistry, Dental College HITEC-IMS Taxila, Rawalpindi Pakistan 3. **Naila Zakria** Department of Biochemistry, Dental College HITEC-IMS Taxila, Rawalpindi Pakistan 4. **Wajeeha Javed** Department of Periodontology, Dental College HITEC-IMS Taxila, Rawalpindi Pakistan 5. **Urooj Fatima** Department of Pharmacology, Dental College HITEC-IMS Taxila, Rawalpindi Pakistan

5	1. Comparative effectiveness of rivastigmine and donepezil in patients with Alzheimer's disease: A retrospective cohort study. 2. Current trends in antibiotic therapy and resistance: A comparative study of various spectrums. 3. Comparative analysis of integrated OSPE versus conventional OSPE in assessing first year BDS students competence. 4. Endodontic and extraction success with buccal infiltration using articaine and lignocaine in irreversible pulpitis.	Dr. Aeman Chaudary Dental HITEC-IMS	1. Cureus 2. Cureus 3. Pakistan Journal of Medicine and Dentistry 4. Journal of Population Therapeutics and Clinical Pharmacology	1. **Adeel Abbas Raja**, Azad Jammu Kashmir Medical College (AJKMC), Muzaffarabad, PAK, **Ammarah Amjad,** Internal Medicine, HBS (Hazrat Bari Imam Sarkar) Medical and Dental College, Rawalpindi, **Asma Atta, Maryam Atta,** Medicine, Azad Jammu Kashmir Medical College (AJKMC), Muzaffarabad, PAK 5. Endocrinology, Capital Hospital, Islamabad, PAK, **Shoukat Hussain,** Health, Abbas Institute of Medical Sciences, Muzaffarabad, PAK 2. **Maryam Atta, Asma Atta, Samreen Ameen,** Medicine, Azad Jammu and Kashmir Medical College, Muzaffarabad, PAK, **Amara Amjad**, Pharmacology, Hazrat Bari Imam Sarkar Medical and Dental College, Rawalpindi, PAK, **Shoukat Hussain**, Endocrinology, Capital Hospital, Islamabad, PAK, **Marriam Khan,** Medicine, Abbas Institute of Medical Sciences, Muzaffarabad, PAK 3. **Fatima Shaukat, Saman Mailk, Alina Qamar** Dental College, HITEC Institute of Medical Sciences, Taxila, Pakistan, **Rizwan Sultan** Medical College, HITEC Institute of Medical Sciences, Taxila, Pakistan, **Saba Farooq** Margalla Institute of Health Sciences, Rawalpindi, Pakistan. 4. **Amber Rashid,** BDS Mphil Pharmacology CHPE Assistant Professor Department of Pharmacology Foundation University Medical college (FUMC) Islamabad, **Sana Jalil Hasan,** BDS, FCPS, CHPE, C-Implantology Associate Professor Operative dentistry and Endodontics Margalla Institute of Health Sciences, Quaid –e-Azam Avenue, Gulraiz phase 3, Rawalpindi, **Syeda Rabia Rahat Geelani,** FCPS(OMFS) Assistant Professor, Oral and Maxillofacial Surgery Department, Qassim University, **Sidra Waqar,** MBBS MPhil Pharmacology Demonstrator Pharmacology, Islamic International Medical College Rawalpindi **Tayyaba Qureshi,** MBBS, MPhil Anatomy, PhD scholar, Assistant Professor, Department of Anatomy, Rawalpindi, Medical University

6	1. SLC19A1 gene polymorphism; risk factor for pre-eclampsia. 2. Considering G>A polymorphism of COMT gene (rs4680); the genetic cause of stress induced TMD in medical students: A case control study. 3. Molecular profiling of BRCA1/BRCA2 gene variants in Pakistani breast cancer patients. 4. Tongue lesions in Pakistani population, subjective awareness and association with blood groups. 5. Evaluating curriculum viability in dental education: A mixed-methods study at HITEC Institute of Medical Sciences.	Dr. Naila Zakria Dental HITEC-IMS	1. Journal of the College of Physicians and Surgeons Pakistan 2. Journal of Pakistan Medical Association 3. Journal of Pakistan Medical Association 4. Pak Armed Forces Med J 5. Pak Armed Forces Med J	1. **Iram Nasir, Amena Rahim, Muhammad Afzal, Sadaf Ayub, Zahira Bashir,** Department of Biochemistry, Islamic International Medical College, Riphah International University, Rawalpindi, Pakistan 2. **Amena Rahim, Muhammad Afzal, Bushra Ghulam,** Department of Biochemistry, Islamic International Medical College, Rawalpindi, **Zahira Bashir,** Mohi Ud Din Islamic Medical College, AJK, **Syeda Sameen Zehra Rizvi**, Dental College HITEC-IMS, Taxila, Pakistan 3. **Bushra Ghulam, Muhammad Afzal, Amena Rahim, Zahira Bashir** Department of Biochemistry, Islamic International Medical College, Rawalpindi, Pakistan, **Ahmad Abubakr** Department of Pathology, Islamic International Medical College, Rawalpindi, Pakistan 4. **Ambreen Gul, Rabbia Shabbir,** Department of Biochemistry, HITEC-IMS Taxila Pakistan **Raheela Yasmin,** Department of Dentistry, HITEC-IMS **Muhammad Naufal Nadeem, Faiqa Hassan,** Department of Oral Medicine, HITEC-IMS Taxila Pakistan. 5. **Fatima Shaukat,** Department of Dental Education, HITEC-IMS **Rizwan Sultan,** HITEC/National University of Medical Sciences (NUMS) Pakistan, **Umme Ammarah Omer,** Department of Dental Education, Army Medical College/(NUMS) Rawalpindi **Iram Tassadaq, Salma Ambreen,** Department of Medical Education, HITEC-IMS

7	Dental caries as a cause of primary hypertension among children and adolescents.	Dr. Maria Rabbani Dental HITEC-IMS	Cureus	**Azka Haroon, Ayesha Jabeen,** Oral Pathology, HITEC-Institute of Medical Sciences (HITEC-IMS) Dental College, Taxila, PAK, **Waleed Babar,** Oral Pathology, Shifa College of Dentistry, Shifa Tameer-e-Millat University, Islamabad, PAK, **Nimrah Awan,** Oral Pathology, Armed Forces Institute of Pathology, Rawalpindi, PAK, **Omama Fatima,** Dentistry, Riphah International University, Islamabad, PAK.
8	1. OCD tendencies, personality traits, and its impact on academic performance among university students. 2. Problematic smartphone use and academic procrastination among students in Pakistan. 3. Periodontal and caries status in relation to oral health knowledge, attitudes, and behavior of medical and dental students in Taxila, Pakistan. 4. PUBG game addiction, social connectedness and aggression in young adults.	Dr. Amna Faisal Dental HITEC-IMS	1. Journal of Asian Development Studies 2. Journal of Asian Development Studies 3. Cureus 4. Pakistan Journal of Humanities and Social Sciences	1. **Hafiza Zunaira** Nur International University, Lahore, **Rida Malik** Nur International University, Lahore, **Shahzaib Ali** Superior University Lahore, **Rabbia Ashraf** The Children's Hospital. Lahore. 2. **Pulwasha Anwar** Bursa Uludağ University, Bursa, Turkey, **Shumaila Munir** The Women University Multan, Multan, Pakistan, **Muhammad Owais Arif** Federal Urdu University for Arts, Science and Technology, Karachi, Pakistan, **Sayeda Iqra Geelani** Help Autism Centre, Lahore, Pakistan, **Ambreen Fatima** Riphah International University Islamabad, Lahore Campus, Pakistan, **Sania Riaz** Dar e Arqam School, Sargodha, Pakistan. 3. **Maria Rabbani, Azka Haroon**, Dental College, HITEC – IMS, Taxila, **Kinza Manzoor,** Dental Biomaterials, Islamic International Dental College, Islamabad, PAK, **Sarah Rabbani, Muhammad Kashif,** Oral Pathology, Bakhtawar Amin Medical and Dental College, Multan, PAK. 4. **Rukhsana Kausar,** Clinical Psychologist, Government College University Lahore, Pakistan, **Hina Rana,** Department of Clinical Psychology, School of Professional Psychology, University of Management and Technology Lahore, Pakistan, **Sana Nouman,** Clinical Psychologist/HOD, Fazaia College of Education for Women, Islamabad, Pakistan.

9	1. Arabinoxylan-Incorporated Poly(ε-caprolactone) nanofiber matrix promote fibroblast cells adhesion and proliferation. 2. Advanced 3D biomimetic scaffolds with bioactive glass and bone-conditioned medium for enhanced osteogenesis.	Dr. Sajida Fareed Dental HITEC-IMS	1. BioNano Science 2. Biomaterials Advances	1. **Kiran Konain,** Molecular Biology and Genetics, Institute of Basic Medical Sciences, Khyber Medical University, Peshawar, Pakistan, **Shazia Hameed, Saeed Ur Rahman,** Oral Biology, Institute of Basic Medical Sciences, Khyber Medical University, Peshawar, Pakistan, **Fozia Rehman, Faiza Sharif,** Interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS University Islamabad, Lahore Campus, Lahore, Pakistan, **Muhammad Samie,** Institute of Pharmaceutical Sciences, Khyber Medical University, Peshawar, Pakistan, **Muhammad Zaman,** Faculty of Pharmacy, University of Central Punjab, Lahore, Pakistan, **Syed Rashid Habib,** Department of Prosthetic Dental Sciences, College of Dentistry, King Saud University, Riyadh, Saudi Arabia, **Jeevithan Elango,** Department of Marine Bio pharmacology, College of Food Science and Technology, Shanghai Ocean University, Shanghai, China. 2. **Shazia Hameed, Saeed Ur Rahman,** Oral Biology, Institute of Basic Medical Sciences, Khyber Medical University, Peshawar, Pakistan, **Kiran Konain,** Molecular Biology, Institute of Basic Medical Sciences, Khyber Medical University, Peshawar, Pakistan, **Muhammad Samie,** Institute of Pharmaceutical Sciences, Khyber Medical University, Peshawar, Pakistan, Jeevithan Elango, Department of Biomaterials Engineering, Faculty of Health Sciences, UCAM- Universidad Católica San Antonio de Murcia, Guadalupe, Murcia, Spain, Syed Rashid Habib**,** Department of Prosthetic Dental Sciences, College of Dentistry, King Saud University, Riyadh, Saudi Arabia, **Kyung Mi Woo,** Department of Molecular Genetics, Dental Research Institute, School of Dentistry, Seoul National University, Seoul 08826, Republic of Korea, **Praveen R. Arany,** Oral Biology, Surgery and Biomedical Engineering, University at Buffalo, NY, USA.

10	1. Peripheral ossifying fibroma: A case series of patients reported at Islamic International Dental College and Hospital. 2. Energy costs of walking: Comparing household and community ambulators after stroke. 3. The association of trunk control and postural stability with functional ambulation in stroke patients. A longitudinal study. 4. Association of stress with academic performance affecting self-efficacy of dental undergraduate students in Pakistan.	Dr. Rabia Masood Dental HITEC-IMS	1. Khyber Medical University Journal 2. Physiotherapy Practice and Research 3. Allied Medical Research Journal 4. JOURNAL OF KHYBER COLLEGE OF DENTISTRY	1. **Maryam Nazir Kiani, Seema Shafiq, Amber Kiyani,** Department of Oral Pathology Islamic International Dental College and Hospital (IIDC), Riphah International University (RIU), Islamabad, Pakistan, **Sobia Hassan,** Department of Periodontology Islamic International Dental College and Hospital (IIDC), Riphah International University (RIU), Islamabad, Pakistan, **Nadia Zaib,** Department Oral Pathology Foundation College of Medicine and Dentistry, Foundation University, Islamabad, Pakistan 2. **Salman Farooqi,** Institute of Physical Medicine and Rehabilitation, Khyber Medical University, Peshawar, Pakistan, **Ifrah Masood,** Department of Allied Health Sciences, The Superior University, Rahim Yar Khan Campus, Pakistan, **Forhad Hossain APU,** Department of Neurosurgery, Xuanwu Hospital, Capital Medical University, Beijing, China 3. **Saima Rehman,** Khyber Medical University, Peshawar, Pakistan, **Ifrah Masood,** The Superior University, Lahore, Pakistan, **Salman Farooqi,** Khyber Medical University, Peshawar, Pakistan 4. **Afifa Ehsan,** Department of Oral Biology, Faryal Dental College, Lahore, Pakistan, **Naila Umer,** Department of Oral Pathology, Faryal Dental College, Lahore, Pakistan, **Ali Raza** University of Health Sciences, Lahore, Pakistan.

11	1. Expression of TIM-3 in transitional cell carcinoma: A comparative study of tissue and serum levels. 2. Cytomorphological changes of oral mucosal cells among smokeless tobacco users in low and middle-income country settings: New findings from Pakistan.	Dr. Saleha Saeed Dental HITEC-IMS	1. Pathology - Research and Practice 2. BMC Oral Health	1. **Farrukh Siddique, Naveed Sharif, Abdul Salam, Ayesha Qadir, Ayesha Siffat,** Institute of Pathology and Diagnostic Medicine, Khyber Medical University, Peshawar, Pakistan 2. **Sabreen Hassan,** Saidu College of Dentistry, Swat, Pakistan **Ayesha Sifat,** Khyber Medical University, Peshawar, Pakistan, **Mohammad Munib,** Swat Medical College, Swat, **Waqar U. Nisa,** Bacha Khan Dental College, Mardan, Pakistan, **Sofia Haider Durrani,** Oral Pathology Department, Sardar Begum Dental College, Gandhara University, Peshawar, Pakistan, **Abid Rahim,** Gandhara University, Peshawar, Pakistan, **Naeem Ullah,** Saidu Medical College, Swat, Pakistan, **Saima Afaq,** Institute of Public Health & Social Sciences (IPH&SS), Khyber Medical University (KMU), Peshawar, Pakistan, **Farhad Ali Khattak,** R&D Cell, Khyber College of Dentistry, Peshawar, Pakistan, **Zia Ul Haq,** School of Health & Wellbeing, University of Glasgow, Glasgow, Scotland, UK.
12	Burdens and benefits of continuous glucose monitoring use in patients of Type 1 diabetes mellitus.	Dr. Sadia Israr Dental HITEC-IMS	Annals of PIMS-Shaheed Zulfiqar Ali Bhutto Medical University	**Alia Zubair,** Professor/ HITEC-Institute of Medical Sciences, Taxila, **Wajiha Mah Jabeen,** Professor/ HITEC-Institute of Medical Sciences, Taxila, **Shahida Mushtaq,** Assistant Professor/ HITEC-Institute of Medical Sciences, Taxila, **Zuha Ali,** Lecturer/ HITEC-Institute of Medical Sciences, Taxila, **Shumaila Najeeb,** Associate Professor/ Bahria University, Islamabad, **Sana Ajmal,** Director/Meethi Zindagi, **Farhat Abbas Bhatti,** Professor/HITEC-IMS, Taxila

13	Association of awake bruxism with tooth wear and occupational stress among mechanical and non-mechanical workers.	Dr. Sameen Zehra Dental HITEC-IMS	Pakistan Journal of Medicine and Dentistry	**Fatima Tu Zahra,** Health Services Academy, **Amna Riaz,** Operative Dentistry HITEC-IMS, **Amna Nisar,** School of Dentistry, SZAMBU Islamabad. Pakistan. **Amna Khan, Naveed Ahmad,** Department of Prosthodontics HITEC-IMS
14	1. Bioactive composites in dentistry: A comparative study of tissue regeneration, biological activity, and clinical outcomes in various dental applications. 2. Development and evaluation of nano-hydroxyapatite and silica-reinforced dental composites: Enhancing mechanical strength and hydrolytic stability.	Dr. Amna Riaz Dental HITEC-IMS	1. Journal of Neonatal Surgery 2. Journal of Therapeutics & Clinical Pharmacology	1. **Amna Mehwish Ikram,** PhD Scholar, Unit of Biomaterials, School of Dental Sciences, Universiti Sains Malaysia Health Campus, Kubang Kerian, Kelantan, Malaysia, **Dasmawati Mohamad,** Assoc. Prof. Ts. Unit of Biomaterials, School of Dental Sciences, Universiti Sains Malaysia Health Campus, Kubang Kerian, Kelantan, Malaysia, **Aamir Shahzad,** Associate Professor & HOD, Dental Materials Department HBS Medical and Dental College, Islamabad, Pakistan **Rehana Kausar,** Associate Professor, Department of Community and Preventive Dentistry, Islam Dental College, Sialkot, Pakistan, **Ayousha Iqbal,** Head of Department of Dental Materials, Islamabad Medical and Dental College, Islamabad, Pakistan. 2. **Ghazal Khan,** Senior Lecturer Department of Dental Material, Women Dental College, Abbottabad, **Junaid Ahmed,** Northern Institute of Medical Sciences, Abbottabad, **Aimen Samreen Khan,** Senior Lecturer Department of Dental Materials, Islamabad Medical and Dental College, **Ayousha Iqbal,** Assistant Professor and Head of Department, Department of Dental Materials, Islamabad Medical and Dental College, **Sajid Hussain,** Assistant Professor Department of Dental Materials Sardar Begum Dental College, Gandhara University Peshawar

15	Evaluation of apical debris extrusion of three NI-TI rotary file systems: an in vitro study.	Dr. Beenish Qureshi Dental HITEC-IMS	Journal of Population Therapeutics and Clinical Pharmacology	**Amna Riaz,** Assistant Professor, FCPS Operative Dentistry and Endodontics, Dental College Hitec-IMS, Taxila, Pakistan, **Kiran Saba,** Assistant Professor, FCPS Operative Dentistry and Endodontics, IMDC, Bara Kahu, Pakistan **Ayousha Iqbal,** Assistant Professor, M. Phil Dental Materials, HBS Medical and Dental College, Islamabad, Pakistan, **Sana Jalil Hassan,** Assistant Professor, FCPS Operative Dentistry and Endodontics, Margalla Institute of Health Sciences, Rawalpindi, Pakistan, **Hufsa Siddiqui,** Demonstrator, Paediatric Dentistry, Dental College Hitec-IMS, Taxila, Pakistan
16	Pre-operative anxiety patterns in patients undergoing impacted lower third molar extraction.	Dr. Maimoona Siddiq Dental HITEC-IMS	Found Univ J Dent	**Erum Riaz,** Senior Registrar, Dental Section, Frontier Medical College, Abbottabad, Pakistan, **Sadia Paiker,** Assistant Professor, Department of Oral and Maxillofacial Surgery, Rawal Institute of Health Sciences, Rawalpindi, Pakistan, **Saeed Ullah Shah,** Assistant Professor, Department of Oral and Maxillofacial Surgery, Altamash Institute of Dental Medicine, Karachi, Pakistan, **Muhammad Umar Qayyum,** Consultant Oral and Maxillofacial Surgeon, Department of Oral and Maxillofacial Surgery, Combined Military Hospital, Gujranwala, Pakistan, **Mazhar Khan,** Senior Registrar, Department of Oral and Maxillofacial Surgery, Rawal Institute of Health Sciences, Rawalpindi, Pakistan.

Section 02

Workshops

SPSS Workshop Equips Researchers with Practical Data Analysis Skills

Data Analysis and Interpretation Using SPSS: Basics to Advanced Statistical Techniques

The Research Cell and Department of Medical Education (DME), HITEC-IMS, in collaboration with Wah Medical College (WMC), organized a two-day workshop on “Data Analysis and Interpretation Using SPSS: Basics to Advanced Statistical Techniques” on 23rd–24th September 2025.

The sessions were conducted by Mr. Asad Ellahi (Research Officer, WMC) and Miss Waleeja-Tur-Rabbia (Statistical Officer, WMC), who delivered comprehensive training on both foundational and advanced statistical applications including data entry, descriptive statistics, regression, correlation, and advanced tests for variance and means. The sessions were interactive, allowing participants to practice real-time analysis using SPSS.

The workshop was attended by 23 participants from HITEC-IMS, NESCOM, and PMO, including postgraduate trainees and faculty members ranging from lecturers to professors. Accredited by the National University of Medical Sciences (NUMS) for CPD/CME points, the event concluded with certificates awarded to participants, and shields along with certificates presented to the facilitators in recognition of their contribution. Participants highly valued the engaging and practice-oriented learning experience.

Workshop Data
Medical College HITEC–IMS

Serial No	Title of workshop	Date/Organized by	Name of faculty	Facilitated/Attended
1	ISO 9001:2015 QMS Certification	1.8.2025/HITEC-IMS	Prof IramTassaduq Dr. Maleeha Zafar Dr. Faiza Batool	Organized Attended Attended
2	Harnessing AI for medical education advancement	3.6.2025/ HITEC-IMS	Prof Iram Tassaduq Dr. Iram Zakria Dr. Maleeha Zafar Dr. Aqsa Naheed Dr. Ashi Ahmed Dr. Mahwash Jamil Dr. Ayesha Akram Dr. Salma Ambreen Dr. Wajiha Mahjabeen Dr. Tehniat Bashir	Attended Attended Attended Attended Attended Facilitated Attended Attended Attended Attended
3	Hands on SPSS workshop for emerging researchers	26.7.2025/HITEC-IMS	Dr. Iram Zakria Dr. Maleeha Zafar Dr. Ambreen javed Dr. Ummara Aslam Dr. Raheela Yasmeen	Attended Attended Attended Attended Attended
4	Prescription writing and most common drug interactions	09.09.2025/ HITEC-IMS Taxila Cantt	Dr. Munir Ahmad Dr. Salma Ambreen Dr. Muhammad Hamza Dr. Anwar Bibi Dr. Nimra Faiz Dr. Urooj Fatima Dr. Syeda Urooj Zaidi Dr. Asma Khan Dr. Sughra Kanwal Dr. Habibah Ishaq Dr. Ayla Babar Dr. Hafsa Niazi Dr. Sabahat Saeed Dr. Maryam Rana Dr. Hassan Arshad	Facilitated Facilitated Attended Attended Attended Attended Attended Attended Attended Attended Attended Attended Attended Attended Attended Attended

5	17th Annual ECG Workshop 2025 ECG in Medical Emergencies	25.10.2025/ AFIC & NIHD Rawalpindi	Dr. Shaheer Abdullah Dr. Tehniat Bashir	Attended Attended
6	Engage to Educate: Effective Presentation Skill for Health Professionals	20.11.2025/HITEC IMS	Dr. Ayesha Sughra Dr. Mohsin Raza Dr. Nida Rafaqat Dr. Moiza Ishaq Dr. Ayla Babar Dr. Hafsa Niazi Dr. Hassan Arshad Dr. Haseeb ur Rehman Dr. Tehniat Bashir Dr. Kashmala Tariq	Attended Attended Attended Attended Attended Attended Attended Attended Attended Attended
7	SPSS Data Entry & Analysis	26.05.2025/digital library nursing college HITEC-IMS	Dr. Amina Zahid Dr. Arfa Dr. Urooj Fatima Dr. Syeda Urooj Zaidi Dr. Sughra Kanwal Dr. Sabahat Saeed Dr. Tehniat Bashir Dr. Mohsin Raza Dr. Sidra Farooq Dr. Atiya Firdous	Attended Attended Attended Attended Attended Attended Attended Attended Attended Attended
8	Best Practices For Ethical Review Committee	28.05.2025	Dr. Ambreen javed Dr. Wajiha Mahjabeen Dr. Sabahat Rehman Dr. Alia Zubair	Attended Attended Attended Attended
9	Post Hoc Analysis-CPSP Approved/ Certified Workshop	28.11.24	Dr. Ambreen Javed Dr. Ummara Aslam Dr. Raheela Yasmeen	Attended Attended Attended

10	Workshop on internal assessment formulation	20.11.2025/HITEC IMS	Dr. M Hammad Dr. Asif Shahab Dr. Rubace Fatima Dr. Mahwash Jamil Dr. Sabahat Saeed Dr. Faiza Batool Dr. Amina Zahid	Attended Facilitated Attended Attended Attended Attended
11	Workshop On Empathy	16.5.2025/ HITEC IMS	Dr. Mahwash Jamil Dr. Salma Ambreen Dr. Alia Zubair Dr. Mehwish Sultan Dr. Hasiba Rasheed Dr. Aqsa Naheed Dr. Amina Zahid	Attended Attended Attended Facilitated Facilitated
12	Workshop on neonatal resuscitation	21.1.2025/ HITEC IMS	Dr. Ayesha Akram	Attended
13	Smarter teaching with AI: from learning objectives to delivering lectures	29.7.2025/ HITEC IMS	Dr. Ayesha Akram	Attended
14	Data analysis & interpretation using SPSS	24.9.2025/ HITEC IMS	Dr. Adeela Ameen Dr. Salma Ambreen Dr. Wajiha Mahjabeen Dr. Asifa Afzal Dr. Nida Raffaqat Dr. Khadija Zehra	Attended Attended Attended Attended Attended Attended
15	ISO 9001: 2015 QMS	11.7.2025/ HITEC IMS	Dr. Adeela Ameen Dr. Mohsin Raza Dr. Raima Sidiqqui	Attended Attended Attended
16	HITEC IMS Trauma course	6.8.2025/ HITEC IMS	Dr. Salma Ambreen Dr. Abdul Wadood Dr. Hassan Arshad Dr. Tehniat Bashir	Facilitated Attended Attended Attended

17	Research design workshop: evidence begins with design	14.11.2025/ HITEC IMS	Dr. Wajiha Mahjabeen	Attended
18	Communication Skills	7.2.2025	Dr. Sabahat Rehman Dr. Urooj Fatima Dr. Sabahat Saeed Dr. Mehwish Sultan Dr. Hasiba Rasheed Dr. Salma Ambreen Dr. Haseeb ur Rehman Dr. Irum Tasaduq	Attended Attended Attended Facilitated Facilitated Attended
19	Mentoring	Computer lab Nursing college	Dr. Urooj Fatima	Attended
20	Parenting in the digital age	16.10.2025/ HITEC IMS	Dr. Mehwish Sultan	Facilitated
21	PCNL	12.12.2024/ Islamabad	Dr. Ahmad Sajjad	Attended
22	Research Methodology	27.02.2025/CPSP Rawalpindi	Dr. Danish Rauf	Attended
23	BLS	04.06.2025/CPSP Rawalpindi	Dr. Haseeb ur Rehman	Attended
24	Career planning workshop	21.07.2025/HITEC IMS	Prof Dr. Syed Wasim Akhter	Facilitated
25	SPSS data entry and analysis	07.11.2024 HITEC IMS	Prof Dr. Hassan Burair Abbas	Attended
26	Workshop on research methods and data analysis for nutritional surveillance	16.10.2025/Hamdard University	Dr. Ayesha Afzal	Attended
27	Smarter teaching with AI: from learning objectives to delivering lectures	29.07.2025/HITEC IMS Dental college	Dr. Ashi Ahmed Dr. Ayesha Akram	Attended
28	Basics of clinical audit	20.01.2025	Dr. Ashi Ahmed	Attended
29	ABC of randomized controlled trail	20.02.2025	Dr. Ashi Ahmed	Attended

30	Labor and its management	22.10.2025/Wah Medical College	Dr. Mahwash Jamil	Facilitated
31	Hands on workshop on operative laparoscopy	06.11.2024/BBH Rawalpindi	Dr. Ayesha Akram	Attended
32	Hands on workshop on ten step approach towards successful TLH	14.12.2024/BBH Rawalpindi	Dr. Ayesha Akram	Attended
33	Blue printing and item analysis	29.9.2025/Fazaia Medical College	Dr. Ayesha Akram	Attended
34	Workshop on use of artificial intelligence in medicine	03.06.2025	Dr. Shahid Rauf	Attended
35	Roots of research by irtiqa 15 days webinar series on Research methodology, AI tools, data analysis, academic writing and professional tools	07.2025/Irtiqa research center	Dr. Tehniat Bashir	Attended
36	ECG in cardiac emergencies	09.2025/FPGMI PAF Hospital Islamabad	Dr. Tehniat Bashir	Attended
37	Military trauma & life support course	09.2025/AFPGMI Rawalpindi	Dr. Tehniat Bashir	Attended

Research Workshops at Dental College:

The Research Cell organized a series of engaging workshops during the past year; each designed to nurture curiosity and build research competence among students and faculty. The sessions began with Foundation of Research, introducing participants to the essentials of research methodology, question formulation, and study planning. This was followed by a stimulating workshop on Literature Review, where attendees explored strategies to search, analyze, and synthesize academic sources through practical, hands-on activities. The final session, Research Designs, offered insight into quantitative, qualitative, and mixed-method approaches, enabling participants to conceptualize and outline their own research proposals.

Each workshop drew enthusiastic participation and appreciation for its interactive format and practical focus. Together, these initiatives reflected the Research Cell's dedication to fostering a vibrant research culture and inspiring future scholars within the institution.

Workshop Data
Dental College HITEC–IMS

Sr.	Faculty Name	Title of Workshop	Date/ Venue	Facilitated/ Attended
1	Prof. Dr Beenish Qureshi Dr Amna Riaz	"KPI" construction	6th January 2025	Attended
2		Effective SAQs & Clinical vignettes development	23rd April 2025	
3	Prof. Dr Beenish Qureshi Dr Amna Riaz Dr Sharaz Ahmad	Rotary endodontics	15th may 2025	Facilitator
4	Prof. Dr Beenish Qureshi Dr Amna Riaz	Smarter teaching with AI	29th July 2025	Attended
5	Prof. Dr Beenish Qureshi Dr Amna Riaz Dr Sharaz Ahmad	Peral esthetics: bleaching techniques	5th December 2025	Facilitator
6	Prof Dr Rabia Masood	Oral Histopathology Workshop: Diagnosing with Confidence, Mastering Oral Histopathlogy.	Dental College HITEC-IMS, Taxila Cantt. 30th July 2025	Facilitator
		Effective SAQs and Clinical Vignettes Development	Dental College HITEC-IMS, Taxila Cantt, 23rd April, 2025	Attended
		Developing the skills for effective MCQs item development	Dental College HITEC-IMS, Taxila Cantt, 21st Jan 2025.	
		Orientation to Integrated Curriculum and Assessment	Dental College HITEC-IMS, Taxila Cantt, 18th Feb, 2025	
		Oral Histopathology Workshop	Islamic International Dental College, Riphah International University, 16th July, 2025	

7	Dr. Muhammad Hasnain	Educational planning & Evaluation	19th – 21st Dec 2024, College of Physicians & Surgeons of Pakistan	Attended
		Assessment of Competence	17th – 19th July 2025, College of Physicians & Surgeons of Pakistan	
		Teaching with AI	29th July 2025, Dental College, HITEC-IMS	
		Digital impression, Aligners &IPR in dentistry	29th Aug, 2025, Dental College, HITEC-IMS	Organized / Facilitated
8	Dr. Shahzonia Tariq	Educational planning & Evaluation	15th – 17th May 2025, College of Physicians & Surgeons of Pakistan	Attended
		Assessment of Competence	17th – 19th July 2025, College of Physicians & Surgeons of Pakistan	
		Teaching with AI	29th July 2025, Dental College, HITEC-IMS	
		Effective SAQs & Clinical Vignettes Development	23rd April 2025, Dental College, HITEC-IMS	
		Reimagining research through the power of AI	31st Oct 2024, Riphah International University	

9	Dr.Maria Rabbani	Orientation to Integrated Curriculum, Teaching and Assessment	18th Feb,2025	Attended
		Research Foundations	25th March,2025	
		Developing Effective SAQs	23rd April,2025	
		Literature Review Skills	25th July ,2025	
		Smarter Teaching with AI	29th July,2025	
10	Dr. Saleha Saeed	Research designs: Evidence Begins with Design	14th November 2025	Attended
		Examination Item Analysis	20th August 2025	
		Diagnosing with Confidence: Mastering Oral Histopathology	30th July 2025	Facilitator
11	Dr. Azka Haroon	Teaching with AI: From Learning Objectives To Delivering Lectures	29th July,2025	Attended
		Oral Histopathology: Diagnosing with Confidence- Mastering Oral Histopathology	30th July, 2025	Facilitated
		Item Analysis	20th August, 2025	Attended

12	Dr. Fatima Shaukat	Reimagining Research Through the Power of Artificial Intelligence.	RARE Conference Hall, Al-Mizan Campus, Rawalpindi. October 31, 2024,	Attended
		Research Methodology	Dental College HITEC-IMS October 2024	Facilitated
		Foundation of Research	Dental College HITEC-IMS January 2025	
		Literature Review	Dental College HITEC-IMS July 2025	
		Smarter Teaching with AI	Dental College HITEC-IMS July 2025	
		MCQ construction	Dental College HITEC-IMS January 2025	
13	Dr. Nida Zehra Bano	Building fundamental competencies in research; Academic	13th January 2025	Facilitated, Dental section, Army Medical College,
14	Dr. Rida Batool Dr. Saira Bibi	MCQs Construction	21st January,2025	Attended
15	Dr. Nausheen Ashraf, Dr. Saira BiBi	Orientation to Integrated Curriculum, Teaching and Assessment	18th Feb,2025	
16	Dr. Nausheen Ashraf	Developing Effective SAQs	23rd April,2025	
17		Crystal clear: Unveiling the power of crystallization in	25th April 2025	

18	Dr. Rida Batool/ Dr. Saira Bibi	Literature Review	25th July,2025	Attended
19	Dr. Nausheen Ashraf	Smarter Teaching with AI	29th July,2025	
20	Dr. Nausheen Ashraf/ Dr. Rida Batool/ Dr. Saira Bibi	Item Analysis: A workshop for growth	20th August,2025	
21	Dr. Nausheen Ashraf/ Dr. Rida Batool	Research designs workshop Evidence begins with design	14th November 2025	
22	Dr. Zunaira Saeed	Research designs: Evidence Begins with Design	14th November 2025	
		Examination Item Analysis	20th August 2025	
		Diagnosing with Confidence: Mastering Oral Histopathology	30th July 2025	Facilitator

Section 03

SEMINARS/CONFERENCE

1st International Research Conference

The 1st International Research Conference organized by HITEC-Institute of Medical Sciences was held with great success, marking a significant milestone in the institute's journey towards academic and research excellence. The event was graced by the esteemed Chief Guest, Maj Gen (R) Muhammad Aslam, whose presence added prestige to the occasion.

With the theme focused on advancing medical science through research and collaboration, the conference brought together more than 200 participants from 25 medical and dental colleges across Pakistan. Over 100 oral and poster presentations were submitted, showcasing innovative research and emerging scientific trends especially from students, and young researchers

A major highlight of the event was the presence of distinguished international speakers, who delivered insightful presentations on diverse and timely topics:

A. Dr. Asma Naseer Cheema, MBBS, MPhil, PhD

Research Associate, Department of Human Genetics, School of Public Health, University of Pittsburgh, USA

Topic: Mastering Systematic Reviews & Meta-analysis

B. Dr. Faisal Ali, BSc Computer Systems Engg (GIKI), MSc (University of Edinburgh, UK), PhD in Advanced Machine Learning and Bioinformatics (Aalto University School of Science, Finland)

Associate Director and Global AI Product Development Lead, Coca-Cola Europacific Partners, London, UK

Topic: How Artificial Intelligence Can Help in Patient Deterioration Prediction

C. Prof. Abdul Samad Khan, FADM, BDS, MSc, PhD, FHEA, FDSRCPS (Glasg)

Professor of Dental Biomaterials, Department of Restorative Dental Sciences, College of Dentistry, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia

Topic: Dental Research in Pakistan: Prospects, Challenges, and Recommendations

D. Dr. Majid Shafiq, MD, MPH

Medical Director, Harvard's Mass General Brigham Hospital System, USA

Topic: Conducting Impactful Systematic Reviews and Meta-Analyses: Best Practices

The conference also featured two valuable workshops that added a practical dimension to the learning experience:

A. An On-campus SPSS workshop titled "Evidence through Analysis: Hands-On SPSS Workshop for Emerging Researchers", which provided participants with practical data analysis skills.

B. An Online post-conference workshop conducted in collaboration with BMY-Health Canada titled "Best Practices for Ethical Review Committees", aimed at strengthening the ethical framework of research practices.

The Student Research Society played a vital role in the planning and execution of the conference, alongside other student societies of HITEC-IMS, contributing significantly to its overall success.

The 1st International Research Conference at HITEC-IMS was a celebration of knowledge, collaboration, and innovation, and it laid a strong foundation for future academic endeavors.

1st International Research Conference

ANNUAL REPORT OF EVENTS BY RESEARCH SOCIETY
EVENTS ORGANIZED:

1. FIRST INTERNATIONAL RESEARCH CONFERENCE 2025

Date: 27th May, 2025
Time: 8.30-3.30
Venue: HITEC Secretariat, Taxila
Theme: Advancing Medical Sciences Through Research and Collaboration.

Organizing committee:

Conference chairperson	Prof. Maj Gen (R) Hamid Shafiq HI (M)
Chair, Organizing committee	Prof. Dr. Wajiha Mahjabeen

Committee Members:

Prof Dr. Nasser Rashid Dar
Brig Javid Hassan Hashmi
Maj Azmat Shakeel
Prof Dr. Zubia Razzaq
Prof Dr. Alia Zubair
Prof Dr. Aashi Mughal
Prof Dr. Irum Tassaduq
Prof Dr. Anwar bibi
Prof Dr. Shahida Mushtaq
Dr Salma Ambreen Shahab
Mr Wajid Anwar

Student Research Society:

President	Muhammad Moeed Azwar Bhatti
Vice president	Bilal Arshad
Vice president	Rao Umer Farooq
Vice president	Noor-ul-Eman
General secretary	Areej khalid
Joint secretary	Hajra Bibi

1st International Research Conference

ANNUAL REPORT OF EVENTS BY RESEARCH SOCIETY
EVENTS ORGANIZED:

CONFERENCE OVERVIEW:

The first international research conference held by HITEC-IMS on 27th May, 2025, under the theme “Advancing Medical Sciences Through Research and Collaboration”. This conference provided young doctors with a valuable platform to actively engage in research by participating in multiple interactive and skill-building activities. The event featured:

1.Renowned international experts delivered insightful lectures.

2. Workshops that enriched participant skills, including:

* An on-campus pre-conference and main day SPSS workshop titled “Evidence Through Analysis: Hands-On SPSS Workshop for Emerging Researchers”
* An online post-conference workshop in collaboration with BMY-Health Canada, titled “Best Practices for Ethical Review Committees”

• Research competitions, which included:

* Oral presentations
* Poster presentations
* E-presentations for national & international participants

OPENING CEREMONY:

The ceremony began with the Recitation of the Holy Quran followed by the National Anthem, setting a respectful and patriotic tone. Prof. Dr. Wajiha Mah Jabeen, Chair of the Organizing Committee, delivered the opening remarks, warmly welcoming the audience and outlining the vision behind the conference. The Welcome Address was then presented by Prof. Maj Gen (R) Hamid Shafiq HI (M), Principal HITEC-IMS and Conference Chairperson, who emphasized the importance of fostering research culture among students and faculty alike. The highlight of the ceremony was the Keynote Address by the Chief Guest, Maj. Gen. (R) Prof. Dr. Muhammad Aslam, a highly distinguished academician and researcher with over four decades of teaching and research experience in physiology.

ANNUAL REPORT OF EVENTS BY RESEARCH SOCIETY
EVENTS ORGANIZED:

INTERNATIONAL SPEAKERS LECTURE SESSION:

After the opening ceremony, the event transitioned into its formal segments, commencing with lectures delivered by distinguished international speakers. The speakers and their sessions included:
1. “Mastering Systematic Reviews & Meta-analysis” by Dr. Asma Naseer, research associate at University of Pittsburgh.
2. Dr. Ali Faisal, Associate Director and Global AI Product Development Lead at Coca-Cola Europacific Partners, London, delivered an engaging lecture on “How Artificial Intelligence Can Help in Patient Deterioration Prediction”.
3. “Dental Research in Pakistan: Prospects, Challenges, and Recommendations”, by Prof. Abdul Samad Khan, Professor of Dental Biomaterials at Imam Abdulrahman Bin Faisal University, Dammam.
4. Dr. Majid Shafiq, Medical Director at Harvard’s Mass General Brigham Hospital System, USA, presented a lecture titled “Conducting Impactful Systematic Reviews and Meta-analyses: Best Practices”.

ANNUAL REPORT OF EVENTS BY RESEARCH SOCIETY
EVENTS ORGANIZED:

RESEARCH PRESENTATION COMPETITIONS:

Research presentation competitions included poster, verbal and e-presentations in which a large number of students from different institutes participated, including 84 oral and poster presentations. A total of 49 poster presentations, 24 verbal presentations, and 11 online presentations were delivered during the event. Each session was held separately in different venues and evaluated by a panel of internal and external judges, ensuring fair and just results. SRS members were also designated for every venue. Winners in each category received certificates and prizes in recognition of their excellence. Additionally, all participants were presented with e-certificates to acknowledge their valuable contributions and active engagement in the conference.

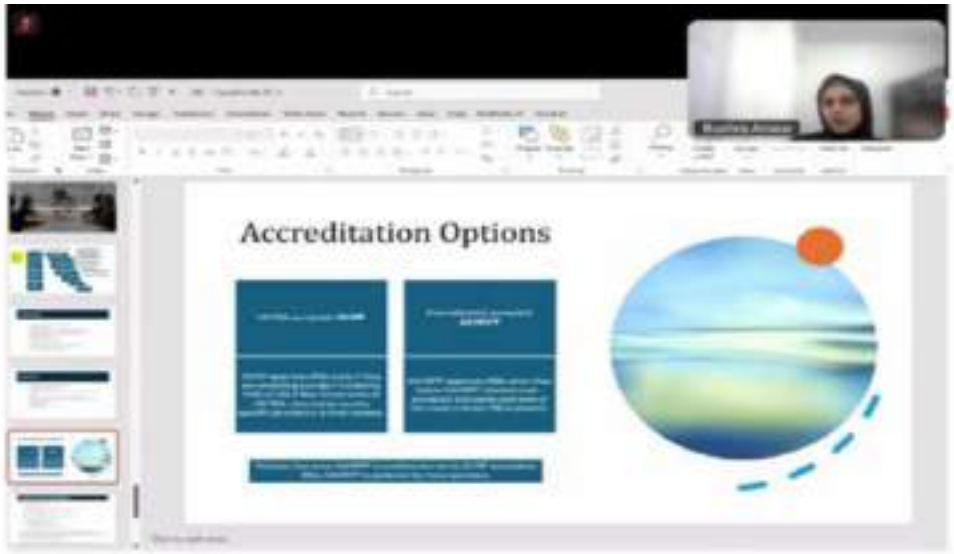
ANNUAL REPORT OF EVENTS BY RESEARCH SOCIETY
EVENTS ORGANIZED:

2. PRE-CONFERENCE WORKSHOP:
Date: 26th, 27th May 2025
Time: 11 am- 2 pm
Venue: Digital library, HITEC-IMS.
Title: "Evidence Through Analysis: Hands-on SPSS Workshop for Emerging Researchers".
Facilitators: Dr. Ali, Dr. Wajiha
SRS Members: Izza Muddassir, Furqan Basim, Laraib Fatima.
The workshop titled "Evidence Through Analysis: Hands-On SPSS Workshop for Emerging Researchers" was conducted both as a pre-conference session and on the main day of the conference. Many under-graduate, post-graduate students and faculty members participated in the workshop, were guided through interactive sessions, exercises and hands-on experience in using SPSS for research data and analysis.

ANNUAL REPORT OF EVENTS BY RESEARCH SOCIETY
EVENTS ORGANIZED:

3. POST-CONFERENCE WORKSOP

Date: 28th May 2025
Time: 8.30-11.30 pm
Title: "Best Practices For Ethical Review Committee".
This session was conducted in collaboration with BMY Health Canada, facilitated by Dr. Bushra Anwar, Director of BMY Health. The workshop focused on enhancing the capacity of IRB members and researchers in conducting ethical reviews aligned with global best practices.



SEMINARS/CONFERENCE

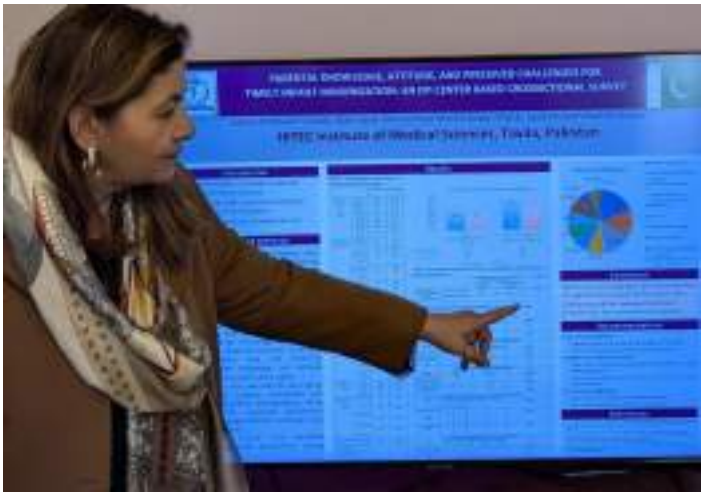
2024 Insitute For Integration Of Medicine and Science (IIMS) Community Engagement Symposium

University of Texas Health San Antonio, Texas, USA organized the Community Engagement Symposium

This platform aimed to provide building trust and amplifying the voices to advance the science of community engagement for health, worldwide. The symposium featured keynote speakers and experts from all over the world. Assistant Prof Salma Ambreen Shahab from Department of Medical Education HITEC-IMS presented a poster of research done in the local community of Taxila, Pakistan. She presented her research poster on

PARENTAL KNOWLEDGE, ATTITUDE, and PERCEIVED CHALLENGES FOR TIMELY INFANT IMMUNIZATION: AN EPI CENTER BASED CROSSECTIONAL SURVEY

She explained that addressing knowledge gaps and misconceptions could significantly improve immunization rates. Collaborative efforts between healthcare providers and the community are essential.



SEMINARS/CONFERENCE
Medical College HITEC–IMS

Sr.	Name / Topic of Conference	Date/ Venue	Faculty name	Attended/ Participated	Organized by
1	CPC Role of early hours management in trauma	Nov, 2024/ HITEC - IMS	Dr Tehniat Bashir	Presented	HITEC - IMS
2	Parental Knowledge , Attitude and Perceived Challenges for timely Infant Immunization: An EPI center based cross sectional survey	7.11.2024/ IIMS Community Engagement Symposium, University of Texas San Antonio, Texas, USA	Dr. Salma Ambreen Shahab	Presented	Research Cell & DME University of Texas San Antonio, Texas, USA
3	Webinar Use of Large Language Models (LLMs) in scientific Research	12.12.24	Dr. Ayesha Akram	Attended	SALT -RMU Chapter
4	Webinar Sexual dysfunction in midlife	19.12.24	Dr. Ayesha Akram	Attended	*South Asian Federation of Menopause Societies* (SAFOMS)
5	Communication Skills	7.2.2025/ HITEC - IMS	Dr Amina Zahid DR. Eiman	Attended	Dr Farrukh Hayat khan
6	CPC Hematuria- Top of iceberg	Feb, 2025	Dr Tehniat Bashir	Presented	HITEC - IMS
7	Uses of AI in medical sciences	11 -13 .4.25/ Wah Medical College	Dr Aashi Ahmed Dr Anwar Bibi	Attended	Wah Medical College

8	1st International Research Conference Advancing Medical Science through Research and Collaboration	27.5.25 HITEC IMS	Prof Asma Hafeez Prof Iram Tassaduq Prof. Munir Ahmad Khan Dr Iram Zakria Dr Maleeha Zafar, Dr Ambreen Javed Dr Asma Khan Dr Urooj Fatima Dr Raheela Yasmin Dr Ummara Aslam, Dr Aashi Ahmed Dr Anwar Bibi Dr Amina Zahid, Dr. Rubace Fatima, Dr. Nimra Faiz Dr. Habibah Ishaq Dr. Sabahat Saeed Dr. Hafsa Niazi Pharmacist Bushra Taskeen Dr Aashi Ahmed Dr Anwar Bibi Dr Amina Zahid Dr Tehniat Bashir Dr Alia Zubair Dr Syeda Urooj Zaidi	Attended	Research cell HITEC IMS
9	Seminar Polycystic ovarian syndrome	21.6.25	Dr. Ayesha Akram	Attended	
10	6th IPAAC INTERNATIONAL PAADS AESTHETIC & ANTI-AGING CONGRESS 2025	11-13.7.25 PC Lahore	Dr Aqsa Naheed	Presented	Pakistan Academy of Aesthetics
11	Abdomen- A temple full of surprises	July, 2025	Dr Tehniat Bashir	Presented	HITEC - IMS
12	Parenting Skills	07.10.25/ HITEC-IMS	Dr Raheela Yasmin Dr Ummara Aslam, Dr Amina Zahid,	Attended	HITEC-IMS
13	Investment Opportunities in Army Welfare Trust	15-10-25	Dr Raheela Yasmin	Attended	HITEC

14	Lecture on anger management for emotional well being	16-10-25/ HITEC - IMS	Dr. Asma Khan Dr Syeda Urooj Zaidi Dr. Habibah Ishaq, Prof Khalid Mehmood Tariq, Prof Syed Wasim Akhtar, Prof Kausar Malik, Prof Faiza Batool, Prof M Shahid Khan, Prof Hassan Burair, Dr M Usman, Dr	Attended	Psychiatry department
15	Molecular Screening of CA Breast and hematological malignancy	17.10.25/ NESCOM	Dr. Nimra Faiz	Attended	Agha Khan Uni Karachi
16	Breast Cancer awareness Seminar	21.10.25/ HITEC-IMS	Prof Kausar Malik, Prof Faiza Batool, Dr Huma Zafar, Dr Kashmala Tariq, Dr Armin, Dr Raheela Yasmin Dr Ummara Aslam, Dr Ambreen Javed, Dr Amina Zahid, Dr Arfa Attique Dr. Asma Khan Dr Syeda Urooj Zaidi Dr. Habibah Ishaq Pharmacist Bushra Taskeen Dr Amina Zahid	Attended	HITEC-IMS
17	Breast cancer symposium	23.10.25/ NESCOM	Dr. Nimra Faiz	Attended	Islamabad Medical Complex - Dept of Surgery
18	Breast awareness conference	23.9.25	Dr Tehniat	Attended	NESCOM (IMC), Islamabad
19	Emergency Medicine Conference 2025	29-30.10.25/ Shifa International Hospital Islamabad	Dr. Nimra Faiz	Attended	Shifa Center of Professional Excellence (SCOPE)

20	Professionalism: Professional and ethical challenges in era of AI and Robotics	30.10.25/ HITEC-IMS	Prof Khalid Mehmood Tariq, Prof Kausar Malik, Prof Faiza Batool, Prof M Shahid Khan, Prof Hassan Burair, Dr M Usman, Dr Kashif Dar Prof. Munir Ahmad Khan Dr Ambreen Javed Dr Raheela Yasmin Dr Ummara Aslam, Dr Asma khan Dr Syeda Urooj Zaidi Pharmacist Bushra Taskeen Dr. Habibah Ishaq Dr. Ayesha Sughra	Attended	HITEC-IMS
21	Annual urological conference 2025	7-9.11.25/ Lahore	Dr Ahmad Sajjad	Attended	Pakistan association of urology
22	Prevention of non-communicable diseases-with lifestyle modification	13.11.25	Dr Hassan Burair Abbas	Participated	HIT Hospital
23	Diabetes awareness on world diabetes Day	4.11.25	Prof Khalid Mehmood Tariq, Prof Syed Wasim Akhtar, Prof Kausar Malik, Prof Faiza Batool, Prof M Shahid Khan, Prof Hassan Burair, Dr Huma Zafar, Dr M Usman, Dr Kashif Dar Dr Kashmala Tariq PGT,	Participated and attended	Medicine Department HITEC-IMS
24	15th Annual Public Health Conference,	18 .11.25/ Islamabad	Dr Aashi Ahmed	Attended	Health Services Academy
25	Annual urological conference 2024	13-15.12.25/ Islamabad	Dr Ahmad Sajjad	Attended	Pakistan association of urology
26	SPSS Statistical Package for the Social Sciences	Digital library	Dr Arfa	Attended	Research Cell
27	Oral Health	HITEC-IMS	Dr Arfa	Attended	Dental college
28	Mentorship	LEC HALL 5	Dr. Eiman	Attended	HITEC-IMS
29	Screen Time In Children	HITEC-IMS	Dr. Eiman	Attended	HITEC-IMS

SEMINARS/CONFERENCE

Featured Speaker at the 46th PAP & 11th Joint Conference of Pathology Societies

Our faculty member Assistant Professor Dr. Azka Haroon from the department of Oral and Maxillofacial Pathology was invited as a featured speaker at the 46th International Conference of the Pakistan Association of Pathologists (PAP) and the 11th Joint Conference of Societies of Pathologists. She delivered an insightful presentation titled “Artificial Intelligence (AI)-Enabled Diagnostics: A Paradigm Shift in Oral Cancer Diagnosis.”

The conference proved to be a valuable platform for academic enrichment and professional collaboration. Esteemed speakers from around the world contributed their expertise, fostering meaningful discussions on advancements and innovations across various pathology disciplines.

SEMINARS/CONFERENCE

46th International Conference by Pakistan Association of Pathology (PAP), under the roof of Pakistan Society of Oral and Maxillofacial Pathology held at PC Lahore (PSOMP).

We extend our sincere congratulations to Dr. Saleha Saeed for achieving 1st position in the oral presentation competition at the 46th International Conference of the Pakistan Association of Pathologists (PAP). She presented her research titled “Comparison of Salivary Matrix Metalloproteinase-8 Levels in Periodontitis Patients with and Without Type 2 Diabetes Mellitus” under the banner of the Pakistan Society of Oral and Maxillofacial Pathology (PSOMP) — a remarkable accomplishment that reflects her strong research acumen and scientific insight.

Dr. Saleha recently completed her M.Phil. in Oral Pathology from the Department of Oral Pathology, Khyber Medical University, Peshawar, where she consistently demonstrated academic excellence, dedication, and a commitment to advancing her professional expertise. She has now joined the Dental College, HITEC-IMS, Taxila, where she continues to build upon her academic and research pursuits in the field of Oral Pathology. We wish Dr. Saleha continued success in all her future endeavors and look forward to her ongoing contributions to the profession

SEMINARS/CONFERENCE

Regional (Islamabad) IADR Pre–Hatton Award Competition 2026

We extend our heartfelt congratulations to Dr. Saleha Saeed for securing 1st position in the Oral Presentation category at the Regional IADR Hatton Award Competition 2026, held at Shifa College of Dentistry. Her presentation, “Comparison of Salivary Matrix Metalloproteinase-8 Levels in Periodontitis Patients with and Without Type 2 Diabetes Mellitus,” demonstrated exceptional scientific rigor and highlighted her strong passion for research and commitment to advancing evidence-based dentistry.

Her remarkable achievement at the regional level qualified her for the inter-regional competition among various cities of Pakistan, where she once again excelled and earned 2nd position.

We commend Dr. Saleha for her dedication to innovative research and wish her continued success in all her future academic and scientific endeavors. Her enthusiasm for discovery and her ongoing contributions to the profession are truly inspiring.

SEMINARS/CONFERENCE
Dental College HITEC–IMS

Sr.	Faculty Name	Name / Topic of Conference Attended / Participated	Date/ Venue	Organized by
1	Prof. Dr Beenish Qureshi Dr Amna Riaz	Career counselling	12th May 2025	Dental College HITEC-IMS, Taxila
2	Prof Dr Rabia Masood	**Speaker:** Shaping the future: A new Era of Oral Histopathology in Pakistan.	10th-12th Oct 2025	PAP 46th International Conference
3		IAP-HCSP Histopathology Update Conference 2025 Shaukat Khanum Memorial Cancer Hospital & Research Centre	July 12-13th 2025, Nishat Hotel, Lahore	the AMERICAN ASSOCIATION of CONTINUING MEDICAL EDUCATION
4	Dr. Muhammad Hasnain	11th International Orthodontic conference	30th-31st Oct, Best Western Hotel, Islamabad	Pakistan Association of Orthodontists
5	Dr. Maria Rabbani	1st International Research Conference	May 27,2025 HITEC IMS ,Taxila	HITEC-IMS Medical College
6		Smile Con 25	May 22,2025 Dental College HITEC-IMS	APDSA Pakistan
7		Roundtable Conference on Integrating Character Education in Healthcare Professional Education	Feb 21,2025 Watim Medical and Dental College	Pakistan Association of Private Medical and Dental Institutions(PAMI)
8	Dr. Saleha Saeed	Webinar/ artificial Intelligence in Medical Education: From hype to purposeful integration/ **Attended.**	3rd July 2025/Online	Corteach
9	Dr. Saleha Saeed	46th International Conference of Pakistan Association of Pathologists, 11th Joint Conference of Societies of Pathology/ Comparison of salivary matrix metalloproteinase-8 levels in periodontitis patients with and without diabetes mellitus/ **Oral Presenter**	10-12 October 2025/ Pearl Continental Lahore	ONYX

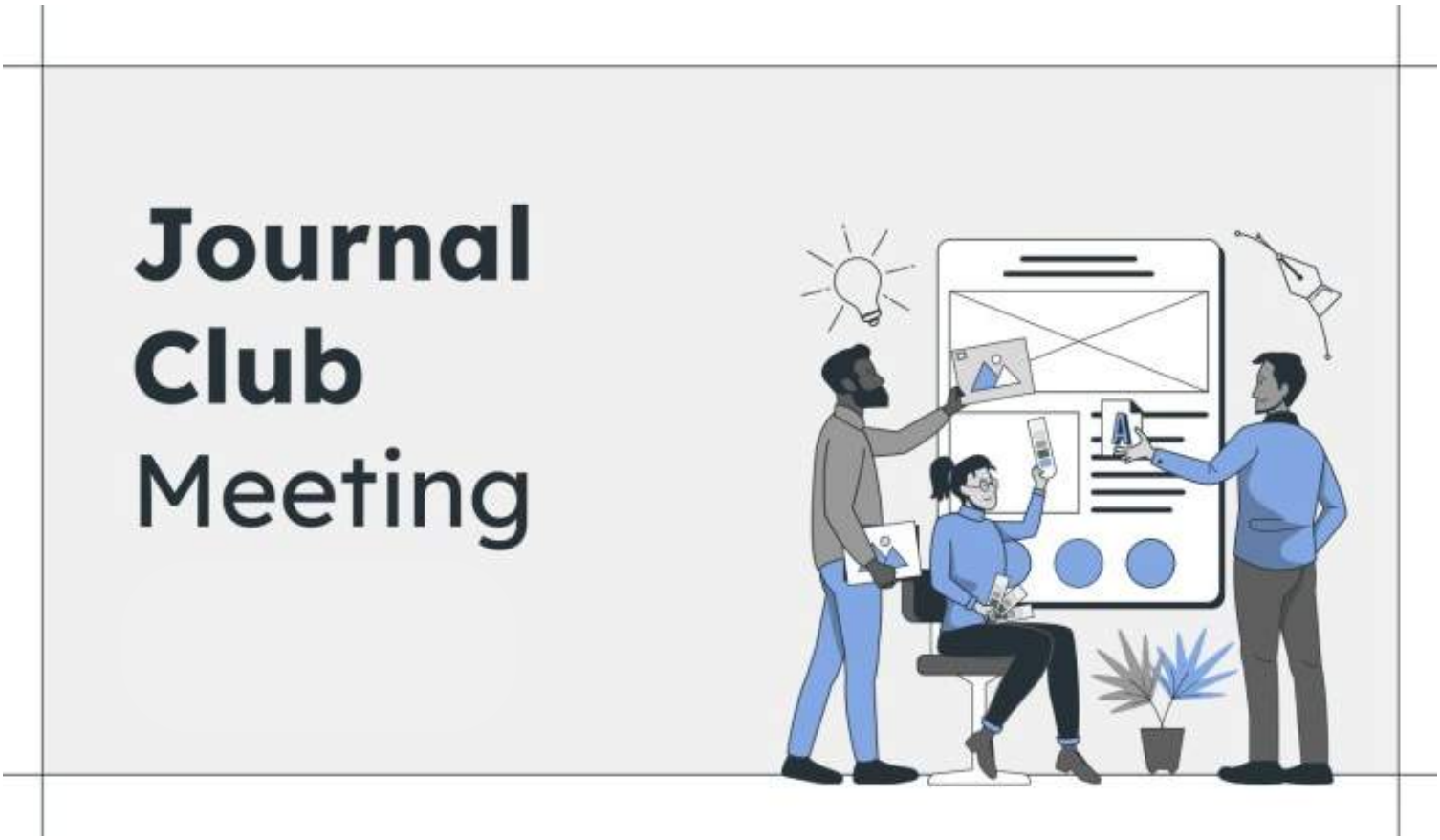
10	Dr. Saleha Saeed	Regional IADR / **Oral Presenter**	13October/ Shifa College of Dentistry	PADR
11	Dr. Saleha Saeed	Interregional IADR/ **Oral Presenter**	20th October 2025/ Online	PADR
12	Dr.Azka Haroon	International Conference on Pediatrics and Child Health/Encouraging Prospects: Promoting Health and Well-being in Pediatrics/**Participated**	May 15-16,2025/ Dubai, UAE	Scientex Conferences
13	Dr. Azka Haroon	Webinar/ Artificial Intelligence in Medical Education from Hype to Purposeful Integration/ Attended	3rd July,2025	Corteach
14	Dr. Azka Haroon	Webinar/ AI in Medical Research/ Attended	15th August, 2025	Corteach
15	Dr. Azka Haroon	46th International Conference of Pakistan Association of Pathologists 11th Joint Conference of Societies of Pathology/INNOVATIONS IN PATHOLOGY: BRIDGING SCIENCE, TECHNOLOGY AND PATIENT CARE IN THE AGE OF ARTIFICIAL INTELLIGENCE/ **Participated**	October 10-12, 2025/ Pearl Continental Hotel Lahore	Onyx

16	Dr. Fatima Shaukat	“Artificial Intelligence Applications in Healthcare”	(September 20, 2025)	RARE Riphah International University
17		"Publishing With Impact: Standards, Scient metrics and Al"	(Sunday 21 September)	
18	Dr.Nausheen Ashraf Dr. Rida Batool Dr. Saira Bibi	Smile Con 25	May 22,2025 Dental College HITEC-IMS	APDSA Pakistan
19	Dr.Nausheen Ashraf	1st International Research Conference	May 27,2025 HITEC IMS ,Taxila	HITEC-IMS Medical College
20		Advancing Dentistry & sustaining Health	19th November 2025,FUCD	Foundation Medical University
21	Dr. Ayesha Zafar	International Research Conference	Jul 27, 2025 Dental college HITEC-IMS	Dr.Wajeeha
22		Developing The Skills For Effective MCQ Items Development	21st January 2025/Dental college HITEC-IMS	Dr.Faizan Munir
23		Smarter Teaching With AI: From Learning Objectives To Delivering Lectures	29th July 2025 /Dental college HITEC-IMS	Prof. Dr. Rehan Ahmad Khan

24	Dr Ayesha Waseem	Oral histopathology workshop	31th Jul 2025	Dr Rabia Masood
25	Dr Iqra Manzoor Malik	Medical Emergency management in Dental Setting	22nd Oct 2025	Dr Irfan Shah
26		Annual Dental Congress	1ST and 2nd OCT 2025	PADS
27	Dr. Zunaira Saeed	Webinar/ artificial Intelligence in Medical Education: From hype to purposeful integration/ **Attended.**	3rd July 2025/Online	Corteach

Section 04

Journal Club Meeting



Journal Club Meeting
Medical College HITEC–IMS

JCM Presented Title	Presenter
Anatomy	
Integrated performance assessment; student's perception regarding and its relevance to clinical practice as compared with traditional OSPES. Asad M, Iqbal K, Asim A, Farman S. Professional Med J 2017;24(7):972-976. DOI: 10.17957/TPMJ/17.3980	Dr. Mubashir
HISTOLOGICAL EFFECT OF BISPHENOL A ON THE RATS' PAROTID SALIVARY GLANDS. Abdel-Khalek.et.al. Alexandria Dental Journal Volume 48 Issue 2 Section A	Dr. Muhammad Hamza
Attitude of Undergraduate Medical Students towards Classroom Lecture Absenteeism and its Association with Academic Performance, Parama S Engu Pta, SarmiShtha Saha, tania Sur. Journal of Clinical and Diagnostic Research. 2022 Jan, Vol-16(1): JC05-JC11	Dr. Iqra Murtaza
Students' perceptions on OSPE in anatomy subject. Alia Md Yusof. Healthscope 2024, Vol 7(1)	Dr. Iram Rahman
Perception of the teachers and Phase III (part 1) MBBS students regarding objective structured practical examination (OSPE) and traditional practical examination method. Pratibha Gupta, Anjuman Chaudhary, Adity Priya, Arshita Srivastava, Awadhesh Kumar, Parul Singh. Res Dev Med Educ, 2024, 13, 8	Dr. Nayab Zahra
The Prevalence of Anatomical Variations of the Median Nerve in the Carpal Tunnel: A Systematic Review and Meta-Analysis. Brandon Michael Henry, Helena Zwinczewska, JoyeetaRoy, JensVikse, Piravin Kumar Ramakrishna PLOSONE August25,2015	Dr. Abdul Wadood
GAGNÉ'S 9 EVENTS OF INSTRUCTION - A TIME TESTED WAY TO IMPROVE TEACHING. Hidayat Ullah, Atiq Ur Rehman, Saeeda Bibi Pak Armed Forces Med J 2015; 65(4): 535-39	Dr.M. Hamza
Proposal of a Functional Model, and Students' Perspective Regarding its Utilization in Building the Concept. Ashfaq M, Hafeez A, Zafar M, Ashfaq M HMDJ 2021; 01(01): 8-13	Dr. Osama Israr
Duplication and positional variations of the femoral vein: a south Indian cadaveric study. Nayak, S.B., Soumya, K.V *Surg Radiol Anat* 47, 196 (2025).	Dr. Fawaz
Macroscopic and Histological Effects of Polycaprolactone Dermal Filler in the Orofacial Region: A Study in Rats. Silva, A.C.B.d.; Payeras, M.R.; Koth, V.S.; Cherubini, K.; Salum, F.G. Cosmetics 2024, 11, 130. https://doi.org/10.3390/ cosmetics11040130	Dr. Ayesha Niazi
Ten simple rules for effective presentation slides. Naegle KM. PLoS Comput Biol. 2021 Dec 2;17(12):e1009554. doi: 10.1371/journal.pcbi.1009554.	Dr.Shaheer Abdullah

Physiology	
Pathophysiology of Red Blood Cell Dysfunction in Diabetes and its Complications	Dr. Basit Ali
Physiological basis for using Vitamin D to improve health	Dr. Roshaane Ali Khan
Strontium functionalization of Biomaterials for bone tissue engineering purposes; A Biological Point of View	Dr. Taha Abid
Effects of Zinc, vitamin D and their cosupplementation on mood, serum cortisol and brain derived neurotrophic factor in patients with obesity and mild to moderate depressive symptoms: A phase II 12 week 2 × 2 factorial design, double blinded, randomized, placebo-controlled trial. factor in patients with obesity and mild to moderate depressive symptoms: A phase II 12 week 2 × 2 factorial design, double blinded, randomized, placebo-controlled trial.	Dr.Komal Anjum
Age dependent changes in fat and water-soluble vitamins-National Health and nutrition Examination Surveys Study	Dr. Abdul Rauf
Biomarkers for the development and progression of diabetic polyneuropathy	Dr. Ayesha Yasin
Resistance exercise lowers blood pressure and improves vascular endothlial function in individuals with elevated blood pressure or stage-1 hypertension	Dr. Laraib Sajawal
Influence of lifestyle patterns on depression among adults with diabetes: a mediation effect of dietary inflammatory index	Dr. Arbaz
Biochemistry	
Restless leg syndrom relation with iron defciency anemia	Dr. Amina Zahid
The Effects of Gluten on Weight Gain, Hematological, Biochemical, and Various Endocrinological Parameters	Dr. Amina Zahid
Dupilumab as a Promising Treatment for Children with Kimura Disease: A Case Report	Dr. Ummara Aslam
ADVANCEMENTS IN THE STUDY OF GLUCOSE METABOLISM IN RELATION TO TUMOR PROGRESSION AND TREATMENT	Dr. Eiman
BIOMARKERS OF AIRWAY IMMUNE HOMEOSTASIS DIFFER SIGNIFICANTLY WITH GENERATION OF E- CIGARETTES	Dr. Eiman
Nicotinamide Mononucleotide as an anti-aging substance- its promises and safety concerns	Dr. Arfa
Assessment of Genotoxic Potential of Repeatedly heating cooking oil in Wistar Rats	Dr. Raheela Yasmin

Forensic medicine and toxicology	
Applications of metabolomics in forensic toxicology and forensic medicine	Dr. Nimra Faiz
Patricide and overkill: a review of the literature and case report of a murder with Capgras delusion.	Dr. Nimra Faiz
The influence of putrefaction and sample storage on post mortem toxicology results.	Dr. Nimra Faiz
A systematic review on ricochet gunshot injuries.	Dr. Nimra Faiz
Organophosphorus nerve agent poisoning: managing the poisoned patient	Dr. Syeda Zuha Naqvi
Estimation of postmortem submersion interval using total aquatic decomposition scores of human cadavers from Punjab.	Dr. Nimra Faiz
Mechanism of death in hanging: a historical review of the evolution of pathophysiological hypotheses.	Dr. Nimra Faiz
Burned bodies: post-mortem computed tomography, an essential tool for modern forensic medicine	Dr. Nimra Faiz
Prevention of head trauma and death in patients with head injuries: A forensic autopsy study.	Dr. Nimra Faiz
The characteristics of seminal fluid and the forensic tests available to identify it.	Dr. Nimra Faiz
Livor Mortis and Forensic Dermatology: A Review of Death-Related Gravity-Dependent Lividity and Postmortem Hypostasis	Dr. Nimra Faiz
From Laws and Court Rulings to Daily Clinical Practice: The Role of Forensic Experts in Modelling Informed Consent Disclosure for Health Treatment	Dr. Nimra Faiz
Evaluation of Poisoning Trends in Bangladesh: A Forensic Study on the Rising Burden of Arsenic and Pesticide Exposure in Agricultural Communities	Dr. Nimra Faiz

Pharmacology	
Evaluating the Effectiveness of Probiotic Supplementation in Combination with Doxycycline for the Treatment of Moderate Acne: A Randomized Double- Blind Controlled Clinical Trial.	Dr. Hafsa Niazi
Comparison of Helicobacter Pylori Eradication Rates. Levofloxacin - Containing Triple Therapy, Levofloxacin - Containing Bismuth Quardruple Therapy, and Standard Bismuth Quardruple Therapy as a First Line Regimen.	Dr. Rimsha Iftikhar
A study on Evaluation of analgesic protocols in the ED of HIT hospital, Taxila in accordance with WHO pain ladder and NRS guidelines.	Dr. Jawaria Sattar
Semiglutide and Cardiovascular Outcomes in Patients with Type 2 Diabetes.	Mrs. Bushra Taskeen
Compliance to iron folic acid supplementation and its associated factors among pregnant women attending Antenatal clinic in Wondo district: a cross-sectional study.	Dr. Habibah Ishaq
Polypharmacy among the elderly.	Dr. Sabahat Saeed
Knowledge and Awareness of cervical cancer and HPV Vaccination	Dr. Hafsa Niazi
Evaluation of Medication Errors in Pediatric Patients Using Antibiotics	Mrs. Bushra Taskeen
Quality of prescription writing in Brazilian Primary Health Care	Dr. Ayla Babar
Exploring medication adherence and its determinants , among hypertensive diabetic and hyperlipidemia patient in OPD of tertiary care hospital.	Dr. Habibah Ishaq
Concurrent use of polypharmacy and potentially inappropriate medications with antidepressants in older adults: A nationwide descriptive study in Denmark during 2015–2019	Dr. Maryam Rana
Prospective Pain Relative Outcomes and Perioperative Pain Management in China: a population-based study.	Dr. Ayla Babar
Semiglutide and Cardiovascular Outcomes in Patients with Type 2 Diabetes.	Mrs. Bushra Taskeen
Evaluation of Medication Errors in Pediatric Patients Using Antibiotics	Mrs. Bushra Taskeen
Quality of prescription writing in Brazilian health care	Dr. Ayla Babar

Community medicine	
University students' nomophobia prevalence, sociodemographic factors and relationship with academic performance at a university in Oman	Dr Atiya Firdous
A study of Malnutrition problem and its relation ship with students reading writing abilities at the primary school level in tharparkar Sindh Pakistan	Dr Asifa Afzal
Investigation of the relationship between social network usage and sleep quality among university students	Dr Omer Farooq
Prevalence and risk factors of migraine among medical students of Umm Al-Qura University, Makkah, Saudi Arabia	Dr Khadija Zahra
The role of controllable life style in the choice of specialization among Hungarian medical doctors	Dr Nida Rafaqat
Association of Diabetic Health Literacy with Glycemic Control in Type-2 Diabetic Patients visiting HIT Hospital Taxila	Dr Mohsin Raza
Preparing for the future of healthcare: Digital health literacy among medical students in Lahore, Pakistan	Dr Atiya Firdous
Prevalence of stress, Anxiety, and Depression and the impact of a Mindfulness-Based intervention Among Medical Students at HITEC-IMS,Taxila	Miss Izya Taj
Awareness and knowledge of Osteoporosis among Medical Students at a private Medical College in Lahore: An Assessment using the Osteoporosis Knowledge Assessment Tool (OKAT)	Dr Sidra Farooq
The Prevalence risk of anxiety and its associated factors among university students in Malysia: a national cross-sectional study	Dr Sandeed Ali Khan
Prevalence of excessive screen time and its association with developmental delay in children aged <5 years: A population-based cross-sectional study in India	Prof Dr Anwar Bibi
Psychological Empowerment, Innovative Work Behavior and Job Satisfaction	Miss Izya Taj.
University students' nomophobia prevalence, sociodemographic factors and relationship with academic performance at a university in Oman	Dr Atiya Firdous
A study of Malnutrition problem and its relation ship with students reading writing abilities at the primary school level in tharparkar Sindh Pakistan	Dr Asifa Afzal .

Investigation of the relationship between social network usage and sleep quality among university students	Dr Omer Farooq .
Prevalence and risk factors of migraine among medical students of Umm Al-Qura University, Makkah, Saudi Arabia	Dr Khadija Zahra
The role of controllable life style in the choice of specialization among Hungarian medical doctors	Dr Nida Rafaqat
Association of Diabetic Health Literacy with Glycemic Control in Type-2 Diabetic Patients visiting HIT Hospital Taxila	Dr Mohsin Raza
Preparing for the future of healthcare: Digital health literacy among medical students in Lahore, Pakistan	Dr Atiya Firdous
Prevalence of stress, Anxiety, and Depression and the impact of a Mindfulness-Based intervention Among Medical Students at HITEC-IMS, Taxila	Miss Izya Taj
Awareness and knowledge of Osteoporosis among Medical Students at a private Medical College in Lahore: An Assessment using the Osteoporosis Knowledge Assessment Tool (OKAT)	Dr Sidra Farooq
The Prevalence risk of anxiety and its associated factors among university students in Malysia: a national cross-sectional study	Dr Sandeed Ali Khan
Prevalence of excessive screen time and its association with developmental delay in children aged <5 years: A population-based cross-sectional study in India	Prof Dr Anwar Bibi
Psychological Empowerment, Innovative Work Behavior and Job Satisfaction	Miss Izya Taj.
Medicine	
GLP-1 receptor agonist for the treatment of obesity: role as promising approach	Dr. Muhammad Ali
Diabetes as risk factor for MASH progression	Dr. Sahar Hameed
Hypomagnesemia in Critically ill Patients	Dr. Sahar Hameed
Hypoalbuminemia on Admission as an Independent Risk Factor for Acute Functional Decline after Infection	Dr. Muhammad Ali
The prognostic value of mean platelet volume in patients with coronary artery disease: An updated systematic review with meta-analyses	Dr. Kashmala Tariq
Efficacy and safety profile of Glucagon-Like Peptide-1 Receptor Agonist in obese Type-2 diabetes patients from a private institution in Karachi	Dr. Sahar Hameed

Upper Gastrointestinal Bleeding	Dr. Muhammad Ali
A Comprehensive Review of Antiviral Therapy for Hepatitis C: The Long Journey from Interferon to Pan-Genotypic Direct-Acting Antivirals (DAAs)	Dr. Kashmala Tariq
Idiopathic (Genetic) Generalized Epilepsy	Dr. Aroosha Farid
A 27-year-old man with Abnormal behaviors, confusion and seizure	Dr. Hamna
Prevalence of Vitamin B12 Deficiency Among H. Pylori-positive Patients Presenting with Functional Dyspepsia at a Tertiary Care Hospital in Karachi	Dr. Armin Bilqees
Evaluation of efficacy of Bromocriptine as a therapeutic modality in the treatment of diabetes Mellitus: a systematic review	Dr. Kashmala Tariq
Beta-Blockers after Myocardial Infarction without Reduced Ejection Fraction	Dr. Aroosha Farid
Surgery	
Gastric carcinoma – Recent advances in diagnostic biomarkers and biomolecular targeted therapy	Dr. Danish Rauf
Diagnosis and treatment of spontaneous colonic perforation	Dr. Haseeb Ur Rehman
Diathermy versus scalpel incision	Dr. Haseeb Ur Rehman
Colostomy Reversal following Hartman's Procedure	Dr. Danish Rauf
Post Cholecystectomy Syndrome	Dr. Haseeb Ur Rehman
Hydatid cyst in neck – A case report	Dr. Haseeb Ur Rehman
Acute Cholecystitis	Dr. Haseeb Ur Rehman
Intestinal Obstruction	Dr. Danish Rauf
Acute Pancreatitis	Dr. Haseeb Ur Rehman
Skip lesion In distal Femur with recurrent giant cell tumor in proximal Femur	Dr. Rizwan Ashiq

Gynecology & Obstetrics	
Diagnostic laparoscopy and subfertility	Dr. Tanzila Aftab
'FIGO statement on PPIUCD 'published in 2025	Dr Mahwash Jamil
Association between postpartum Anemia & depressive symptoms at 2 months after vaginal delivery: A secondary analysis of the TRAAP Trial''	Dr. Ayesha Akram
Dermatology	
Knowledge, Attitudes, and Practice of Cosmetic Procedures among Population of Majmaah, Saudi Arabia	Dr. Aqsa Naheed
Sequential Treatment with Triple Combination Cream and Intense Pulsed Light is More Efficacious than Sequential Treatment with an Inactive (Control) Cream and Intense Pulsed Light in Patients with Moderate to Severe Melasma	Dr. Aqsa Naheed
Plasma 25-hydroxy vitamin D is not associated with acne vulgaris.	Dr. Aqsa Naheed
Effect of estrogens on skin aging and the potential role of SERMs	Dr. Aqsa Naheed
Aesthetic aspects of skin aging, prevention, and local treatment	Dr. Aqsa Naheed
Single-session intense pulsed light combined with stable fixed-dose triple combination topical therapy for the treatment of refractory melasma	Dr. Aqsa Naheed
The Effect of Selfies on Cosmetic Surgery	Dr. Aqsa Naheed
Adult female acne : a guide to clinical practice .	Dr. Aqsa Naheed
Psoriasis: A clinical update on diagnosis and new therapies	Dr. Aqsa Naheed
Urticaria Treatment & Management	Dr. Aqsa Naheed
British association of Dermatologists guidelines for the management of people with vitiligo	Dr. Aqsa Naheed

Psychiatry & Behavioral Sciences	
The impact of psychological stress on physiological indicators in health care workers	Dr. Hasiba Rasheed
The Effectiveness of AI- based interventions for students with learning disabilities	Dr. Hasiba Rasheed
Four years stability of type D personality in patients with moderate to severe psoriasis and its implications for psychological impairment	Ms. Fatima Assad
Case Studies on the Evolution and Challenges in ASD Diagnosis	Ms. Fatima Assad
Metformin Use on the Risk of Depression and Anxiety in People with Type 2 Diabetes	Dr. Ausaf khan Bangash
Impact of Fluoxetine on obesity and Diabetes related Biomarkers in Overweight and Obese Individuals: A systematic review and Meta-analysis of Randomised Control Trails	Dr. Ausaf khan Bangash
Pathology	
Once weekly semaglutide in adults with obesity and overweight	Dr. Haim Sajid
Real-world effectiveness of influenza vaccine against medically attended influenza infection during 2023/24 season	Dr. Kashif Javed
Impact of baseline Thrombocytopenia on early outcomes in patients with Acute Venous Thromboembolism	Dr. sRadia Amir
Naegleria fowleri: Emerging therapies and translational challenges	Dr. Izza Atif
The Impact of Climate Change on Vector-Borne Diseases: A Public Health Perspective	Dr. Maham Javed
Vitamin B12 deficiency in diabetic patients treated with metformin: A cross-sectional study	Dr.Izza Atif
The impact of long-term potent antiviral therapy on the natural course of disease in patients with hepatitis B virus-related cirrhosis	Dr. Sana

Journal Club Meeting
Dental College HITEC–IMS

Sr.	Department	Title of article	Presented on	Presenter
1	Oral pathology	Architectural dysplasia in surgical margins and the risk of local relapse in oral cancer	03rd October 2024	Dr Ayesha Jabeen
2	Pharmacology	Hyaluronic acid reduces inflammation and crevicular fluid IL-1B concentration in peri-implantitis: A randomized controlled clinical trial.	07th November 2024	Dr Aymen Babar
3	Community Dentistry	Self-assembling eptide and nano-silver fluoride in remineralizing early enamel carious lesions: Randomized controlled trail	05th December 2024	Dr Naufal Nadeem
4	Dental Materials	Glass ionomer cement with calcium-releasing particles: Effects on dentin mineral content and mechanical properties'	02nd January 2025	Dr. Saira Bibi
5	Orthodontics	Presurgical nasoalveolar molding with 3D printing for a patient with unilateral cleft lip, alveolus and palate	06th February 2025	Dr. Sidq Ilyas
6	Physiology	The effect of new trend electronic cigarettes on dental caries in relation to glucosyltransferase B and secretory immunoglobulin A (A case-control study)	06th March 2025	Dr. Alina Qamar
7	Operative Dentistry	Outcome of nonsurgical root canal treatment of teeth with large apical periodontitis lesions: A retrospective study	08th May 2025	Dr. Farhana Altaf
8	General Pathology	Maternal vitamin D status in pregnancy and molar incisor hypo mineralization and hypo mineralized second primary molars in offspring at 7-9 years of age: A longitudinal	03rd July 2025	Dr. Taniya Noor
9	Biochemistry	Assessment of salivary alpha amylase and mucin-4 before and after non-surgical treatment of peri-implant mucositis	07th August 2025	Dr. Tehseen Faisal
10	Orthodontics	A qualitative study of preoperative anxiety in orthognathic patients: The patient	04th September 2025	Dr. Arooba Mehmood
11	Operative Dentistry	Regenerative Endodontic Procedures With Minced Pulp Tissue Graft in Mature Permanent Teeth: A Clinical Study	02nd October 2025	Dr. Zahoor Khan

Section 05

Interest Groups

Subsection 5–A

Faculty Interest Group Medical College Research Projects

List of the research (Faculty) approved by IRB in the year 2025

Ser	Title	Department	Principal Researcher
1	Relationship between Decision Fatigue and Decision Self-Efficacy in Doctors: A Parallel Mediation Study	Psychiatry	Dr. Zahra Shohaib
2	Time To Analgesia and its association with Length Of Stay in the Emergency Department, along with factors influencing them	Accident & Emergency	Dr. Ayesha Saeed
3	Acute Pain Management in Critical Care: Relationship of knowledge and attitude with practice of Pakistani physicians graduated in last five years	Accident & Emergency	Dr. Ayesha Saeed
4	Brain-Derived Neurotrophic Factor and Malondialdehyde as early Biomarkers and indicators of severity in Type-II Diabetic Patients With Peripheral	Physiology	Dr. Ayesha
5	Prevalence of Stress, Anxiety, and Depression and the Impact of a Mindfulness-Based Intervention Among Medical Students at HITEC-IMS	Community Medicine	Miss Izya Taj
6	Effect of zinc supplementation on stool frequency and consistency in acute watery diarrhoea under 5 years	Peadiatrics	Dr. Muzammil Ahmad
7	Wound Infection, Bile Leak,and Bleeding after Laparoscopic vs Open Cholecystectomy in Diabetics: A Comparative Study at HIT Hospital, Taxila	Surgery	Dr. Danish Rauf
8	Assess the awarness of hypertensive disorders of pregnancy; a cross-sectional study among pregnant women	Gynaecology and Obstetrics	Dr. Tahira Jabeen

9	Artificial intelligence-boosted risk assessment for delayed analgesia and comparison of multiple AI-models' performance linked with timely analgesia in emergency department patients	Accident & Emergency	Dr. Ayesha Saeed
10	Efficacy of furosemide and salbutamol in treatment of transient tachypnea of new born	Peadiatrics	Dr. Fazila Shah
11	Association of glycemic control with hepatopathy in patients with T2DM	Biochemistry	Dr. Sana Umer
12	Effect of bromocriptine on glycemic control in type ii diabetic patient on metformin	Medicine	Dr. Kashmala Tariq
13	Development of High Risk Prediction Score For Undiagnosed type 2 diabetes mellitus and its Association with Social Determinants in Pakistan Population	Pathology Department	Dr. Wajiha Mahjabeen
14	Association of Triglyceride Glucose index and Albuminuria in relation to blood pressure in patients with uncontrolled Type 2 diabetes mellitus	Pathology Department	Dr. Wajiha Mahjabeen

Subsection 5–A

Faculty Interest Group Dental College

Ongoing Projects

Sr.	Departments	Title of Article(s)	Author(s) Name
1	Anatomy	1. Histological and functional aspect of co-enzyme Q-10 and L carnitine in remyelination of white matter in rat model in multiple sclerosis.	Dr. Ayesha Shahid
2	Physiology	1. Comparison of the effect of Dehp and ToTM.	Dr. Ayesha Zafar
3	Pharmacology	1. Clinical attachment level post periodontal treatment in diabetic patients with or without topical antibiotics-Randomized controlled trial. 2. Comparing efficacy of topical antibiotics in diabetic periodontitis patients in relation to HbA1c Randomized controlled trial. 3. Clinical attachment level post periodontal treatment in diabetic patients with or without topical antibiotics-Randomized controlled trial.	Dr. Shahzana Rana Dr. Aeman Chaudary
4	Biochemistry	1. Association between COMT gene polymorphism (rs4680) and familial incidence of temporomandibular disorders: A case control study. 2. Clinical attachment level post periodontal treatment in diabetic patients with or without topical antibiotics-Randomized controlled trial.	Dr. Naila Zakria
5	Community and Preventive Dentistry	1. Aligning assessment with teaching: A cross-sectional comparative study on effectiveness of integrated assessment in integrated teaching for dental students. 2. Bridging theory and practice: impact of a research module on 2nd year BDS learning outcomes. 3. Fostering empathy in dental students through emotional intelligence, empathy and effective communication workshops: A quasi-experimental study. 4. Problematic social media use, aggression and academic procrastination among dental students at HITEC IMS: A cross-sectional study. 5. The role of emotional intelligence in the relationship between self-directed learning and academic achievement among dental students: A cross-sectional analysis. 6. Effect of tell-do-show (verbal + visual) education versus routine care on anxiety and cooperation in children aged 5-15 undergoing routine dental procedures: A randomized controlled trial using MCDAS.	Dr. Amna Faisal

6	Dental Education	1. Perceptions of stakeholders regarding the quality in medical education & identification of organizational culture. 2. Assessing knowledge, adherence and barriers to cross infection control measures among dental students: A mixed method approach." 3. Evaluation of the transition from dental amalgam to alternative restorative materials at HITEC dental college. 4. A cross-sectional study on the knowledge, perceptions, and oral health effects of vaping among dental students and practitioners at HITEC. 5. Perception, awareness, and attitude toward digital dentistry among dental students and house officers at HITEC dental college. 6. Comparison of stress levels between dental students and practitioners when treating patients with dental anxiety. 7. Prevalence of dental caries in different blood groups among the students of dental college HITEC-IMS. 8. Improving sharp object injury management among clinical dental students at HITEC: A longitudinal study of a multimedia educational intervention. 9. Analysis of causes of root canal treatment failure in patients attending HITEC-IMS dental hospital. 10. Self-medication practices for dental caries-associated toothache among adults. 11. Smart diagnosis in oral medicine: comparing ai and undergraduate insight using chatgpt-4o. 12. Awareness and perception of AI among dental students at HITEC dental college: A cross-sectional study. 13. Perceptions of stakeholders regarding the quality in medical education & identification of organizational culture. 14. Beyond knowledge: How metacognitive awareness shapes clinical judgement among final year medical students. 15. Attitudes of healthcare teachers toward online teaching in Pakistan: A mixed-methods study. 16. Beyond words: Non-verbal communication in the undergraduate medical education classroom. 17. Bridging the educational gap: Comparative assessment of awareness, attitude, and practices toward sustainable dentistry among dental professionals and students. 18. Awareness and perception of AI among dental students at HITEC dental college: A cross-sectional study. 19. Perceptions of stakeholders regarding the quality in medical education & identification of organizational culture.	Dr. Faizan Munir Khan Dr. Fatima Rizwan

7	Oral Biology	1. Systematic classification of anatomical variations in teeth: Implications for complexities in simple extractions. 2. Comparing the effectiveness of horizontal and vertical peer-assisted learning strategies with expert-assisted learning in promoting student engagement in dentistry. 3. Assessment of knowledge and adherence to infection control guidelines among dental practitioners in twin cities of Punjab: A cross-sectional study. 4. Nanofibrous scaffold containing platelet rich plasma coupled with Photobiomodulation Therapy induce osteoblasts differentiation 5. Berberine-incorporated electrospun nanofibrous scaffold induce osteoblast cells proliferation	Dr. Saman Malik Dr. Sajida Fareed
8	Oral Pathology	1. Clinicopathological and Demographic profile of salivary gland tumors: A 10-year Retrospective study at Islamic International Dental Hospital 2. Comparison of Salivary Matrix Metalloproteinase-8 Levels in Periodontitis Patients with and Without Type 2 Diabetes Mellitus	Dr. Rabia Masood Dr. Saleha Saeed
9	Prosthodontics	1. Correlation between TMD, oral parafunction and psycho-emotional stresses based on RDC/TMD diagnosis among dental students. 2. Comparison of maxillary anterior mathematical proportions among 3 dental arch forms.	Dr. Sameen Zehra
10	Orthodontics	1. Comparison of Beta and ANB angles for determination of Sagittal skeletal discrepancy in Class II Malocclusion. 2. Assessment of reliability of digitalized cephalometric analysis using webceph. 3. Assessment of Orthodontic treatment need in adolescent population using IOTN: A multi-center cross sectional study. 4. Association of temporomandibular disorders with malocclusion complexity using Index of Complexity, Outcome and Need. A case control study.	Dr. Muhammad Hasnain & Dr. Shahzonia Tariq

11	Periodontology	1. Efficacy of olive oil pulling compared with standard oral hygiene in gingivitis: A randomized controlled trial	Dr. Syed Shahan Haider
12	Paediatric Dentistry	1. A comparison of silver diamine fluoride with sodium hypochlorite as a root canal irrigant in permanent molars. Randomized control study.	Dr. Amna Riaz
13	Operative Dentistry	1. Effect of SDF on arrest of enamel caries in adults reporting at HITEC Dental College. 2. Assessment of post operative pain in teeth obturated with bioceramic sealer & calcium hydroxide sealer: a randomized clinical trial. 3. Comparison of different intracanal medicaments on post operative pain in teeth with symptomatic apical periodontitis: a randomized controlled trial. 4. Comparison of combined effect of oral medications on enhancing the effectiveness of inferior alveolar nerve block in mandibular teeth with symptomatic irreversible pulpitis.	Dr. Beenish Qureshi
14	Oral and Maxillofacial Surgery	1. Feedback and hidden curriculum in dental clinical settings.	Dr. Maimoona Siddiq

Subsection 5–B

POSTGRADUATE TRAINEES RESEARCH PROJECTS
DENTAL COLLEGE HITEC–IMS

Sr.	Title of Publication	Authors Name	Journal	Coauthors and name of institution
1	Comparison of post operative pain and periapical healing following regenerative endodontics using platelet rich plasma vs conventional root canal treatment in mature single rooted teeth.	Dr. Fatimah Arshad		
2	Efficacy of metronidazole and minocycline gels in the management of periodontitis in diabetic patients: A comparative study.	Dr. Sidq Ilyas	Pakistan Journal of Physiology	1. **Aeman Choudhary** Assistant Professor Pharmacology, Dental College, HITEC-IMS, Taxila, Pakistan 2. **Akbar Waheed Saeed** Department of Pharmacology, Islamic International Medical College, Riphah University, Islamabad, Pakistan 3. **Uzma Naeem** Pharmacology Department, Islamic International Medical College, Riphah University, Islamabad, Pakistan 4. **Jawaria Iftikhar** Department of Pharmacology, Islamic International Medical College, Riphah University, Islamabad, Pakistan 5. **Farzana Munir** Department of Pharmacology, Akhtar Saeed Medical College, Islamabad, Pakistan

Sr.	Title of Project	Authors Name
1	Effect of silver diamine fluoride on arrest of enamel caries in adults reporting at HITEC dental college	Dr. Kinza Iftikhar
2	Evaluation of post operative pain after using two different irrigation systems- A randomized controlled trial	Dr. Farhana
3	Comparison of different intracanal medicaments on post-operative pain in teeth with symptomatic apical periodontitis: A randomised controlled trial	Dr. Fatimah Arshad
4	Comparison of pharyngeal airway dimensions between class II hypodivergent and hyperdivergent patient after twin-block treatment	Dr. Sidq Ilyas

Subsection 5–C

HOUSE OFFICERS ONGOING RESEARCH PROJECTS
DENTAL COLLEGE HITEC–IMS

Sr.	Title of Project	Authors Name
1	Knowledge and awareness of dental practitioners about the utilization of endocrown in post- endodontic management	Dr. Aqsa Nadeem & Dr. Jaweria Sarwat
2	Prevalence and predictors of Depression, Anxiety and Stress symptoms among dental students at Dental college HITEC IMS. A comparative cross sectional study during pre-exam and exam periods	Dr. Syeda Rida Zahra. Dr. Arshia Shaukat & Dr. Suman Zehra
3	Attitude of dental professionals towards newer dental materials and technologies.	Dr. Osama Ahmed
4	Oral health knowledge, self-assessed oral health behavior, and oral hygiene practices among the adult general population in Taxila	Dr. Muhmmad Umer Farooq
5	Effect of acne medication isotretonin on health of gingiva	Dr. Amna Laraib
6	1. Comparative assessment of awareness, attitude, and practices towards sustainable dentistry among dental professionals and students- bridging the educational gap. 2. Knowledge, attitude and practice towards oral hygiene among adult patients attending dental service in dental hospital, HITEC-IMS, Taxila	Dr. Jaweria Bukhari
7	Determine the effects of throxine replacement therapy on the periodontium of hypothyroid patients	Dr. Tayaba Mahnoor
8	A knowledge attitude and practice survey on the methodology followed in the fabrication of fixed partial denture among final year and house officers of HITEC-IMS dental college.	Dr. Shabih Zahra

Subsection 5-D

Message ot the members of Student Research Socity

President, Student Research Society (SRS), HITEC IMS

Muhammad Moeed Azhar Bhatti Final Year MBBS

Serving as the President of the Student Research Society at HITEC IMS has been an immensely enriching journey. This role has taught me the true essence of leadership, teamwork, and academic collaboration. Working alongside dedicated students and faculty has strengthened my commitment to promoting a culture of curiosity, innovation, and evidence- based learning on campus. Through organizing research activities, mentoring junior students, and leading academic initiatives, I have not only grown as a researcher but also as a person. This experience has shaped my vision for empowering students to become confident, independent thinkers who contribute meaningfully to the scientific community. It has been a privilege to lead such a vibrant and passionate team.

Vice President, Student Research Society (SRS), HITEC IMS

Noor-ul-Eman Final Year BDS

“What we know is a drop, what we dont know is an ocean.” (Sir Isaac Newton)
Growth truly begins when we choose curiosity over comfort. My time in research society has taught me that innovation isn’t about being perfect — it’s about being willing to explore, experiment, and learn. When we allow ourselves to stay curious and open, that’s when real progress happens. May we continue to support one another, celebrate knowledge, and carry forward the spirit of knowledge that defines HITEC-IMS. Together let us keep moving towards greater discoveries, better ideas, and a future shaped by dedication and passion.

General Secretary, Student Research Society (SRS), HITEC IMS

Areej Khalid 4th Year MBBS

As General Secretary of the SRS, I have had the privilege of witnessing firsthand the curiosity and dedication that define our student body. Each year, our students’ enthusiasm and new ideas bring innovation to our campus, this year being no exception. We organized our first ever international research conference at HITEC-IMS, and I am both proud and grateful to every student that stepped forward to contribute to our society’s progress.]I look forward to another year of hard work and success.
It was an honor to have been part of this team.

Joint Secretary, Student Research Society (SRS), HITEC IMS

Hajra Bibi

My journey with the Student Research Society at HITEC IMS has been truly transformative. This role has allowed me to experience the real spirit of leadership, teamwork, and academic collaboration. Working with passionate students and supportive faculty has strengthened my resolve to promote a culture grounded in curiosity, innovation, and evidence-based learning.
Through organizing research activities, mentoring junior members, and actively contributing to academic initiatives, I have grown both personally and professionally. These experiences have shaped my vision of empowering students to become confident, independent thinkers who meaningfully contribute to the scientific community. It has been an honor to serve alongside such a dedicated and vibrant team.

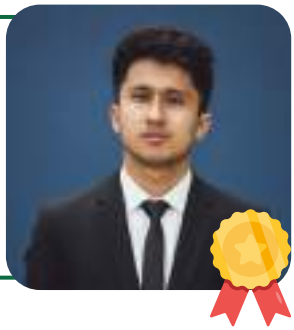
Subsection 5-D

My Journy through HITEC-IMS

Dr. Shaheer Abdullah (HITEC-IMS Graduate of 2023)

Lecturer Anatomy Department HITEC-IMS

Total Publication 03



As a former student of HITEC Institute of Medical Sciences and currently a Lecturer in the Department of Anatomy, I have experienced the institution's strong commitment to academic growth and research firsthand. My journey into research began during my student years at HITEC IMS, where a supportive and encouraging environment played a vital role in developing my interest in scholarly work. The guidance and mentorship provided by senior faculty members and seniors helped me progress from initial research ideas to successfully publishing articles.

I worked on a few researches with my research on Cardiometabolic syndrome alongside my classmates and college fellows due to my strong interest in preventative medicine and cardiometabolic health. With guidance and support from my seniors and faculty of HITEC IMS, I contributed actively to literature review, data interpretation, and drafting the manuscript. This collaborative effort enabled us to successfully publish the article in the Multidisciplinary Surgical Research Annals, gaining valuable experience in academic writing and research publication.

The availability of research-oriented facilities and a culture that promotes collaboration allowed me to work effectively on various projects. This collaborative learning experience made research both productive and enriching. The exposure I gained during my student years has continued to shape my academic path, and it has further strengthened my enthusiasm to pursue and contribute more actively to research alongside my teaching role.

Subsection 5-D
Achievements of the students HITEC-IMS

Ser	Competitions	Date / Venue	Names		Positions
1	**Consolation prize of 10000 rupees in 1st Research conference**	**2nd June 2025 CMH Multan**	a. Mohammad Moeed Azwar Bhatti		1st
2	**First International Research Conference Hitec - IMS**				
	Poster Presentation	**27th May 2025 HITEC-IMS**	a. Abu Huraira b. Muhammad Ammar c. Rameen Asim d. Shabeeh Haider	**Venue 1**	1st
			a. Muhammad Amir b. Areeqa Chaudhary c. Mohammad Moeed Azwar Bhatti	**Venue 2**	
			a. Fatima Hafeez b. Amna Azam Chaudhary		2nd
			a. Muhammad Saarym b. Umair Ishfaq		3rd
	Verbal Presentation Competition		a. Dr Ayesha Saeed		1st
			a. Muhammad Shunwaiz Sultan b. Hania Naeem		3rd
3	**Poster Presentation**	**1st Oct 2025 Fazaia Medical College**	a. Furqan Basim (Researcher) b. Ayesha Sher (Presenter) c. Hafsa Aslam (Presenter)		2nd
4	**Student IRB Total**				**21**

Subsection 5–D
Student Rewards

Second International Medical Research Conference, held on 20th September 2025 at Bacha Khan Medical College, Mardan.
Award: First Position
Category: Poster Presentation
(Original Studies) Research Topic:
"The Association of Awake Bruxism with Tooth Wear and Occupational Stress among Mechanical and Non-Mechanical Workers."

Winner team:

Fatima hafeez
Adeena Ayesha
Afrah ashraf

Subsection 5-D
Student Rewards

CMH Multan scholar's day 25
Consolation prize of 10000 in oral presentation (solo presenter)

HITEC IMS research conference
Topic: PARENTAL KNOWLEDGE, ATTITUDE, AND PERCEIVED CHALLENGES FOR TIMELY INFANT IMMUNIZATION: AN EPI CENTER BASED CROSSECTIONAL SURVEY.

1st position in poster presentation (M.Moeed Azwar Bhatti, Muhammad Amir, Areeqa Chaudhary)

Subsection 5-D

My Journy through HITEC-IMS

Mishal Khan

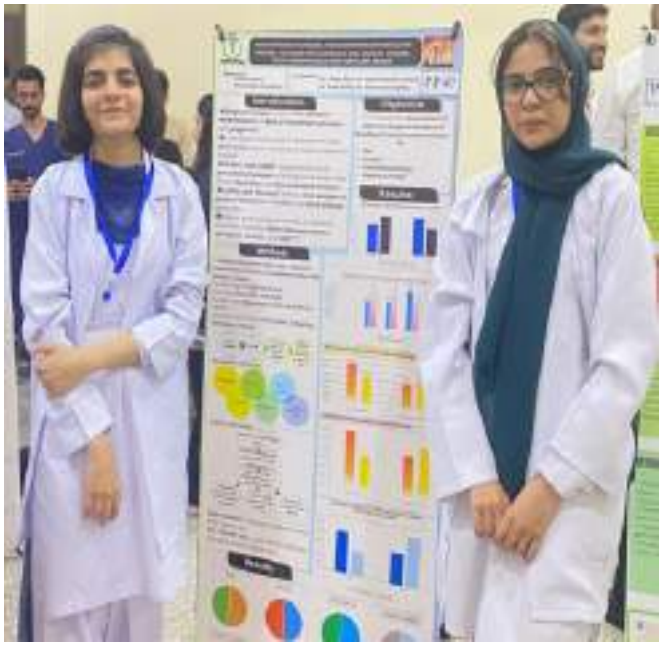
3rd Year BDS Dental College HITEC-IMS

I am Mishal Khan, a third-year BDS student at Dental College HITEC-IMS and a proud member of the Student Research Society. My academic journey in dentistry has been shaped not only by clinical learning but also by a growing passion for dental research. My interest in research began during my second year of BDS, when I realized that dentistry extends far beyond textbooks and clinical procedures. I became deeply interested in understanding the scientific foundation behind dental practices and the crucial role research plays in advancing oral healthcare and patient safety. I had the opportunity to work on an original research project, which became a defining milestone in my undergraduate journey. Under the valuable guidance and mentorship of Dr. Fatima Rizwan from the Department of Dental Education, I gained hands-on experience in research methodology, data analysis, and scientific writing. My research, titled “Assessing Knowledge, Adherence, and Barriers to Cross-Infection Control Measures Among Dental Students: A Mixed-Methods Study,” was successfully published in the international journal J-STEAM. This research holds significant importance in the academic and clinical research world, as it highlights existing gaps in infection control practices, identifies barriers faced by dental students, and emphasizes the need for stronger educational strategies to ensure patient and clinician safety. In an era where infection prevention is central to healthcare quality, such research contributes to improving standards, awareness, and evidence-based dental education. Through my research efforts, I aim to make my college proud and contribute positively to the field of dental research. I strongly believe that undergraduate research plays a vital role in shaping confident, knowledgeable, and forward-thinking dental professionals. As I continue my journey, I hope to remain actively involved in research and inspire fellow students to explore this rewarding path alongside their academic and clinical training.

Students Interest Group Dental College Research Projects

POSTER PRESENTATION AT 1St INTERNATIONAL RESEARCH CONFERENCE HITEC IMS 2025

Aamna Azam Chaudhary and Fatima Hafeez, students of Third Year BDS at HITEC Dental College, presented a research poster titled “Association of Gingival Tissue Biotypes of Maxillary Central Incisors with Different Age Groups, Gender, Tooth Morphology, and Papillary Height.”
The study focused on evaluating the relationship between gingival tissue biotypes and key demographic and anatomical variables, emphasizing its clinical significance in esthetic dentistry and periodontal treatment planning. The research was appreciated for its methodological clarity and clinical relevance.
The poster secured second position in the competition and was awarded a souvenir set along with a cash prize of Rs. 3,000, reflecting the presenters’ commitment to academic excellence and the high research standards of HITEC Dental College.



Students Interest Group Dental College Research Projects

2nd International Medical Research Conference at Bacha Khan Medical College, Mardan

Fatima Hafeez, Adeena Ayesha, and Afrah Ashraf, under the supervision of Dr. Sameen Zehra, secured first position in the Poster Presentation (Original Studies) category at the 2nd International Medical Research Conference, held on 20th September 2025 at Bacha Khan Medical College, Mardan.
Their research, titled “The Association of Awake Bruxism with Tooth Wear and Occupational Stress among Mechanical and Non-Mechanical Workers,” investigated the relationship between occupational stress and the prevalence of awake bruxism, with particular emphasis on its impact on tooth wear patterns across different occupational groups. The study was recognized for its methodological rigor, clinical relevance, and meaningful contribution to the understanding of behavioural and occupational factors influencing oral health.

In the same conference, Filza Haider, Muniba Younas, and Fatima Manzoor, under the supervision of Dr. Saman Malik, presented a poster titled “Systematic Classification of Anatomical Variations in Teeth: Implications for Complexities in Simple Extractions.” Their work highlighted the clinical significance of anatomical tooth variations and their implications for dental extraction procedures, contributing valuable insights to dental practice and education.

Students Interest Group Dental College Research Projects

Poster Presentation at the International Research Conference 2025, Fazaia Medical College, Air University, Islamabad

Muniba Younas and Amna Azam Chaudhary, under the supervision of Dr. Azka Haroon, presented a research poster titled “Prevalence of Periodontal Diseases During the Three Trimesters of Pregnancy” at the International Research Conference 2025, held on 1st October 2025 at Fazaia Medical College, Air University, Islamabad. The experience provided an excellent platform to engage with judges and fellow participants, offering valuable feedback and fostering academic discussion. Participation in various workshops and lectures during the event further enriched their learning experience and contributed to the enhancement of their research knowledge and skills.

At the same conference, Adeena Ayesha and Fatima Hafeez, under the supervision of Dr. Sameen Zehra, presented a research poster titled “The Association of Awake Bruxism with Tooth Wear and Occupational Stress among Mechanical and Non-Mechanical Workers.” Representing HITEC Dental College, Taxila, the presenters received commendation for the originality, methodological rigor, and academic merit of their study.

Students Interest Group Dental College Research Projects

Poster Presentation at Smile'Con'25 Dental Summit

Under the supervision of Dr. Azka Haroon, Aamna Azam Chaudhary (Presenter) and Fatima Hafeez presented a research poster titled “Prevalence of Periodontal Diseases in Different Trimesters of Pregnancy” in the Poster Competition at the Smile’Con’25 Dental Summit, held on Thursday, 22nd May 2025, at the HITEC Institute of Medical Sciences, Taxila. The study examined the association between various stages of pregnancy and periodontal health and was awarded second position, along with a cash prize of Rs. 10,000, in recognition of its clinical relevance and research quality.
In the same event, also under the supervision of Dr. Azka Haroon, Adeena Ayesha and Khawaja Muhammad Taha Shafique participated and secured third position for their submission.
Their research, titled “Association of Aphthous Ulceration with Psychological Stress during Exams among Dental Students of HITEC IMS,” explored the relationship between examination-related psychological stress and the prevalence of aphthous ulceration among dental students. The study was commended for its methodological clarity and relevance to oral health research, reflecting the researchers’ commitment to scientific inquiry and evidence-based practice.

Students Interest Group Medical College

S.No.	Title	Researcher
1	Role of Hematologic Markers and Coagulation Parameters in Metastasis of the Patients of IMC and HIT Hospital, Islamabad& Taxila	Rao Omer Farooq (4th Year MBBS Student)
2	Prevalence and Correlation of TGI and Gallstones in patients of HIT Hospital Taxila	Zoha Tariq (4th Year MBBS Student)
3	Impact of social media on sleep quality among the medical students of hitech IMS Taxila cantt	Syed Abdul Saboor Ali (4th Year MBBS Student)
4	Prevalence of migraine, Contributing Factors, and its Impact among Medical Students at HITEC-IMS, Taxila: A Cross-Sectional Study	Batch-1 (Community Medicine)
5	Assessing the effect of Premenstrual Syndrome on the Quality of Life of Female Medical Students in Medical Colleges of Islamabad and Rawalpindi	Rao Omer Farooq (4th Year MBBS Students)
6	Assessment of the perceived stress and its effect on sleep among medical house officers	Huzaira Riaz (Final Year MBBS)
7	Knowledge, Awareness and Attitude towards Pap smear screening for Cervical Cancer among Medical and Dental students	Marwah Noor (4th Year MBBS Student)
8	Impact of Stress on Burnout and Job Satisfaction Among Healthcare Professionals at HITEC Institution: Cross-Sectional Study	Dr. Isra Shahkeel (House Officer)
9	Awareness of H. Pylori related peptic ulcer among medical students	Alishba Suleman (Final Year MBBS)
10	Fast Food and Sugar-Sweetened Beverage Consumption Patterns and its Associated Factors among Medical Students at HITEC-IMS, Taxila: A Cross-Sectional Study	Batch D (Community Medicine)

11	Examining Burnout's Impact on Time Management and Academic Performance in HITEC IMS Medical and Dental Students	Areej Khalid (4th Year MBBS Students)
12	Prevalence of malnutrition and its association with academic performance among 6–12-year-old school going children using who z-scores (bmi for age)."	Batch C-1 (Community Medicine)
13	Career Decision Making Stress and its Association with Emotional Intelligence among Medical Undergraduates at HITEC-IMS Taxila Cantt	Batch D (Community Medicine)
14	Comparing the Efficacy of Soleus Pushup and Novel Exercise Intervention on Glycemic Control in Type 2 Diabetic Patients: A Randomized Controlled Trial.	M. Moeed Azwar Bhatti (Final Year MBBS Student)

Students Interest Group Dental College Research Projects

S.No.	Title	Students	Supervisor	Status
		FINAL YEAR BDS		
1	Relationship of blood group with dental caries	Maryam zia Malaika Habib Umm-e-Hani Urwa Nasir Sara hassan	Dr. Ayesha Jabeen Dr. Amna Yasin	Accepted for Publication
2	Efficacy of olive oil pulling compared to standard oral hygiene in gingivitis: A Randomized Control Trial	Noor-ul-Eman, Riwa Amjad, Noor, Maryum Zia	Dr. Shahaan Dr. Zuleikha	Data Collection
3	Comparison of knowledge, attitude and Preception towards Radiation Hazards and Protection among Dental Staff and House Officers	Umme Hani Urwa Nasir Sara hassan Mishal	Dr.Fatima Rizwan	Data Collection
4	Assessing the relationship between Oral Health Literacy and Dental Anxiety among Dental Patients- A Cross Sectional Study	Adeena Ayesha, Mian Muhammad Ans, Pakeeza Hassnain, Nimra Mumtaz, Fatima Sughra, Taha Shafique	Dr. Shahreen Zahid Khan	Synopsis
5	Evaluation of the Transition from amalgam to alternative restorative materials at Dental College HITEC-IMS	Umme Hani Sara Hassan Urwa Nasir	Dr.Fatima Rizwan	Data Collection
6	Analysis of causes of root canal treatment failure in patients attending HITEC-IMS dental hospital	Maryum Zia Noor ul Eman Tayyaba Mahnoor	Dr.Fatima Rizwan	Data Collection
7	Evaluate the effectiveness of a structured educational program in improving knowledge, attitude, practice and prosthesis cleanliness	Arrab Omama Haider Haseeb	Dr.Sameen Dr.Fatima	Data Collection
8	Evaluation of transition from amalgam to alternative restorative materials	Umme Hani Aima Omer Ummara Asif Marrium Mansoor Adeeba Zubair	Dr. Fatima Rizwan	Data Analysis

9	Assessment of Patient attitude and Habits Regarding Removable Denture Home Hygiene and their Correlation with Prosthesis Cleaning: A Cross Sectional Study	Haider Ali Awan Arrab Omama	Dr.Sameen Zehra	Data Collection
THIRD YEAR BDS				
10	Assessing the effects of dental aesthetics on psycho social wellbeing among the students of HITEC IMS Taxila; A Cross-sectional study	Fatima Manzoor Muniba Younas Filza Haider Adeena Ayesha	Dr. Azka Haroon	IRB done
11	Role of social media in dental health promotion and behavioral change in Taxila	Izza Fatima Eman Farooq Afridi Ayesha Irshad Fajar Islam Adeena Ayesha	Dr. Azka Haroon	IRB done
12	Effectiveness of Self-Medication Practices for Dental Caries associated tooth ache among Adults	Muniba Younas Afrah Ashraf Fatima Manzoor Filza Haider	Dr.Fatima Rizwan	IRB done
13	Smart Diagnosis in Oral Medicine: Comparing AI and Undergraduate Insight Using Chat GPT-5	Ayesha Hammad Marriam Zafar Tasmia Ghazanfar Tayyab Nadeem Fatima Hafeez	Dr.Fatima Rizwan	Data Collection
14	Awareness, perception and attitude towards digital dentistry among dental students	Aaiza Asim, Uswa Saeed, Ifrah Khalid	Dr.Fatima Rizwan	Data Collection
15	Impact of Multimedia Educational Intervention on Sharp Object Injury Management among Clinical Dental Students at HITEC	Pakeeza Hasnain Wajiha Batool Khatak Tabia Saleem Amna Azam	Dr.Fatima Rizwan	Data Collection

16	A Multicenter Survey Using Validted Tool to Assess the Contribution of Non-Dental Professionals to Oral Health Support Among Children with Special Needs	Fatima Hafeez Adeena Ayesha	Dr.Faiqa Hassan	IRB done
17	Rising awareness of the impact of vaping on oral health: A public health initiative	Taha Shafique Ali Rehan Wajiha Fatima Eman Hasrat	Dr.Fatima Rizwan	Data Collection
18	Assessing knowledge, adherence and barrier to cross infection control measure among dental students	Mishal Khan Saba Shehbaz Mahnoor Fatima Musfirah Ishaq	Dr.Fatima Rizwan	Article writing
19	Awareness and perception of Artificial Intelligence among dental students at HITEC Dental College-A cross-sectional survey	Tayyab Nadeem	Dr.Fatima Rizwan	Data Collection
20	Assessing the relationship between oral health literacy and dental anxiety in dental patients	Adeena Ayesha Nimra Mumtaz Fatima Sughra Khan Pakeeza Husnain Taha Shafique Anas Nadir (House Officer)	Dr.Fatima Rizwan	Data Collection
21	Preception, Awareness and Attitude Towards Digital Dentistry among Dental Students and House Officers at HITEC-Dental College	Aiza Asim Uswa Saeed Ifrah Khalid	Dr.Fatima Rizwan	Data analysis and write-up

Section 06

Star Researchers

"Research turns curosity into Knowledge"

Section 06

Star Reachers

Medical College HITEC–IMS

Star Researcher (On the Basis of No. of Citations Year 2025)

Researcher name	No of citations in 2025	H-Index
Dr. Mahwash Jamil	222	5
Dr. Wajeeha Mah Jabeen	113	10
Dr. Farhat Abbas	62	15
Dr. Aashi Ahmed	22	6
Dr. Shahida Mushtaq	16	3

Eminent Researcher of HITEC–IMS Medical College (On the basis of No. of Publications in PMDC & HEC recognized journals as Principal & 2nd Author)

Researcher	No of publications
Dr. Alia Zubair	2 (As Principial Author)
Dr. Anwar Bibi	2 (1 As Principial Author & 2nd as Second Author)

Distinguished department on the basis of No. of published departmental research projects in PMDC & HEC recognized journals Year 2025

Department	No of publications
Community Medicine	3
Pathology	2

Section 06
Star Reachers
Dental College HITEC–IMS

Star Researcher (On the Basis of No. of Citations Year 2025)

Star Researcher	Citation / H-index
Dr Amna Riaz	Citation:117, H-index :5
Dr. Rabia Masood	Citation: 60, H-index :4
Dr. Nida Zehra Bano	Citation: 57, H-index :4

HITEC

Institute of Medical Sciences Taxila

Section 07
Interview with
Research scholar

Dr. Mahwash Jamil
Professor Of Gynae / Obstetrics HITEC–IMS

Total Publication - 17
Total Citations-1870
H-Index - 5

1. Could you briefly introduce yourself and your research background?

I am Dr. Mahwash Jamil, Professor of Obstetrics and Gynaecology, member of institutional review board, and Managing Editor of the college journal. Over the course of more than two decades in clinical practice and academia, I have consistently sought to strengthen my research foundation through formal training. Early in my career, I undertook a workshop on research methodology, biostatistics, and dissertation writing, which laid the groundwork for my scholarly pursuits. This was later complemented by advanced engagements such as courses in quantitative and qualitative research, training in SPSS for statistical analysis, and the Introduction to Principles and Practice of Clinical Research, course on biostatistics and CITI certification in research. These experiences have not only refined my own research skills but also enabled me to mentor colleagues and students in adopting rigorous and internationally benchmarked methodologies.

2. What is the primary focus of your research?

My research spans both clinical and educational domains. In obstetrics and gynaecology, I have contributed to studies on maternal health, labor management, and pregnancy complications, while in medical education my focus has been on simulation-based training, curriculum innovation, and enhancing transparency in academic publishing.

3. What challenges have you faced in conducting research, and what strategies have you used to overcome them?

Balancing the demands of clinical practice with research commitments has been a recurring challenge. To address this, I have relied on structured time management, collaborative teamwork, and the integration of digital tools.

4. What are your future research goals and aspirations? Are there any emerging trends or key areas of interest in your field?

Looking ahead, I aspire to further integrate digital innovation and AI-assisted tools into research and publishing, ensuring our platforms meet global standards of transparency and accessibility. I am committed to expanding collaborative research networks and mentoring young scholars in evidence-based practices. Emerging trends such as open-access publishing, AI-driven analytics, and simulation-enhanced clinical training are areas I am particularly keen to explore, as they hold transformative potential for both education and healthcare delivery.

Prof Dr Rabia Masood
Head Of Oral Pathology

Total Publication - 28
Total Citations- 58
H-Index - 4

Q1. Could you briefly introduce yourself and your research background?

I am a professor and Head of Oral Pathology at HITEC-IMS Dental College, with a research background rooted in oral histopathology and diagnostic reasoning. My published articles have explored diverse aspects of oral pathology, including diagnostic challenges, histological variations, and the integration of digital tools into pathology education. These works reflect a consistent commitment to advancing evidence-based practice and improving diagnostic accuracy. Alongside traditional histopathology, I have also contributed to the academic discourse on digital pathology, emphasizing Whole Slide Imaging and its potential to transform teaching and research.

Q2. What is the primary focus of your research?

The central focus of my research has been twofold:

- Oral histopathology and diagnostics: Publishing articles that address diagnostic dilemmas, rare lesions, and histological patterns to enrich the literature and guide clinical practice.
- Digital pathology and education: Documenting the role of digitization in enhancing accessibility, teaching, and collaborative learning.

Moving forward, I am expanding this focus to include systematic reviews and meta-analyses, which will synthesize existing evidence and provide stronger, more generalizable conclusions for oral pathology and dental education. This shift reflects my commitment to elevating the quality of evidence available to practitioners and educators.

Q3. What Challenges have you faced in conducting research, and what strategies have you used to overcome them?

- Challenge: Limited high-quality, consolidated evidence in oral pathology.

Strategy: By publishing original research and now planning systematic reviews, I aim to bridge gaps in the literature and provide comprehensive, evidence-based insights.

- Challenge: Methodological rigor in reviews and meta-analyses.

Strategy: I am investing time in mastering advanced review methodologies, including PRISMA guidelines, robust search strategies, and statistical synthesis techniques, ensuring that future reviews meet international standards.

- Challenge: Access to diverse databases and full-text articles.

Strategy: I leverage institutional collaborations, digital repositories, and interlibrary networks to ensure comprehensive coverage of the literature.

Q4. What are your future research goals and aspirations? Are there an emerging trends or key areas of interest in your field?

My future research goals are increasingly oriented toward systematic reviews and meta-analyses in oral pathology and dental education. These will:

- Consolidate fragmented evidence into authoritative resources.
- Identify diagnostic patterns and prognostic markers with stronger statistical backing.
- Guide curriculum development by highlighting evidence-based teaching strategies.
- Support clinical decision-making with synthesized data on rare and complex lesions.

Emerging trends and key areas of interest:

- Evidence synthesis: Systematic reviews and meta-analyses becoming the gold standard for academic and clinical guidance.
- AI-assisted literature mining: Using artificial intelligence to streamline review processes and detect hidden patterns in large datasets.
- Global collaboration: Multi-institutional reviews that expand the scope and generalizability of findings.
- Integration with digital pathology: Combining systematic evidence with digital slide repositories to create interactive, evidence-based teaching platforms.