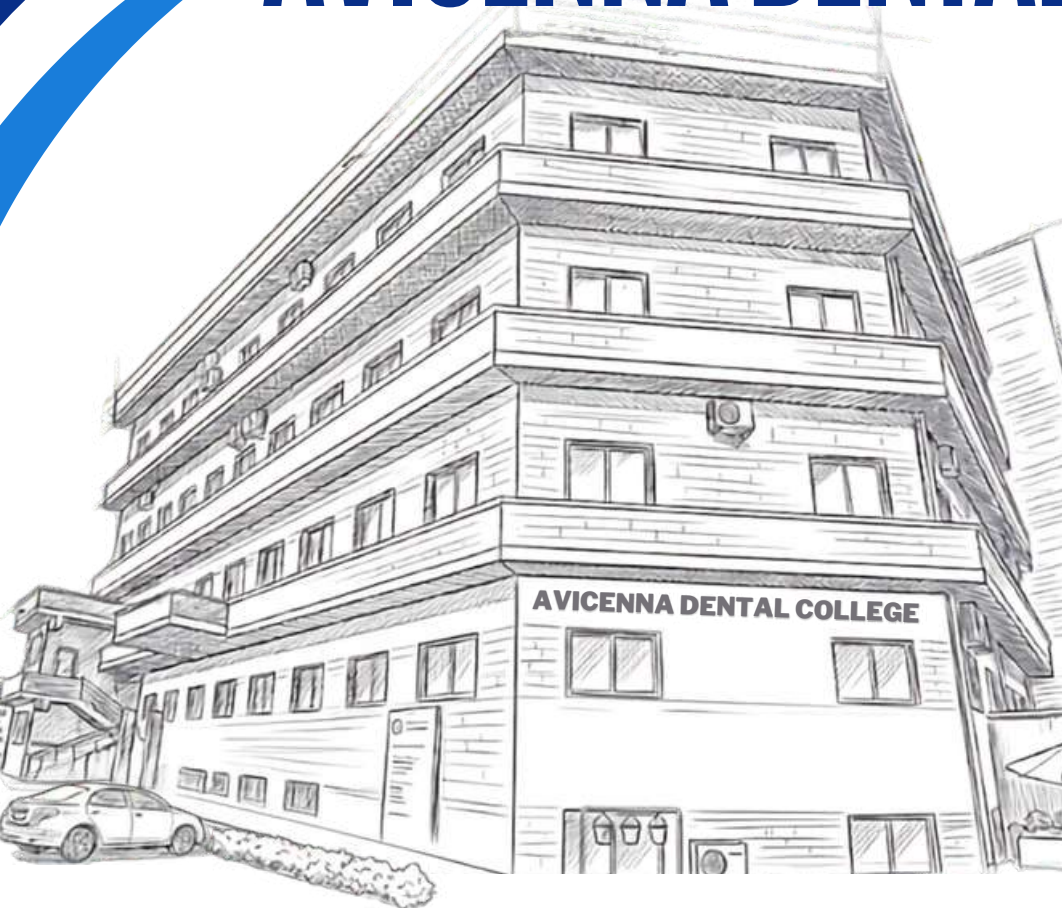




AVICENNA DENTAL COLLEGE



ANNUAL RESEARCH REPORT 2024 - 25

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It gives me great pleasure to present the Annual Research Report 2024–2025 of Avicenna Dental College. This report reflects our continued commitment to strengthening a culture of research, academic excellence, innovation, and evidence-based dental practice.

The achievements documented in this report demonstrate the growing engagement of our faculty and students in scholarly activities. Faculty members have contributed through research publications in national and international journals, while our students have actively participated in research contests, poster presentations, case report presentations, and international academic conferences. These accomplishments reflect the dedication, hard work, and academic potential of the Avicenna Dental College community.

Prof. Dr. Sohail Abbas Khan
Principal
Avicenna Dental College, Lahore.



Research at Avicenna Dental College is emerging as a vibrant and growing field.

Our students are demonstrating remarkable enthusiasm and commitment toward research.

Their efforts have already earned recognition through awards at national poster competitions and conferences.

We are committed to building on this momentum and fostering a strong culture of research.

Students are guided from the development of their research synopsis through data collection and presentation.

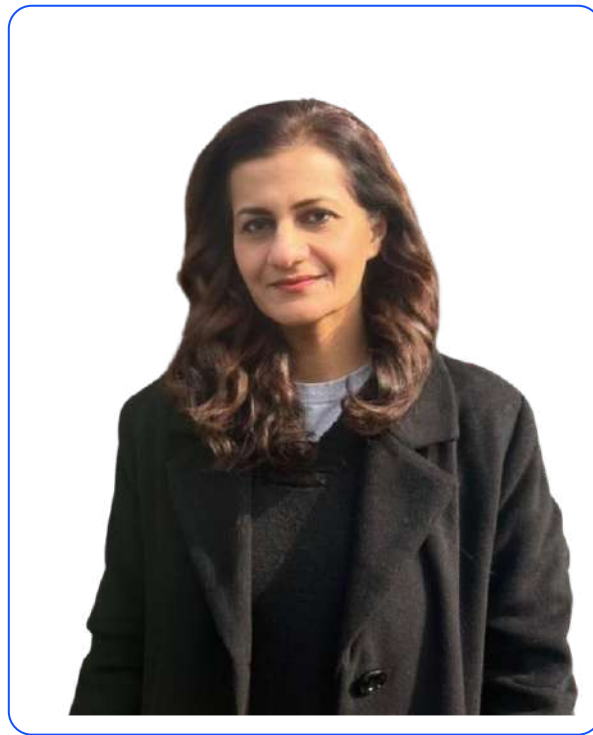
Our goal is to take their work one step further—from synopsis to publication.

We aspire for our students to graduate as confident clinicians and emerging researchers.

Prof. Dr. Usman Munir

Vice Principle

Avicenna Dental College, Lahore.



Research is becoming an integral and emerging dimension of dental education at Avicenna Dental College. Our students are increasingly embracing research with curiosity, dedication, and a strong desire to contribute to better healthcare.

Our vision is to nurture a generation of dental professionals who go beyond clinical practice—who question, investigate, innovate, and contribute to evidence-based dentistry. Through structured mentorship, we aim to transform students' ideas into meaningful research and, ultimately, into publications that make a difference.

From ideas to evidence, and from evidence to impact—we are building a culture where every young researcher can make a difference.

Dr. Lubna Yousaf
Community & Preventive Dentistry
Avicenna Dental College, Lahore.

Executive Summary



The 2024–2025 Annual Research Report showcases Avicenna Dental College's strategic achievements in advancing academic excellence, research innovation, and community impact. This year, faculty and students demonstrated remarkable growth in research output, securing national and international publications, participating in high-profile academic conferences, and strengthening research capabilities. Coupled with impactful community outreach, these accomplishments reflect our unwavering commitment to evidence-based dentistry, institutional leadership, and societal responsibility.

RESEARCH AT A GLANCE

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**Student Case Report
Presentation**

RESEARCH AT A GLANCE

7

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Student Poster Awards /Positions

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Student Case Report Presentation

Faculty Research & Publications



Avicenna Dental College continues to strengthen its vibrant research culture by empowering faculty and students to actively engage in innovative scholarly activities. Over the recent reporting period, investigative endeavors centered on key disciplines—including oral medicine, community dentistry, oral pathology, operative dentistry, and public health—to address pressing clinical questions and local healthcare challenges. Through cross-disciplinary collaboration and dedicated institutional resources, researchers successfully published their outcomes in prestigious national and international journals. This sustained academic output not only elevates the college’s scientific footprint globally but also ensures that cutting-edge research directly translates into improved patient care and community wellness.

International Research Publications

Dr. Lubna Yousaf, Dr. Amna Liaqat, and Dr. Huma Tahir published key research in international journals, strengthening Avicenna Dental College's global academic presence:

- **Dr. Lubna Yousaf (Assistant Professor - Community Dentistry)**

Article: *Diet and Oral Health: An Investigation into the Impact of Pakistani Dentistry Habits on Oral Disease Prevalence*

Journal: Cureus

- **Dr. Amna Liaqat (Assistant Professor - Oral Medicine)**

Article: *Recurrent Aphthous Stomatitis and Its Predisposing Factors Among Undergraduate Dental Students*

Journal: Journal of Population Therapeutics and Clinical Pharmacology

- **Dr. Huma Tahir (Associate Professor - Community Dentistry)**

Article: *Social Capital and Trust in Primary Healthcare: Insights from Users' Perspectives*

Journal: Journal of Population Therapeutics and Clinical Pharmacology

National Research Publications

In addition to their international contributions, our faculty have actively published research in PMDC-recognized national journals. These efforts not only enhance the academic profile of Avicenna Dental College but also advance the field of dental science across Pakistan.

- **Prof. Dr. Rubab Zahra (Professor - Oral Medicine)**

Article: Efficacy of Sodium Tetradecyl Sulphate for the Treatment of Venous Malformation of the Head and Neck

Journal: Pakistan Armed Forces Medical Journal

- **Dr. Sultan M. Wahid (Assistant Professor - Oral Pathology)**

Article: Immunohistochemical Expression of Ki-67 in Malignant Salivary Gland Tumors

Journal: Journal of Islamabad Medical & Dental College

- **Dr. Lubna Yousaf (Assistant Professor - Community Dentistry)**

Article: Knowledge, Attitudes, and Perceptions Regarding Artificial Intelligence and Its Uses in Oral Radiology Among Dental Surgeons of Lahore

Journal: Journal of the Pakistan Dental Association

- **Dr. Ambreen Zahra (Senior Registrar - Operative Dentistry)**

Article: Mustard Gel versus Chlorhexidine Gel as Root-Canal Medicament Against Enterococcus Faecalis: An in vitro study

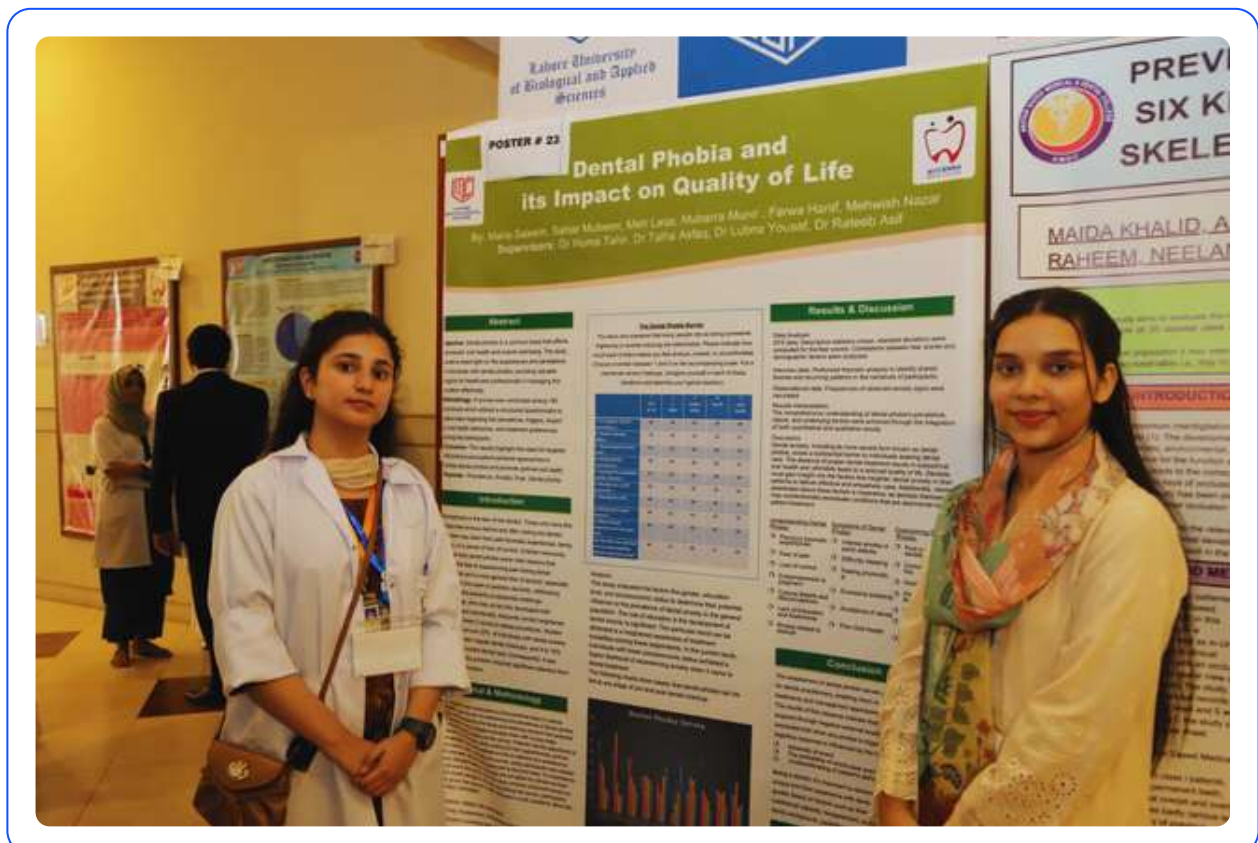
Journal: Journal of the College of Physicians and Surgeons Pakistan

Student Research Seminar & Activities

Students of Avicenna Dental College actively represented the institution at various academic forums.

INNOVATIVE CLINICAL CASE PRESENTATION/ RESEARCH CONTEST - LMDC

On October 31st, 2024, students from batches D-19, D-20, and D-21 proudly represented Avicenna Dental College at the "Innovative Clinical Case Presentation/ Research Contest-LMDC" hosted by Lahore Medical and Dental College. The event brought together participants from multiple institutions, fostering a spirit of academic exchange and collaboration.



Our **Vice Principal** and **Head of the Prosthodontics Department**, **Prof. Dr. Usman Munir**, along with the **Head of the Orthodontics Department**, **Prof. Dr. Nadia Bhutta**, were honored to serve as **judges** at this prestigious contest.



We are especially proud of our students from **D-21, Sahar Mubeen and Meh Laqa**, who secured **Third Position** with their insightful research poster on **“Dental Phobia and Its Impact on Quality of Life”**. Their achievements were recognized with certificates and cash prizes, a testament to their dedication and the vibrant research culture at Avicenna Dental College.



FUR – FMS 1ST International Integrated Health Sciences and Research Conference – 2025 (Poster Presentation)

In 2025, **BDS 3rd-year** students from Avicenna Dental College achieved a remarkable milestone by securing **First Prize** in Poster Presentation at the **FUR–FMS 1st International Integrated Health Sciences and Research Conference**. Competing alongside participants from diverse health science institutions, the students demonstrated academic excellence, research insight, and presentation skills at an international platform.



This achievement was made possible under the expert guidance and supervision of **Dr. Lubna Yousaf, Head of the Department of Community Dentistry**, whose mentorship played a pivotal role in the college's successful representation. The accomplishment reflects Avicenna Dental College's strong commitment to undergraduate research, faculty mentorship, and academic distinction.



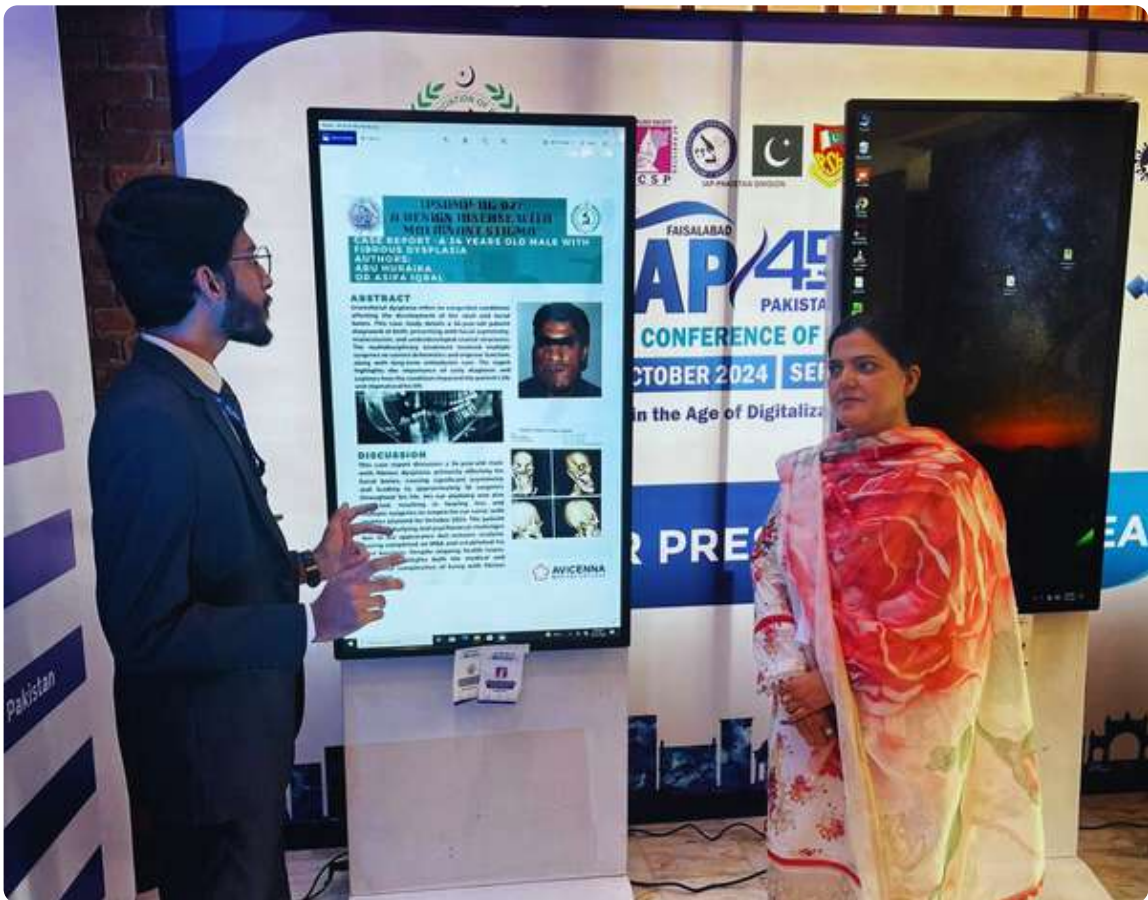
Avicenna Dental College proudly recognized the **BDS 3rd-year students** for their achievement of **First Prize** at the FUR-FMS 1st International Integrated Health Sciences and Research Conference 2025, awarding them **prizes** in appreciation of their academic excellence and research distinction.

45th International Conference of Pakistan Association of Pathologists

We are proud to share that student **Abu-Huraira** of **D-21** represented **Avicenna Dental College** at the **45th International Conference of the Pakistan Association of Pathologists** and the **10th Joint Conference of Societies of Pathology**, held at **Serena Hotel, Faisalabad**, on October 5-6, 2024. Under the mentorship of **Prof. Dr. Asifa Iqbal**, he presented a remarkable case report titled, **"A Benign Disease with a Malignant Stigma - A 34-year-old Male with Fibrous Dysplasia"**



Avicenna Dental College deeply appreciates Abu-Huraira's hard work, dedication, and achievements at such a prestigious platform. His success reflects the talent and potential of our students, and we encourage others to take inspiration from his journey, pursue their research interests with passion, and continue to represent our college at national and international levels.



Faculty Research Seminar



Monthly Faculty Research Seminars were conducted to promote academic discussion and research dissemination.



Foundations of Dental Research: Guided by Philosophy and Curiosity



Impact of Standardized Clinical Photography on Diagnostic Consistency and Treatment Planning in Orthodontic Practice



Orofacial Pain Management in a Dental Clinical Setting

Research at the helm: Insights From Our Principal

As part of the Faculty Research Seminar, our Principal, Prof. Dr. Sohail Abbas Khan, delivered an inspiring talk titled "Foundations of Dental Research: Guided by Philosophy and Curiosity"

He began by sharing his own understanding of "research", describing it not as the mere pursuit of data but as a thoughtful exploration of questions that challenge curiosity and knowledge forward. He explained how research ideas can arise from many sources - books, libraries, the internet, colleagues, or even patients - and highlighted the two origins of ideas:

- Observational and Spontaneous
- Targeted and Planned



Impact of Standardized Clinical Photography on Diagnostic Consistency and Treatment Planning in Orthodontic Practice



This research was presented by **Dr. Anum Aziz**, highlighting the role of standardized clinical photography in enhancing diagnostic consistency and improving treatment planning accuracy in orthodontic practice.



This study highlights how standardized clinical photography improves diagnostic accuracy and consistency, supporting more precise treatment planning and enhanced clinical decision-making in orthodontic practice.



The findings highlight its role in enhancing treatment planning, case documentation, and overall clinical decision-making.

Orofacial Pain Management in a Dental Clinical Setting

Presented by Dr. Shanzay, this presentation addressed the comprehensive evaluation and management of orofacial pain within dental clinical practice. It emphasized evidence-based diagnostic approaches, interdisciplinary management strategies, and patient-centered treatment planning aimed at improving pain control, enhancing patient comfort, and achieving better clinical outcomes.



Faculty Research Development Series



Avicenna Dental College conducts a regular Faculty Research Development Series, designed to equip faculty members with practical tools and guidance to support their scholarly work. Through hands-on workshops and interactive sessions, the series introduces participants to a variety of research resources and methodologies, helping them streamline their projects and strengthen the quality of their academic output.

Building Skills: Data Analysis with SPSS

As part of the Faculty Research Development Series, Avicenna Dental College organized a hands-on workshop on **“Data Analysis by SPSS” on September 12th 2024**, under the coordination of **Dr. Lubna Yousaf**.

The workshop was led by our esteemed guest speaker, **Dr. Zeeshan Butt**, and was attended by distinguished **Chief Guests Prof. Dr. Gulftaan Waheed, Principal of Avicenna Medical College,** and **Prof. Dr. Sohail Abbas Khan, Principal Avicenna Dental College.**



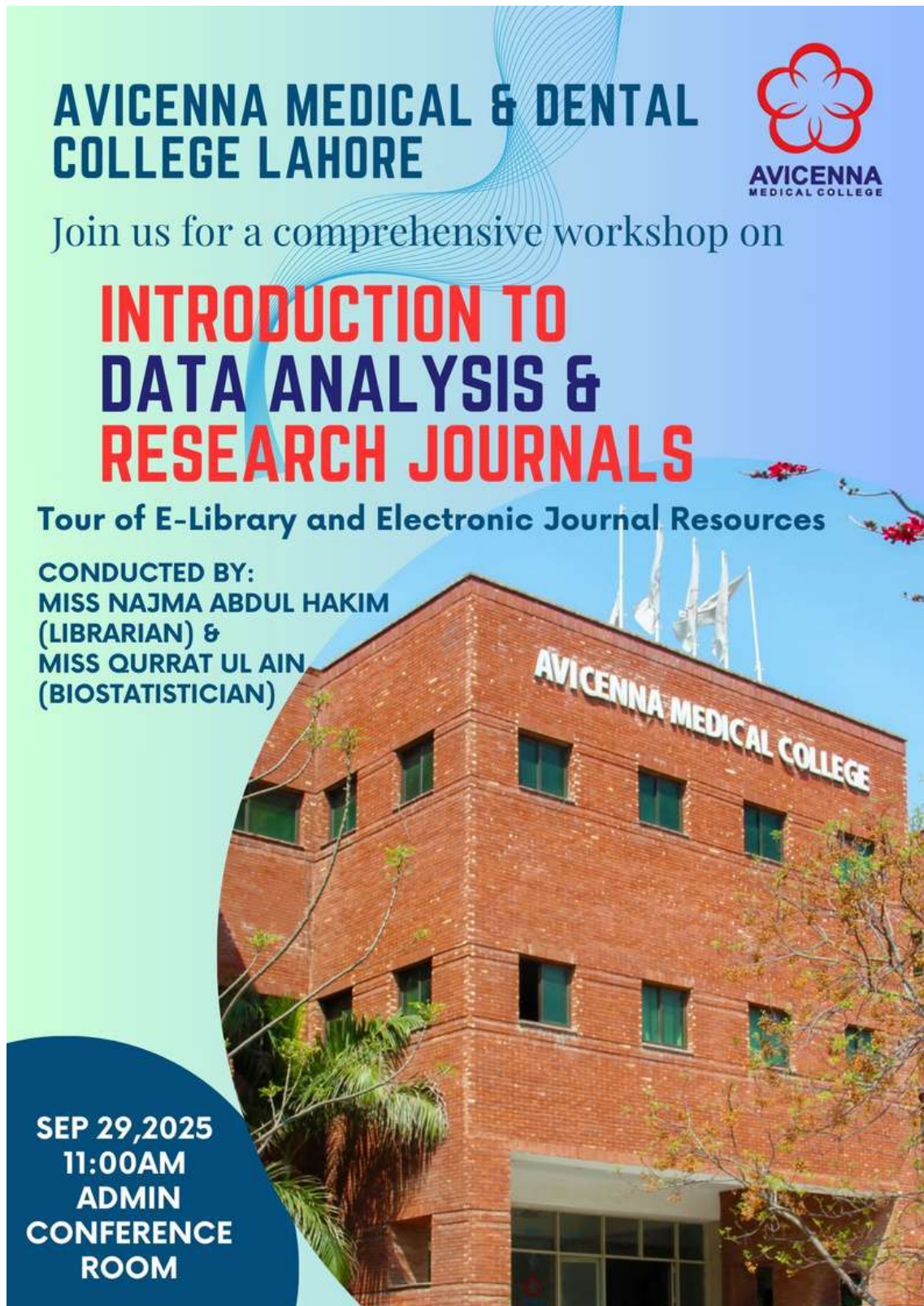
The event reflected the institution's continued commitment to strengthening the research capacity of its faculty by providing them with the tools and skills needed to carry out high-quality research.

In his engaging session, **Dr. Zeeshan** discussed the fundamentals of clinical research and guided participants through the practical use of SPSS software. Faculty members were taught how to enter data accurately, manage datasets, and perform essential descriptive and analytical tests, which are key for interpreting and presenting research findings.

The interactive format allowed participants to clarify their queries and gain confidence in applying statistical techniques to their own research projects. The faculty found the workshop to be highly beneficial, describing it as a fruitful and practical step toward enhancing their research capabilities.

Introduction to Data Analysis and Research Journals – Sep 29, 2025

Ms. Qurratul Ain delivered a brief **introduction to SPSS data analysis**, during which participants practiced data entry and basic analysis on their laptops. The workshop significantly enhanced participants' research skills and awareness of digital research resources.



AVICENNA MEDICAL & DENTAL COLLEGE LAHORE

Join us for a comprehensive workshop on

**INTRODUCTION TO
DATA ANALYSIS &
RESEARCH JOURNALS**

Tour of E-Library and Electronic Journal Resources

CONDUCTED BY:
MISS NAJMA ABDUL HAKIM
(LIBRARIAN) &
MISS QURRAT UL AIN
(BIOSTATISTICIAN)

**SEP 29, 2025
11:00AM
ADMIN
CONFERENCE
ROOM**

AVICENNA MEDICAL COLLEGE

Data Workshop

On **29 September 2025**, a hands-on workshop titled **“Introduction to Data Analysis and Research Journals”** was conducted in the e-Library of Avicenna College. The workshop was attended by faculty members and students from all departments, promoting interdisciplinary research learning. **Ms. Najama (Librarian)** provided a detailed orientation on the **HEC e-Library**, highlighting that Avicenna College has secured a **one-year subscription worth PKR 10 lac**, enabling access to multiple international research databases, including . She also demonstrated the effective use of the HEC e-Library portal for literature searching.



FACULTY DEVELOPMENT RESEARCH SERIES (7 WORKSHOP SERIES)

Avicenna Faculty Development Program



Join us in turning your research into
real healthcare impact

Course Title

Research Writing for Health Professionals

A Series of Research Workshops

1st Workshop

**Evidence to Impact:
Healthcare Research Horizons**

Facilitator

Prof. Dr. Gulfreem Waheed

MBBS, FCPS, MHPE, PhD Scholar HPE
Principal, Director DME
HOD Obstetrics & Gynaecology
Avicenna Medical College



Co - Facilitator

Mr. Kashif Siddiqui

MSc Biostatistics

Course Coordinator

Dr. Amna Haroon

0322 4853 041

**18th
DEC
2025**

Time

10 AM - 1:00 PM



Admin Conference Room
Avicenna Medical College and Hospital



Faculty Development Research Series 7 workshop Series

**Evidence to Impact: Healthcare Research
Horizons**

**Selection of Topic Problem Identification
Research Question Hypothesis Objective**

**Sample Size Calculation in Medical
Research**

**Introduction to Research Methodology:
Data Analysis Plan**

Future Directions

Strengthening a Sustainable Culture of Dental Research

Building on the achievements documented during 2024-2025, Avicenna Dental College aims to further strengthen research capacity, mentorship, collaboration, and the translation of research into meaningful clinical and academic outcomes.

Strengthen Faculty and Student Research

Expand faculty - led and undergraduate research initiatives and encourage sustained participation in scholarly activities

Expand Research Mentorship

Strengthen mentorship and guidance for students and faculty throughout topic development, methodology, data analysis, scientific writing and research resources

Increase Research Publications

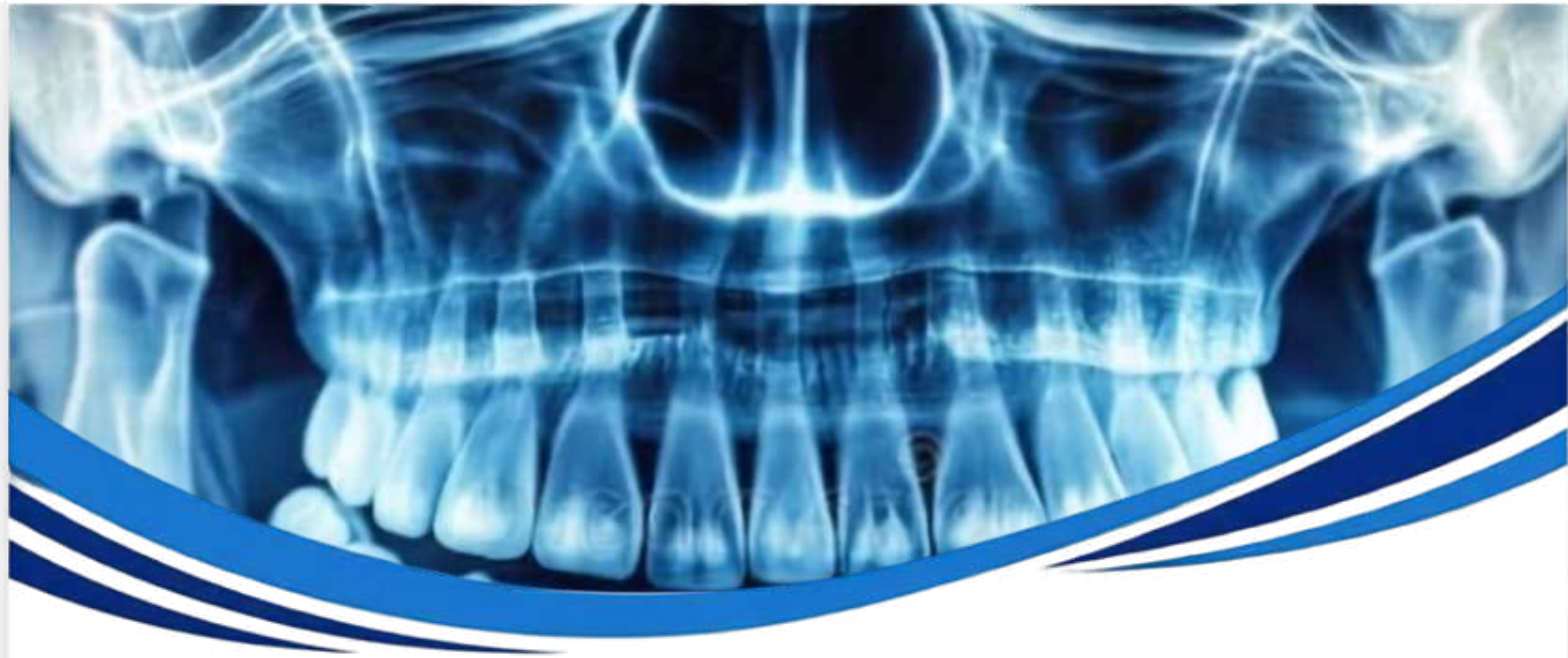
Encourage high-quality research with the goal of increasing national and international scholarly publications

Continue Faculty Development

Sustain and expand hands-on training in research methodology, biostatistics, SPSS, scientific writing and research resources.

Promote Research Dissemination

Encourage participation in conferences, poster competitions, case presentations, and other platforms that showcase research achievements



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