

Vice Deanship- Research and Development Annual Research Report 2023-24

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Message from Head- Scientific Research Unit

I am delighted to introduce the 2023/24 Annual report of Scientific Research Unit, under the Vice Deanship Research and Development; College of Dentistry Jazan University. This academic year we have witnessed various accomplishments as publications in esteemed ISI and Scopus journals, increase citations and involvement in scientific activities within and outside kingdom.

Through the numerous accomplishments consistent with the 2030 Government Strategic Plan of our faculties, students, and myriad administrators, the Research Unit has emerged strongly in innovative and translational research. Our researchers individually and collaboratively investigate a vast array of disciplinary and interdisciplinary research subjects at the cutting edge of science, dentistry, medicine and vast arena of its spectrum.

Scientific Research Unit being consistent in growth and ever striving for excellence every year is no exception in this academic year too. Ensuring and providing support and environment to both faculty members and students to conduct research in order to enhance their productivity and participation.

The Office of Vice-Dean Research supports the research efforts of all faculty members in the institute, provides mentoring for our new research faculty, facilitates and research programming, and identifies and disseminates research opportunities and collaborations.

Dr. Wael Awadh

Head- Scientific Research Unit
Vice Deanship- Research and Development
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INTRODUCTION

Current annual report briefly describes the number of events and accomplishments in research that has been achieved in the academic year 2023/24. This annual report is based on the principles missioned in 2022-23 and strives to pursue and achieve in this year which were:

- ✓ Create a research environment that adheres to and advances the highest Islamic values, ethics and morality standards for research and discovery.
- ✓ Advance and support research that focuses on improvement of health, wellbeing and economic prosperity within the Southern Province, the Kingdom and the Gulf States region.
- ✓ Become a core resource that advances and attracts high quality research and discovery throughout the institution.
- ✓ Advance intellectual curiosity within institution through development of programs aimed at attracting student and faculty participation in research activities.
- ✓ Develop the Center for Research as an institutional and regional resource to advance high quality research, scientific discovery and consultative studies.

Current report describes the annual activities of research unit under following categories:

- a. Intern Research Projects with Winners List 2023-24.
- b. ISI/Scopus Publications of Faculty/ Students Research 2023-24.

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INTERN RESEARCH PROJECTS: 2023-24

S No	Category	Total Number
1	Total Number of Projects	35
2	Total Number of Supervisors	38
3	Total Number of Intern's	97

Highlights:

- ✓ Guidelines for Interns and Supervisors were been made and provided to all groups and supervisors.
- ✓ Ethical review was done as needed in correspondence with the University Ethical Board.
- ✓ Weekly meetings of the unit were been conducted to analyze the progress and quality of research projects.
- ✓ Monthly research progress were been tracked with the supervisors and students.
- ✓ **9th Research Day**
 - a. Conducted on **22.05.2024** in college of Dentistry, Jazan University.
 - b. Research Day was conducted in a grandeur opening by President- Jazan University.
 - c. Posters evaluation was done in 2 phases:

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- i. Phase 1: Blinded posters has been sent to Reviewer's for evaluation.
 - ii. Phase 2: Posters have been presented by interns through an interactive session and assessed by internal evaluators.
 - iii. Top 3 winners from each Male and Female Groups were announced (List attached).
- ✓ All posters were archived and further been use as a scientific source to present in various national/ international conferences.

GROUP	INTERNS NAME	SUPERVISORS	RESEARCH TITLE
1A	Nouf Fawwaz Zaqan Ghadi Ghamdhan Jali	Dr. Ibtisam Moafa Dr. Mohammed Jafer	From potential Oral Cancer Patient to Oral Cancer Survivor: Exploring theCare Trajectory from Primary to Specialist in Saudi Arabia.
2A	Ghada Hakami Eman Solan Reem Abdullah	Dr. Saurabh Jain	Comparison of accuracy of intraoral scanners in impression of dental implants. An In vitro study.
3A	Atheer Alami Rahaf Halawi Zeinab Al Hazmi	Dr Renuga Lakshmi Apathsakayan	Color stability and retention of Silverdiamine fluoride under aesthetic dental restorations in children with vitaeasy shade and smartphone application- a randomised controlled trial
4A	Atheer Hassan Khawaji Hanan Hussain Najmi Almaha Ahmed Sadeli	Dr. Khurshid Mattoo Dr. Mohammed E. Sayed	Shear bond strength of Orthodontic metal brackets to CAD/CAM and 3d Printed Provisional Restorative material after various mechanical Surface Treatments - An In Vitro Study
5A	Asma Ahmed Muslihi Roaa Abdu Althurwi Hanan Salem Otudi	Dr. Khurshid Mattoo	A comparative study to evaluate different techniques of spacer acquisition in putty relin impression in terms of space gained and accuracy of dental casts obtained – An in vitro study

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6A	Asayel Mohammed Hussain Talis May Mohammed Othman Hakami Shahad Mohammed Ahmad Moafa	Dr Satish Vishwanathaiah Dr Prabhadevi C Maganur	Evaluation of clinical efficacy of caries removal and patient cooperation during restoration using smart bur and carbide burs : A randomized control trial
7A	Asayel Juraybi Lara Homdi Shahad Daghriri	Dr. Ibtisam Moafa	Breaking Boundaries: The Expanding Impact of Oral Smokeless Tobacco on Breast Cancer Susceptibility in Saudi Arabia
8A	Areej Alameer Weaam Naseeb Rahaf Houmady	Dr. Hitesh Chohan Dr. Harisha Dewan	Effect of commercially available desensitisers on shear bond strength of three composite resins placed using different techniques - AN IN-VITRO STUDY
9A	Halah Mohammed Hothan Ibtihaj Mohammed Suhail Wejdan Mousa Marwahi	Dr. Harisha Dewan	Influence Of Different Mechanical Surface Treatments On The Shear Bond Strength Of Metal And Plastic Orthodontic Brackets Bonded To 3D Printed Temporary Crowns
10A	Ghada Mohammed Fagehi Hissah Mohammed Majrashi Rahaf Yahya Gofshi	Dr. Arwa Ali Daghrery Dr. Vinoth Kumar Thilla Sekar	Comparative evaluation of marginal and internal fit of 3-D printed ceramic reinforced hybrid composite inlay–An in-vitro study
11A	Sadeem Omar Zaylai Rana Qasim Wasly Maryam Mohammed Zain	Dr. Ankur Jethlia	Knowledge, attitude and practice of probiotics for oral health among dental practitioners in Saudi Arabia
12A	Alkhansa Ahmed Moafa Asma Ali Alfaifi Lamis Mohammed Hawthan	Dr. Mosa Shubayr Dr. Mohammed M. Al Moaleem	Research and workforce development among oral health providers in Saudi Arabia

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13A	Khulud Nasser Khalufi Seham Ali Hassan Hakami Reham Mousa Ebrahim Daghri	Dr. Mosa Shubayr Dr. Mohammed M. Al Moaleem	Knowledge, Attitude and Practice of Oral cancer prevention among Ministry of Health and private providers in Saudi Arabia
14A	Rafa Abdulsamad Hakami Sana Essa Ageel Rehab Omar Abbas	Dr. Nasreen Albar Dr. Syed Nahid Basheer	Effect of Resin Infiltration Technique and self-assembling peptide on the Colour masking of artificially induced enamel lesions : A Cross - Sectional Study
15A	Wesal Mohammed Hakami Rawan Nasser Al.Amri Aisha Fouad Aqeeli	Dr. Prabhadevi C Maganur	Assessment of Personality Traits among Pediatric Dentists in Saudi Arabia : A Cross-sectional Study
16A	Amal Ali Yaqoub Wasan Hassan Hamzi Halima Faya Almishy	Dr. Nasreen Albar Dr. Vinoth Kumar Thilla Sekar	Effect of different surface treatments on the shear bond strength of zirconia - an in vitro study
17A	Tasneem Ahmed Masmali Salma Arar Khawaji Khawla Ahmed Mohsen Qadi	Dr. Abdulkarim Alshehri Dr. Amit Porwal	Comparative Evaluation of Stress Acting on Abutment, Bone, and Connector of Different Experimental Designs of Resin-Bonded Fixed Partial Dentures: A Finite Element Analysis
18A	Khadija Hezam Hanan Osaysi	Dr. Abdullah Meshni Dr.Saurabh Jain	The Comparison of Accuracy of Post Space Digital Impressions Made by Three Different Intraoral Scanners: An In vitro Study.
19A	Amani Abdu Basheery Sarah Ismail Salhebi Bashaer Mohammed Abuhadi	Dr. Ahmed Alqahtani Dr. Mohammed Najmuddin	Distal pathologies of the second molar in the presence and absence of the mandibular third molar: A radiographic evaluation.

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20A	Muntaha Abdulla Salim Horbi	Dr. Samar Khan Dr. Bharti Gupta	Hype, Hero or Heresy: Assessing the knowledge and feasibility of Artificial Intelligence generated ChatGPT amongst Dental Interns: A cross sectional study on multiple scenarios
21B	Faisal Ibrahim Alotaibi Yahya Sulaiman Aljabri Haitham Mohamed Sharrahi	Dr.Mohammed Mousa Bakri Dr. Asma Ali Hezam	The Influence of Arch Shape on the Incidence of Third Molar Impaction: A Cross-Sectional Study
22B	Atiah Ghawi Fawzi Alhathiq Ismail Alaama	Dr. Satish Vishwanathiah Dr. Ather Ahmed Syed	A comparative study on pain perception in children, after application of pre-cooled and plain topical anesthetic gel during local anesthetic administration- A randomized control trial
23B	Abdulaziz Yahya Thubab Mohammed Jabril Abu Illah Sultan Hakami	Dr Abdullah Meshni Dr. Manawar Ahmad Mansoor	Evaluation of Artificial Intelligence Diagnostic Tools for Automatic Detection of the Dental Caries & Periodontal Bone Loss in Intraoral Radiographs – A Convolutional Neural Network Approach
24B	Ayman Ali Sahary, Alfadel Ahmed Gadi, Mohammed Khalid Moafa	Dr. Mukaram Ali Faridi Dr. Asma Ali Hezam	Awareness and perception among General Dentist & General Physician of Jazan Province (KSA) regarding extraction of teeth on patients with Anti-Platelets Drugs
25B	Emad Aldeen Abdullah Alharbi Hamed Ali Thubab	Dr. Hafiz Adawi Dr. Hina Naim Abdul	Effects of Different Sterilization Techniques and Disinfectants on Antimicrobial Biofilm Formation on Dental Implant Components: An in Vitro Study
26B	Faisal Abdu Daghriri Loay Ebrahim Najmi Rayan Ali Nahari	Dr. Bandar Al- Makramani Dr. Praveen Gangadhrappa	Linear dimensional stability of different silicon bite registration materials with variable clinical applications and transparency.
27B	Yazeed Ahmed Jabreel Khormi Waleed Hassan	Dr. Hemant Ramesh Chourasia Dr. N. Kulsahkar Reddy	The Effect of Magnifications on direct posterior composite restorations: an in vitro randomized

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	Hussein Kariri Abdullah Ibrahim Mohammed Tawhari		controlled trial .
28B	Yaqoub Ahmed Mohammed Ayyashi Muhannad Ali Mohammed Masmali Mohammad Asaad Yahya Aljabri	Dr. N. Kulashekar Reddy Dr. Hemant Ramesh Chourasia	Evaluation of the effect of various tooth preparation margin designs and restorative materials on the stress distribution of molar endocrowns - A 3D Finite Element Analysis
29B	Ali Al-Hassan Najjar Muhannad Hussain Halawi Yahya Qasim Tawhari	Dr. Honey Lunkad	Evaluation of surface characteristics of Multilayered Zirconia Polished with three different Polishing Kits using Profilometer, Scanning electron microscope and Gloss-meter
30B	Zakaria Yahya Rayyani Abdulelah Yahya Alhazm	Dr. Mohammad Jafer	Fostering Preventive Dentistry: Nationwide Initiative for Oral Cancer Self-Assessment in Saudi Arabia
31B	Hussain Ahmed Alhazmi Abdullah Hadi Al quzi Alhassan Abdullah Namazi	Dr. Amit Porwal	A comparative study to evaluate the applicability of tooth crownability factors in evaluating the status of teeth to receive a crown by undergraduate dental students.
32B	Muhannad Jaafri Abdulaziz Abutaleb Abdulrahman Alhazmi	Dr. Esam Helboub	Association of the perceived stress, sleep quality, and temporomandibular disorders with oral health-related quality of life in dental students.
33B	Muqri, Abdullah Mohammed Y	Dr. Mukaram Ali Faridi Dr. Mohammed Mousa Bakri	The relationship between Dental anxiety and postoperative pain perception after surgical extraction of tooth: A prospective observational based study.
34B	Yahya Mohsen Khubrani	Dr. Alok Dubey	Knowledge of dentists and their preference in

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	Mahdi Abdu Hakami Ali Mohammad Gohal	Dr. Ather Ahmed Syed	prescribing antibiotics to children suffering from dental infections.
35B	Khalid Mobarki Majed Alhazmi Hussian Khabrany	Dr. Arwa Ali Daghery Dr. Honey Lunkad	Comparative evaluation of internal fit and marginal adaptation integrity of 3D printed and milled laminate veneers-An invitro study

LIST OF WINNERS OF RESEARCH DAY 2023-24: (FEMALES)

RANK	RESEARCH TOPIC	INTERN	SUPERVISOR
1	Comparative Evaluation of Stress Acting on Abutment, Bone, and Connector of Different Experimental Designs of Resin-Bonded Fixed Partial Dentures: A Finite Element Analysis	Tasneem Ahmed Masmali Salma Arar Khawaji Khawla Ahmed Mohsen Qadi	Dr. Abdulkarim Alshehri Dr. Amit Porwal
2	Comparison of accuracy of intraoral scanners in impression of dental implants. An in vitro study.	Ghada Hakami Eman Solan Reem Abdullah	Dr. Saurabh Jain
3	Effect of different surface treatments on the shear bond strength of zirconia - An in vitro study	Amal Ali Yaqoub Wasan Hassan Hamzi Halima Faya Almishy	Dr. Nasreen Hassan Albar Dr. Vinoth Kumar Thilla Sekar

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LIST OF WINNER OF RESEARCH DAY 2023-24: (MALES)

RANK	RESEARCH TOPIC	INTERN	SUPERVISOR
1	Effects of different sterilization techniques and disinfectants on antimicrobial biofilm formation on dental implant components: An in vitro study	Emad Aldeen Abdullah Alharbi Hamed Ali Thubab	Dr. Hafiz Adawi Dr. Hina Naim Abdul
2	Evaluation of internal fit and marginal adaptation of 3D printed and milled laminate veneers-An in vitro study.	Khalid Mobarki Majed Alhazmi Hussain Khabrany	Dr. Arwa Ali Daghery Dr. Honey Lunkad
3	Evaluation of artificial intelligence diagnostic tools or automatic detection of the dental caries & periodontal bone loss in intraoral radiographs – A convolutional neural network approach	Abdulaziz Yahya Thubab Mohammed Jabril Abu Illah Sultan Hakami	Dr. Abdullah Meshni Dr. Manawar Ahmad Mansoor

PUBLICATIONS 2023-24

<u>Name</u>	<u>Number</u>
Total research published by Faculty	332
Research published in ISI Journal	217
Research published in ISI (Q1) Journals	40
Research published in Scopus Journals	115
Research Citations for the year 2022 according to the Google Scholar	7730

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LIST OF PUBLICATIONS IN ISI JOURNALS 2023-24

S.No	Article Name	Journal
1	Levels of peri-implant sulcular fluid levels of soluble urokinase plasminogen activator receptor and TNF- α among cigarette smokers and non-smokers with peri-implantitis	Technology and Health Care
2	A Clinical Study of 50 Partially Edentulous Patients with Fixed Partial Denture Restorations to Compare Clinical Parameters and Changes in Gingival Sulcus Width After Displacement with 2 Different Gingival Retraction Cord Materials (Cotton and Polymer).	Medical Science Monitor
3	A Comparative Analysis of Marginal Adaptation Values between Lithium Disilicate Glass Ceramics and Zirconia-Reinforced Lithium Silicate Endocrowns: A Systematic Review of In Vitro Studies	Medical Science Monitor
4	A multi-country study of the associations between HIV vulnerability status, perception of COVID-19 related stigma and post-traumatic stress symptoms during the first wave of the pandemic	BMC Public Health
5	A multi-country survey of the socio-demographic factors associated with adherence to COVID-19 preventive measures during the first wave of the COVID-19 pandemic	BMC Public Health
6	A multi-country survey on access to healthcare and treatment services among individuals with critical medical care needs during the first wave of the pandemic	BMC Public Health
7	A Scanning Electron Microscopy Study Comparing 3 Obturation Techniques to Seal Dentin to Root Canal Bioceramic Sealer in 30 Freshly Extracted Mandibular Second Premolars.	Medical Science Monitor
8	A Split-Mouth Randomized Controlled Trial to Compare the Rate of Canine Retraction after a Soft Tissue Procedure Compared Against a Corticotomy Procedure for Accelerated Tooth Movement	Nigerian Journal of Clinical Practice
9	A Study of 42 Partially Edentulous Patients with Single-Crown Restorations and Implants to Compare Bone Loss Between Crestal and Subcrestal Endosseous Implant Placement.	Medical Science Monitor
10	Accuracy Comparison between Robot-Assisted Dental Implant Placement and Static/Dynamic Computer-Assisted Implant Surgery: A Systematic Review and Meta-Analysis of In Vitro Studies	Medicina
11	Alveolar bone changes following bi-maxillary vertical molars' movements using clear aligners.	BMC Oral Health
12	An Innovative Application of Pre-Medicated Collagen Sponges with Regenerative Biomaterials for Management of an Infected Extraction Socket: A Case Report	Nigerian Journal of Clinical Practice

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13	Analysis of Root Canal Characteristics in Permanent Canine Teeth Among 270 Saudi Subjects: A Cone-Beam Computed Tomography Study.	Medical Science Monitor
14	Application and Performance of Artificial Intelligence (AI) in Oral Cancer Diagnosis and Prediction Using Histopathological Images: A Systematic Review	Biomedicines
15	Artificial Intelligence Its Uses and Application in Pediatric Dentistry: A Review	Biomedicines
16	Assessment of the Effect of Phototherapy and PRP on the Immediate Implants: An Original Research	Journal of Pharmacy and Bioallied Sciences
17	Assessment of Oral Health-Related Quality of Life Using the Oral Impact on Daily Performance (OIDP) Instrument Among Secondary School Teachers of Modinagar, Uttar Pradesh: A Cross- Sectional Study	Cureus
18	Assessment of Oral Mucosal Lesions (OML), Periodontal Health Conditions, and Unmet Dental Treatment Needs in the Rural Adult Population of Jharkhand, North India	Cureus
19	Assessment of Stress Distribution Around Dental Implants Based on the All-on-Four Treatment Concept using Finite Element Analysis	Journal of Pharmacy and Bioallied Sciences
20	Assessment of the occlusal outcomes in patients treated with orthognathic surgery and clear aligners	Orthodontics & Craniofacial Research
21	Association of Peri-Implant Health Status With COVID-19	International Dental Journal
22	Bibliographic analysis and evaluation of the mesh keywords in the journal of prosthodontics: Implant, esthetic, and reconstructive dentistry	Technology and Health Care
23	Bibliometric analysis and evaluation of the Journal of Prosthetic Dentistry from 1970 to 2019	Journal of Prosthetic Dentistry
24	Bioactive principles, antibacterial and anticancer properties of Artemisia arborescens L.	Notulae Botanicae Horti Agrobotanici Cluj-Napoca
25	Blood Lead Level and Biochemical Changes Among Gasoline Stations Workers Exposed to Benzene in Makkah City, Saudi Arabia	Polish Journal of Environmental Studies
26	Clinical and CBCT Assessment of Role of Bisphosphonate on Osteotomy Site and Implant Surface	Journal of Pharmacy and Bioallied Sciences
27	Clinical Effectiveness of 3D-Milled and 3D-Printed Zirconia Prosthesis—A Systematic Review and Meta-Analysis	Biomimetics
28	Color Stability, Gloss Retention, and Surface Roughness of 3D-Printed versus Indirect Prefabricated Veneers	Journal of Functional Biomaterials
29	Comparative analysis of properties in chairside silicone denture liners versus heat-cured Molloplast-B: an in-depth in vitro evaluation	Medical Science Monitor

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30	Comparative Assessment of the Periodontal Findings in Child Subjects With a Normal Body Mass Index and in Obese Subjects	Cureus
31	Comparative Evaluation of Dimensional and Occlusal Accuracy of Non-Working Antagonist Casts: A Study on Different Impression Materials and 3D Printing	Medical Science Monitor
32	Comparative Evaluation of Extrusion of Apical Debris in Primary Maxillary Anterior Teeth Using Two Different Rotary Systems and Hand Files: An In Vitro Study	Children
33	Comparative Evaluation of Microhardness, Water Sorption and Solubility of Biodentin and Nano-Zirconia-Modified Biodentin and FTIR Analysis	Applied Sciences
34	Comparative Evaluation of Various Lens and Ring Flash Combination for Intraoral Photography	Nigerian Journal of Clinical Practice
35	Comparison of Composite Resin (Duo-Shade) Shade Guide with Vita Ceramic Shades Before and After Chemical and Autoclave Sterilization	Medical Science Monitor
36	Comparison of the quality of life among the immediate loading implant overdentures using the single and the double implants: an original study	Journal of Pharmacy and Bioallied Sciences
37	Comparison of Digital Planimetry and Ruler Methods for the Measurement of Extraction Socket Wounds	Medicina
38	Comparison of Root Dentinal Crack Formation after Coronal Pre-Flaring using Different Rotary Instruments: An In vitro Study	Journal of Pharmacy and Bioallied Sciences
39	Comparison of three-dimensional maxillary growth across sphenoccipital synchondrosis maturation stages	BMC Oral Health
40	Comparison of Tooth Color and Enamel and Dentinal Thickness between Orthodontically Treated and Untreated Individuals	Diagnostics
41	Composite graded melt electrowritten scaffolds for regeneration of the periodontal ligament-to-bone interface	Tissue Engineering Part A
42	Correction: Differences in adoption of COVID-19 pandemic related preventive behaviour by viral load suppression status among people living with HIV during the first wave of the pandemic	BMC Research Notes
43	Correlation Between Horizontal and Vertical Skeletal Components in Dental Malocclusions Among the Jazan Population	Cureus
44	Correlation between the three-dimensional maxillomandibular complex parameters and pharyngeal airway dimensions in different sagittal and vertical malocclusions	Dentomaxillofacial Radiology
45	Dental caries experience among qat chewers in dental college clinics, Jazan, Saudi Arabia	BMC Oral Health
46	Dental patient-reported outcomes following traumatic dental injuries and treatment: A narrative review	Dental Traumatology
47	Differences in adoption of COVID-19 pandemic related preventive behaviour by viral load suppression status among people living with HIV during the first wave of the pandemic	BMC Research Notes

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48	Dimensional and positional temporomandibular joint osseous characteristics in normodivergent facial patterns with and without temporomandibular disorders	Clinical Oral Investigation
49	Distribution of dental practices in Jazan of Saudi Arabia: a GIS-based approach	BMC Health Services Research
50	Effect of Effervescent Denture Cleansers on 3D Surface Roughness of Conventional Heat Polymerized, Subtractively, and Additively Manufactured Denture Base Resins: An In Vitro Study	Journal of Prosthodontics
51	Effect of non-surgical periodontal therapy with adjunct photodynamic therapy on periodontal and glycemic statuses in prediabetic patients with periodontal disease	Photodiagnosis and Photodynamic Therapy
52	Effect of partial ferrule on fracture resistance of endodontically treated teeth: A meta-analysis of in-vitro studies	Journal of Prosthodontic Research
53	Effect of smokeless tobacco on color stability and surface roughness of CAD/CAM milled, 3D printed, and conventional provisional crown and fixed dental prosthesis materials: An in vitro study	Technology & Health Care
54	Effect of the Gap between Cemented Posts and Remaining Gutta-Percha on the Clinical Outcome of Endodontically Treated Teeth Managed by Undergraduate Dental Students: A Prospective Study with 4 Years of Follow-Up	Applied Sciences
55	Effect of the vertical facial pattern on the developmental relationship between the nasal bone and maxillary central incisors	BMC Oral Health
56	Effects of Blood Contamination and Decontamination Protocol on Reverse Torque Value of Abutment Screws in Dental Implants: An In Vitro Study	Biomimetics
57	Effects of Smokeless Tobacco on Color Stability and Surface Roughness of 3D-Printed, CAD/CAM-Milled, and Conventional Denture Base Materials: An In Vitro Study	Biomedicines
58	Efficacy of 5-aminolevulinic acid-mediated photodynamic therapy in patients with nicotine stomatitis	Photodiagnosis and Photodynamic Therapy
59	Efficacy of artificial intelligence in the detection of periodontal bone loss and classification of periodontal diseases: A systematic review	The Journal of the American Dental Association
60	Efficacy of lycopene for management of oral potentially malignant disorders: A systematic review and meta-analysis	Oral Surgery Oral Medicine Oral Pathology Oral Radiology
61	Estimation of Loss of Crestal Bone Around Dental Implants in Various Tissue Biotypes Using CBCT	Journal of Pharmacy and Bioallied Sciences
62	Evaluating the efficacy of Centella asiatica on enhancement of oral health status in hyperglycemic patients-A randomized clinical trial	Journal of King Saud University Science
63	Evaluating the Efficacy of Platelet-Rich Fibrin Matrix versus Subepithelial Connective Tissue Grafts in Dental Root Coverage: A Comparative Study Using Modified Ruben's Technique	Medical Science Monitor

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64	Evaluating the Role of Nanoparticles in Enhancing Bone Regeneration in Dental Implantology	Journal of Pharmacy and Bioallied Sciences
65	Evaluation of Dental Professionals' Knowledge and Attitude Regarding the Diagnosis of Oral Cancer Through Histopathological Examination of Granulation Tissue	Cureus
66	Evaluation of efficacy of non-resorbable membranes compared to resorbable membranes in patients undergoing guided bone regeneration	Heliyon
67	Evaluation of scanning accuracy for two commercially available intraoral scanners in reproducing orthodontic bracket dimensions	European Review for Medical and Pharmacological Sciences
68	Evaluation of split-cast techniques for remounting casts on a dental articulator: A survey and an in vitro study	European Journal of Dental Education
69	Evaluation of the Efficacy of a Neem Extract Based Herbal Ointment, Herbal Antioxidant, and Propolis on Oxidative Stress Related to Oral Ulcers: An Interventional Animal Study	Cureus
70	Exploring the Effects of Low-Level Laser Therapy on the Cytocompatibility and Osteo/Odontogenic Potential of Gingival-Derived Mesenchymal Stem Cells: Preliminary Report	Applied Sciences
71	Factors associated with an increase in tobacco use and alcohol drinking during the COVID-19 pandemic: A cross-sectional study of data from 105 countries	Tobacco induced diseases
72	Fracture Load of Mesio–Occluso–Distal Composite Restorations Performed with Different Reinforcement Techniques: An In Vitro Study	Polymers
73	High Prevalence of Musculoskeletal Disorders Among Dental Professionals: A Study on Ergonomics and Workload in Yemen.	Medical Science Monitor
74	Identification of oral immune disorders– A review and a diagnostic algorithm	Disease a Month
75	Influence of Chairside Simulated Adjustment (Finishing and Polishing) Protocol and Chlorhexidine Mouthwash Immersion on Color Stability and Translucency of 2 and 3 Preshaded Multilayered Monolithic Zirconia.	Medical Science Monitor
76	Influence of Prosthodontic Rehabilitation Using Zygomatic Implants in Covid 19 Related Mucormycosis (Rhino–Orbital–Cerebral) Maxillectomy Patients Upon Post-Operative Stress, Anxiety and Functional Impairment: A Prospective Cohort Study.	Clinical Interventions in Aging
77	Inhibitory effect of lupeol, quercetin, and solasodine on <i>Rhizopus oryzae</i> : A molecular docking and dynamic simulation study	Journal of Infection and Public Health
78	Is Orthodontic Treatment an Etiologic Factor for Altered Passive Eruption? A Clinical Study and Systematic Review	Applied Sciences
79	Isolation systems and its effectiveness in oral and maxillofacial surgery: A systematic review	Journal of Pharmacy and Bioallied Sciences

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80	Knowledge and Role of Paediatricians/Paediatric Residents in Infant Oral Healthcare and Dental Home across Saudi Arabia: A Cross-Sectional Study	Children
81	Knowledge, Awareness, and Perception of COVID- 19 and Artificial Intelligence: A Cross-Sectional Study Among the Population in Saudi Arabia	Cureus
82	Micro Tensile bond strength and microleakage assessment of total-etch and self-etch adhesive bonded to carious affected dentin disinfected with Chlorhexidine, Curcumin, and Malachite green.	Photodiagnosis and Photodynamic Therapy
83	Modulation of oral cancer and periodontitis using chemotherapeutic agents - A narrative review	Disease a Month
84	Nanoscale β -TCP-Laden GelMA/PCL Composite Membrane for Guided Bone Regeneration	ACS Applied Materials & Interfaces
85	Online Questionnaire-Based Study to Evaluate the Attitudes and Use of Rubber Dental Dams by Saudi Dental Practitioners.	Medical Science Monitor
86	Oral cancer knowledge, attitudes, and practices among senior dental students in Yemen: a multi-institution study	BMC Oral Health
87	Oral health providers' views of oral health promotion in Jazan, Saudi Arabia: a qualitative study	BMC Health Services Research
88	Periodontal-Systemic disease: A study on medical practitioners knowledge and practice	International Dental Journal
89	Prevalence of burnout and practice-related risk factors among Saudi Board dental residents using the Copenhagen Burnout Inventory: A survey-based cross-sectional study.	Medicine
90	Prevalence of Dental Anomalies and Its Role in Sex Estimation among Children of Jazan Region, Saudi Arabia	Children
91	Prosthetic Rehabilitation's Role in Alleviating Anxiety and Depression in Mucormycosis-Induced Maxillectomy Patients Post-COVID-19	Medical Science Monitor
92	Quality and readability of web-based Arabic health information on dental implant: an infodemiological study	BMC Oral Health
93	Quantitative and qualitative condylar changes following stabilization splint therapy in patients with temporomandibular joint disorders	Oral Investigation
94	Radiographic Evaluation of the Gap between Cemented Post and Remaining Gutta-Percha in Endodontically Treated Teeth Performed by Undergraduate Students: A Retrospective Cross-Sectional Study	Medicina
95	Recommendations for standard criteria for the positional and morphological evaluation of temporomandibular joint osseous structures using cone-beam CT: a systematic review	European Radiology
96	Red-Complex Bacterial Levels in Pregnant Women With Preeclampsia and Chronic Periodontitis	International Dental Journal
97	Regeneration of Intrabony Defects with Nano Hydroxyapatite Graft, Derived from Eggshell along with Periosteum as Barrier Membrane under Magnification—An Interventional Study	Applied Sciences

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98	Relationship between Carotid Artery Calcification and Periodontitis in the Saudi Population: A Retrospective Study	Applied Sciences
99	Relationship between tooth type and material used in the construction of endocrowns and fracture force values: a systematic review.	European Review for Medical and Pharmacological Sciences
100	Role of resistin in various diseases with special emphasis on periodontal and periapical inflammation - A review	Journal of Pharmacy and Bioallied Sciences
101	Shear Strength of Repaired 3D-Printed and Milled Provisional Materials Using Different Resin Materials with and without Chemical and Mechanical Surface Treatment	Polymers
102	Success Rate of Immediately Loaded Implants in the Posterior Zone	Nigerian Journal of Clinical Practice
103	Sulfate-reducing bacteria in patients undergoing fixed orthodontic treatment	International Dental Journal
104	Survival and Complications of Single Dental Implants in the Edentulous Mandible following Immediate or Delayed Loading: A Randomized Controlled Clinical Trial.	Journal of Pharmacy and Bioallied Sciences
105	The dimensional and morphological assessment of frontal air sinus in different ages, genders and ethnicities (Arabian-Caucasian and Han-Chinese sub-populations)	Oral Radiology
106	The Effect of a Digital Manufacturing Technique, Preparation Taper, and Finish Line Design on the Marginal Fit of Temporary Molar Crowns: An In-Vitro Study	Biomedicines
107	The effect of clear aligners on speech: a systematic review	European Journal of Orthodontics
108	The Effect of Dentine Desensitizing Agents on the Retention of Cemented Fixed Dental Prostheses: A Systematic Review	Medicina
109	The Effect of Probiotic Supplementation on Gut Microbiota and their Metabolic Potential in Psychiatric Patients	Curr. Issues Mol. Biol (CIMB)
110	The Global Prevalence of Middle Mesial Canal in Mandibular First and Second Molars Assessed by Cone Beam Computed Tomography: A Systematic Review and Meta-Analysis	Journal of Endodontics
111	The Global, Regional, and National Burden of Adult Lip, Oral, and Pharyngeal Cancer in 204 Countries and Territories: A Systematic Analysis for the Global Burden of Disease Study 2019	JAMA Oncology
112	The impact of periodontal disease on the clinical outcomes of COVID-19: A systematic review and meta-analysis	BMC Oral Health
113	The ISAC Paradigm to Tame Oral Cancer in Saudi Arabia: A Quasi-experimental Study	Journal of Cancer Education
114	Therapeutic efficacy of adjunctive photodynamic therapy in the treatment of denture stomatitis	Photodiagnosis and photodynamic therapy
115	Three dimensional evaluation of the skeletal and temporomandibular joint changes following stabilization splint therapy in patients with	BMC Oral Health

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	temporomandibular joint disorders and mandibular deviation: a retrospective study.	
116	Three-dimensional phenotype characteristics of skeletal class III malocclusion in adult Chinese: a principal component analysis–based cluster analysis	Clinical Oral Investigation
117	Three-dimensional relationship between the degree of bilateral impacted mandibular third molars angulation and the mandibular dental arch parameters: a cross-sectional comparative study.	Clinical Oral Investigation
118	Tissue-specific melt electrowritten polymeric scaffolds for coordinated regeneration of soft and hard periodontal tissues	Bioactive Materials
119	Transcriptional regulatory signatures of systemic diseases in periodontitis with dyslipidemia	Journal of King Saud University- Science
120	Transforming Dental Caries Diagnosis through Artificial Intelligence-Based Techniques	Cureus
121	Tridimensional analysis of incisive canal and upper central incisor approximation.	International Dental Journal
122	Unlocking endocrown restoration expertise among dentists: insights from a multi-center cross-sectional study	Medical Science Monitor
123	Unveiling the potential of melt electrowriting in regenerative dental medicine	Acta Biomaterialia
124	Use of final irrigants MTAD, Salvedora Perscia, Malachite green, and Ti-sapphire laser on push-out bond strength of Zirconia post	Photodiagnosis and Photodynamic Therapy
125	Vitamin D deficiency and risk of recurrent aphthous stomatitis: updated meta-analysis with trial sequential analysis	Fronteir Nutriton

LIST OF PUBLICATIONS IN SCOPUS JOURNALS 2023-24

S. NO	ARTICLE NAME	JOURNAL
1	A Cross Sectional Study to Evaluate Relative Awareness About Different Implant Abutments in Anterior Aesthetic Region: A Survey based	Journal of Chemical Health Risks
2	A New Criteria to Assess Quality of Obturation in Primary Teeth: KEDOO Classification	International Journal Clinical Pediatric Dentistry
3	A systematic review assessing the dental pulp stone prevalence in the Saudi Arabian population	The Saudi Dental Journal
4	A three-dimensional finite element analysis of impact of implant diameter, length, and thread designs on stress distribution	International Journal of Chemical and Biochemical Sciences
5	Amorphous Calcium Phosphate Based Tooth Remineralization Systems in Dentistry – A Systematic Review of in-Vitro Studies	Journal of International Dental and Medical Research

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6	An Awareness Based Evaluation of Success of Dental Implant Treatment as Observed with and Without Dental Assistants: An Original Research Study	Journal of Chemical Health Risks
7	Analysis of the Facial Measurements and Dental Arch Dimensions for the Construction of Dental Prostheses Among Adult Yemenis	The Journal of Contemporary Dental Practice
8	Assessment and correlation of anxiety, depression and serum cortisol levels in patients with oral submucous fibrosis and leukoplakia: A clinicohematological study	Journal of Oral and Maxillofacial Pathology
9	Assessment of Mental Health in Medical and Dental College Students in Jazan Province to See the Delayed Psychological Impact of COVID-19 Pandemic: An Online Survey	World Dental Journal
10	Assessment of Microgap and Microbial Leakage of Two Different Implant-abutment Interfaces: An In Vitro Study	The Journal of Contemporary Dental Practice
11	Assessment of quality of life among dental practitioners using magnification devices during nonsurgical root canal treatment in the Kingdom of Saudi Arabia A cross-sectional study.	Saudi Endodontic Journal
12	Associations of the activity and concentration of carbonic anhydrase VI with susceptibility to dental caries: A systematic review and meta-analysis	Clinical and Experimental Dental Research
13	Cherubism in Saudi population: a rare case report	Brazilian Dental Science
14	Combined Effect of Mineral Trioxide Aggregate and Customized Glass Fiber Post in Nonsurgical Endodontic Retreatment Teeth at Esthetic Zone: A Case Report.	World Journal of Dentistry
15	Comparative Evaluation of Hardness and Energy Absorption of Some Commercially Available Chairside Silicone-Based Soft Denture Liners and a Heat-Cured Soft Denture Liner.	Clinical, Cosmetic and Investigational Dentistry
16	Comparative Evaluation of Platelet Functional Analysis in Autologous Platelet Concentrates Using Two Different Centrifugation Protocols in Periodontal Regeneration: An Ex-Vivo study	International Journal of Chemical and Biochemical Sciences
17	Comparison of shear bond strength of composite resin, compomer, and resin modified glass ionomer cements in primary teeth: An in vitro study	Journal of Orthodontic Science
18	Comparison of sleep quality between clear aligner and fixed appliance orthodontic therapies	Journal of the World Federation of Orthodontists
19	Correlation Between Maxillary Anterior Teeth and Common Facial Measurements.	Clinical, Cosmetic and Investigational Dentistry
20	Deep Learning-Based Classification of Histopathology Images for Cancer Diagnosis	International Journal of Intelligent Systems and Applications in Engineering
21	Dental Prosthetic Treatment Needs and Its Awareness as Related to Prognostic Parameter and Outcomes; An Original Research Study	Journal Of Chemical Health Risks

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22	Dimensional and Positional Characteristics of the Temporomandibular Joint of Skeletal Class II Malocclusion with and without Temporomandibular Disorders	The Journal of Contemporary Dental Practice
23	Ectopic Mandibular Third Molars in the Ramus Region: A Report of Three Cases	Journal of International Dental and Medical Research
24	Effect of Intraoral Appliance on Oral Health Status and Streptococcus mutans Count: A Longitudinal Study	European journal of General dentistry
25	Effect of Repeated Moist Heat Sterilization on Titanium Implant– Abutment Interface—An In Vitro Study	European Journal of Dentistry
26	Effects of Combining Sodium or Calcium Hypochlorite with Other Root Canal Irrigants- A Systematic Review	Journal of International Dental and Medical Research
27	Efficacy of Ultrasonography in diagnosis of temporomandibular joint soft tissue injury induced by mandibular fractures: Randomized clinical trial	Brazilian Dental Science
28	Evaluation for Survival of Dental Implants in Medically Compromised Patients	International Journal of Chemical and Biochemical Sciences
29	Evaluation of Change in Quality of Life, Dental Fear and Dental Anxiety in Young Children Following Full-mouth Dental Rehabilitation under General Anesthesia for Early Childhood Caries	Journal of Contemporary Dental Practice
30	Evaluation of Cytotoxicity of Calcium Silicate-based Mineral Trioxide Aggregate Sealers: A Systematic Review of In Vitro Studies	The Journal of Contemporary Dental Practice
31	Evaluation of Risk Factors associated with Caries Development after Full-mouth Rehabilitation for Early Childhood Caries Under General Anesthesia	Journal of Contemporary Dental Practice
32	Evaluation of Root Canal Morphology of Maxillary Second Premolars and Its Relation to Maxillary Sinus in a Saudi Arabian Population	The Journal of Contemporary Dental Practice
33	Evaluation of the Diagnostic and Prognostic Accuracy of Artificial Intelligence in Endodontic Dentistry: A Comprehensive Review of Literature	Computational and Mathematical Methods in Medicine
34	Evaluation of the Effect of Digital Dentistry on the Accuracy of Implant Placement and Prosthesis Fabrication—A Systematic Review and Meta-Analysis	Prosthesis
35	Evaluation of the Effects of Digital Manufacturing, Preparation Taper, Cement Type, and Aging on the Color Stability of Anterior Provisional Crowns Using Colorimetry	Medical Science Monitor Basic Research
36	Evaluation of the Milled and Three-Dimensional Digital Manufacturing, 10-Degree and 20-Degree Preparation Taper, Groove and Box Auxiliary Retentive Features, and Conventional and Resin-Based Provisional Cement Type on the Adhesive Failure Stress of 3 mm Short Provisional Crowns.	Medical Science Monitor Basic Research.

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37	Gender Dimorphism of Skeletal Measurements and Dental Angle Classification in Orthodontic Patients	The Journal of Contemporary Dental Practice
38	Human Teeth: The Valiant Survivors	Journal of Datta Meghe Institute of Medical Sciences University
39	Impact Strength of Various Types of Acrylic Resin: An <i>In Vitro</i> Study	The Journal of Contemporary Dental Practice
40	Importance and validity of Patient Consent for Dental Procedures	Acta Biomedica
41	In Vitro Assessment of Primary Stability of Dental Implants Placed Under Cyclic Loading with Different Parameters: An Original Research Study	Journal of Chemical Health Risks
42	Incidence and assessment of intra-operative and post-operative complication of extraction -our experience.	Acta Biomedica
43	Infection Control in Dental Clinics: Prosthodontics Perspectives	The Journal of Contemporary Dental Practice
44	Inverted Impacted Teeth: Rare Case Series of 13 Cases	Journal of International Dental and Medical Research
45	Kinesio Taping as a Therapeutic Tool for Masticatory Myofascial Pain Syndrome—An Insight View	Int. J. Environ. Res. Public Health
46	Knowledge and Attitude of Undergraduate Students and Interns toward Stem Cells and Their Implications in Dentistry: A Cross-sectional Study	Journal of Contemporary Dental Practice
47	Knowledge and Experiences of Undergraduate Dental Students and Interns toward Research: A Cross-sectional Study	International Journal Clinical Pediatric Dentistry
48	Knowledge, Attitudes, and Practices of Dental Healthcare Workers toward Hepatitis B Virus in Khartoum/Sudan	The Journal of Contemporary Dental Practice
49	Knowledge, attitudes, and practices of dentists after the COVID-19 pandemic: A cross-sectional study	Dental Research Journal
50	Management of Bilateral Foreign Objects in Immature Permanent Maxillary Central Incisors: A Case Report	European Journal of General Dentistry
51	Metformin Restores Regenerative Potential of Oral Stem Cells in Periodontitis	World Journal of Dentistry
52	Nanohydroxyapatite in dentistry: A comprehensive review	Saudi Dental Journal
53	Oral Hygiene Knowledge, Practice, and Awareness among Jazan Population of Saudi Arabia	European Journal of General Dentistry
54	Orthodontic Extrusion as an Aid for Restoring Extensively Destroyed Teeth and Preserving Implant Site Creation: A Case Series.	International medical case reports journal

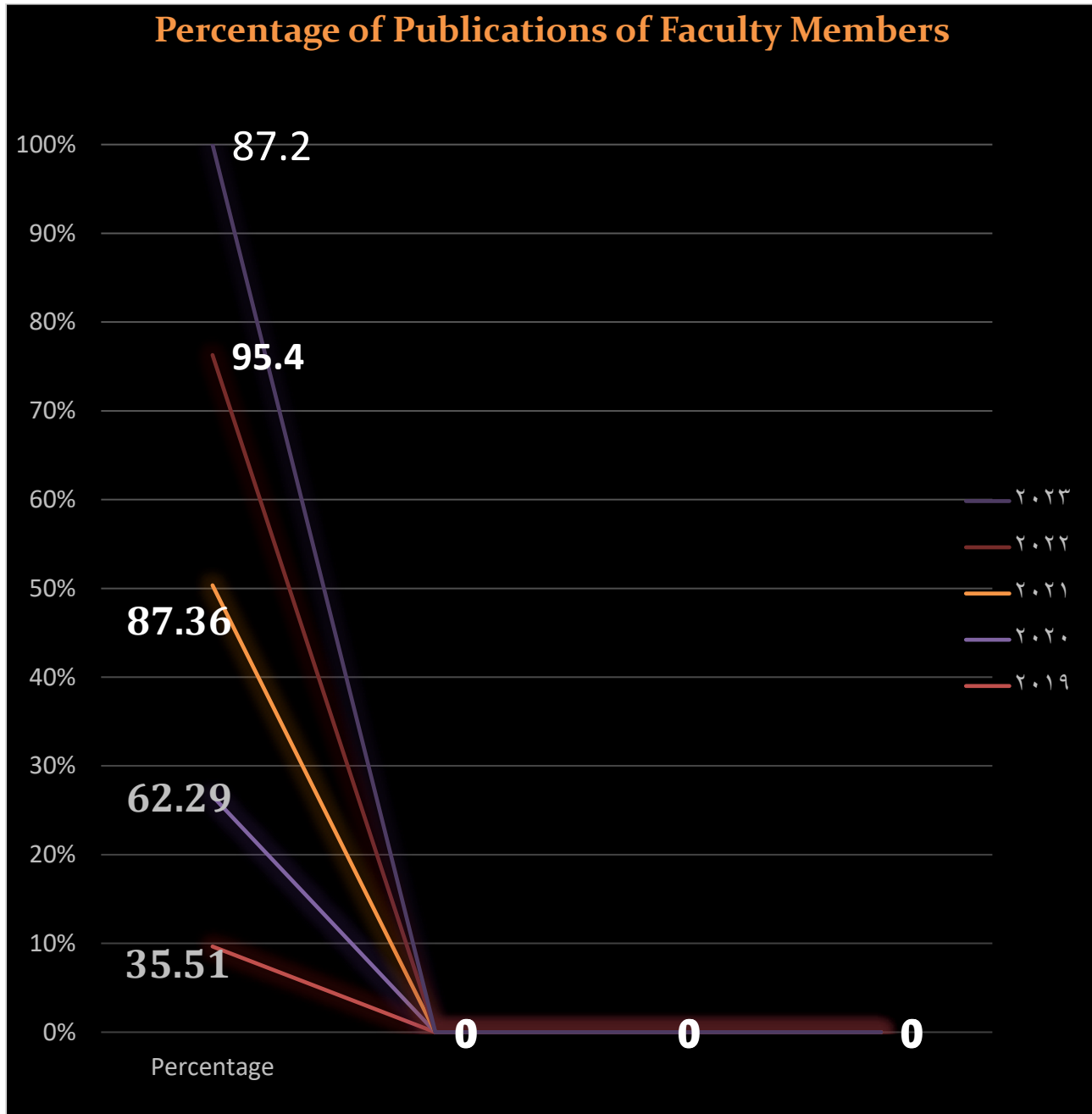
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55	Parents' Knowledge and Attitudes toward Preschool's Oral Health and Early Childhood Caries	International Journal of Clinical Pediatric Dentistry
56	Perception of dental students regarding possible career challenges and associated factors towards working in rural areas: A questionnaire based survey	Journal of Orthodontic Science
57	Periodontal Status of Patients Undergoing Treatment with Fixed Orthodontic Appliances Based on the Updated Classification: An observational study	Journal of International Dental and Medical Research
58	Relationship between Skeletal Maturity Indicators and Dental Calcification Stages in a Sample Pediatric Population	Indian Journal of Dental Research
59	Reporting Quality of the Abstracts for Randomized Controlled Trials in Pediatric Dentistry	European Journal of Dentistry
60	Role of various pharmacologic agents in alveolar bone regeneration: A review	National Journal of Maxillofacial Surgery
61	Sex determination using mandibular ramus flexure in South Indian population-A retrospective study	The Journal of Forensic Odonto-stomatology
62	Stress and Depression among Dental Students at Loma Linda University: A Descriptive Study	International Journal of Dental and Medical Research
63	Submandibular Duct Salivary Stone Perforating the Floor of the Mouth: Review of Literature and Case Series	Journal of International Dental and Medical Research
64	Submandibular Duct Salivary Stone Perforating the Floor of the Mouth:Review of Literature and Case Series	Journal of International Dental and Medical Research
65	Survival and success of composite resin restorations in endodontically treated maxillary incisors with minimal structure loss.	General Dentistry
66	The possible association between the different types of soft palate and gag reflex: A preliminary study: Types of soft palate and gag reflex	Brazilian Dental Science
67	The Potential Association Between Inflammatory Bowel Diseases and Apical Periodontitis: A Systematic Review and Meta-Analysis	European Endodontic Journal
68	Tooth as a Bone Graft Material: A Narrative Review.	European Journal of General Dentistry
69	Traditional and Modern Approaches in the Treatment of Skeletal Class II Malocclusion associated with a Severe Skeletal Open Bite: A Case Report	World Journal of Dentistry
70	Ultraviolet disinfection (UV-D) robots: bridging the gaps in dentistry	Frontiers in Oral Health
71	Unilateral vs Bilateral Maxillary Canine Impaction: A Cone-Beam Computed Tomography Study of Patterns and Associations	The Journal of Contemporary Dental Practice
72	Using Mobile Multimedia Platform for Teaching Radiographic Diagnosis	Journal of Indian Academy of Oral Medicine & Radiology

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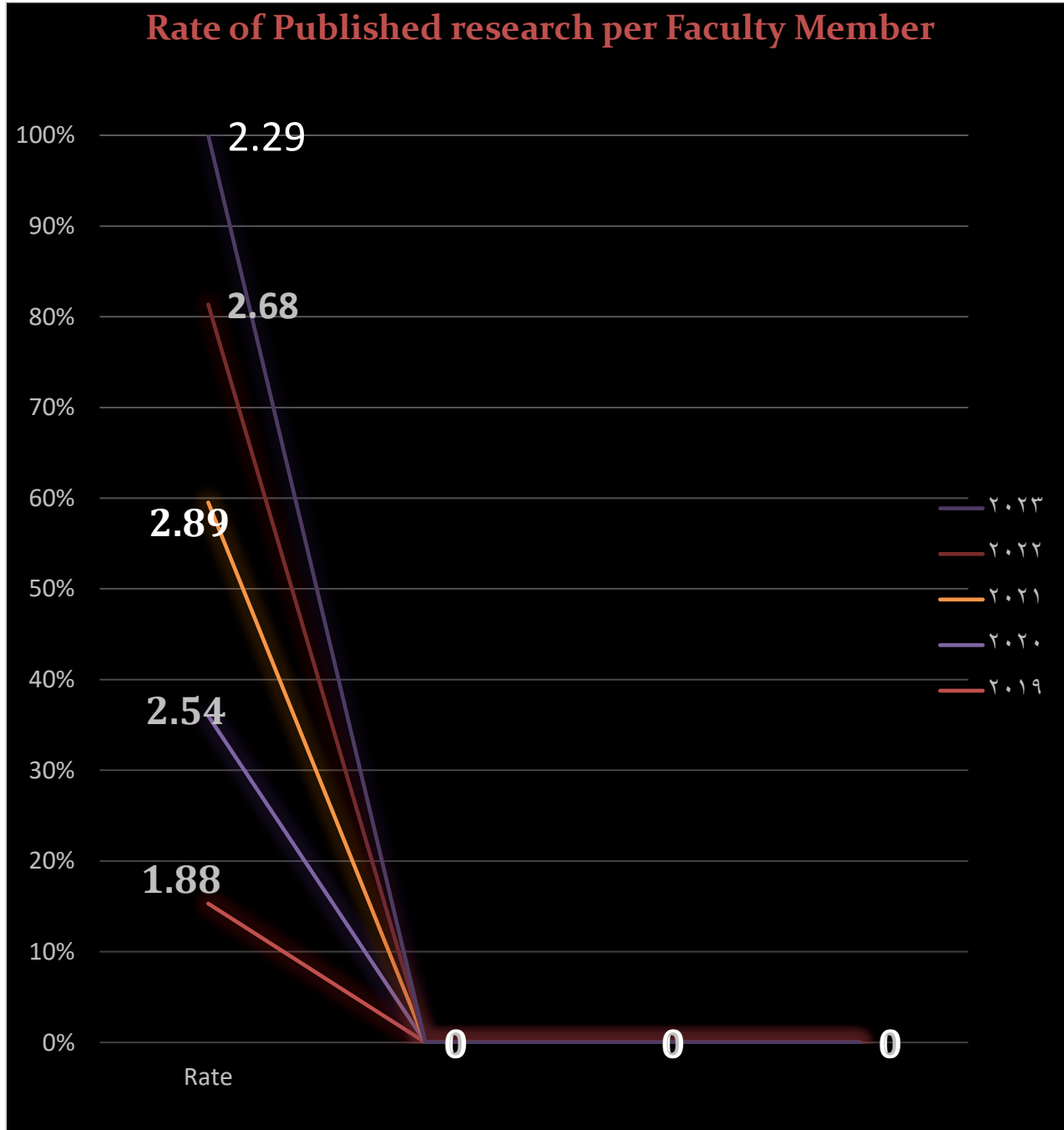
ACCOMPLISHMENTS IN SCIENTIFIC PUBLICATIONS- 2023-24

1. Percentage of Publications of Faculty Members:



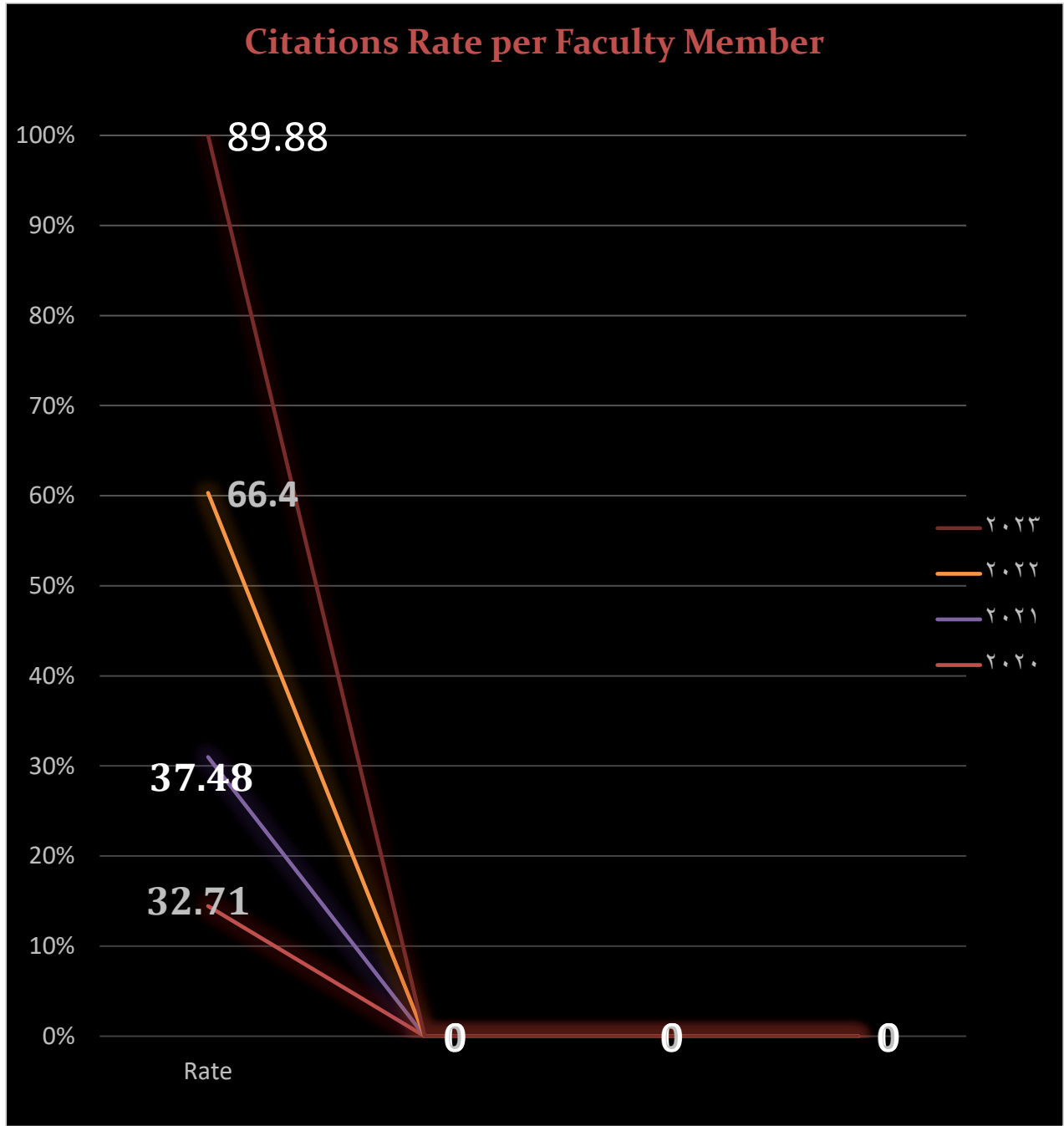
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2. Rate of published research per faculty member:



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3. Citation Rate per faculty member:



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CONCLUDING REMARKS

Scientific Research unit office under the Vice Deanship- Research and Development Scientific research; considered a pivotal role by providing assistance, guidance and appreciation to the faculty members and students thus achieving our goals to make this institution and its students grow into achievers.

This year comes up with accomplishment and achievements in terms of participation, dedication and promising growth in Research unit. Advanced topics with wide field of research interest has been seen this academic year which shows the growth and dedication of both students and staff in this institution. We witnessed growth in number of ISI publications this year too.

With this in mind, and based on the assumed role of research unit office, represented by the office of Vice Deanship- Research and Development; has consistently supported various research programs designed to utilize the creativity and enthusiasm of its faculty members and researchers to encourage, foster, and support innovations and creative ideas.

We extend our regards and gratitude to all the faculty members and students to be part of our endeavor to offer you an excellent platform to actively participate in Research and Innovation and for making this academic year a success through collective hard work and perseverance.

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RECOMMENDATIONS

1. Well organized, well-constructed and functioning structure for research unit to be established.
2. Inspire and persuade students to engage with active faculty research.
3. Encourage staff and students to apply for funds and patents.
4. Establish and implement programs & seminars to ensure quality research for faculty and students.
5. Establishing a software to track research activities.

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**Vice Deanship- Research and Development
Annual Research Report 2023-24**

OPERATIONAL PLAN- 2024-2025

Operational Plan- Scientific Research Unit- 2024-2025

Strategic Goal 11: Enhancing the culture of scientific research and evidence-based practice among the faculty and students:

Action Step 1: Strategic plan building and implementation to serve as a guiding force for research growth:

No.	Initiative	Time	Responsible
1	Implementation and regular follow-up of action steps.	August 2024- June 2025	Vice Dean- Research and Development Head- Scientific Research
2	Creation, modifications and rigorous applications of research policies and procedures.	August 2024- June 2025	Vice Dean- Research and Development Head- Scientific Research Unit

Action Step 2: Establishing well equipped Research laboratory

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No.	Initiative	Time	Responsible
1	To prepare policies and infrastructure design in collaboration with university for research laboratory center.	August 2024- June 2025	Vice Dean- Research and Development Head- Scientific Research Unit
2	Outfit Laboratory and office space for research Lab	August 2024- June 2025	Vice Dean- Research and Development Head- Scientific Research Unit

Action Step 3: Initiate research agreements with national and international partners

No.	Initiative	Time	Responsible
1	To expand clinical research partnerships with various governmental and non-governmental organizations	August 2024- June 2024	Vice Dean- Research and Development Head- Scientific Research Unit

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2	To develop various programs that provides both reputational and financial support thus generating research, and, contributes to priorities for economic development and diversification in KSA and the Region.	August 2023- June 2025	Vice Dean- Research and Development Head- Scientific Research Unit

Action Step 4: Encourage inclusion and mentorship of junior faculty members by senior researcher faculty members.:

No.	Initiative	Time	Responsible
1	Development and Implementation of junior faculty mentoring and research program.	August 2024- June 2025	Vice Dean- Research and Development Head- Scientific Research Unit
2	Helping them start their research career by providing amicable research environment and financial provisions necessary for establishing research base of materials and equipment.	August 2024- June 2025	Vice Dean- Research and Development Head- Scientific Research Unit
3	Encouraging senior faculty members to guide junior faculty members in developing a research vision.	Regular	Vice Dean- Research and Development Head- Scientific Research Unit.

Action Step 5: Encouraging student's participation in research activities with faculty members:

No.	Initiative	Time	Responsible
1	To organize seminars and workshops for student's awareness and encouragement in research orientation and participation.	Regular	Head- Scientific Research Unit Supervisor- Scientific Research Unit
2	Encouraging faculty members to actively involved students in research activity.	Regular	Head- Scientific Research Unit Supervisor- Scientific Research Unit
3	Continuous awareness for staff and student about upcoming grants and research program.	Regular	Vice Dean- Research and Development Head- Scientific Research Unit.

Action Step 6: Encouraging and assist faculty members to publish in high impact ISI journals

No.	Initiative	Time	Responsible
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1	Encouraging faculty members involvement in research, conference activities and publications.	Regular	Vice Dean- Research and Development Head- Scientific Research Unit.
2	Enlisting yearly ISI/ Scopus articles published by faculty/students.	August 2024- June 2025	Vice Dean- Research and Development Head- Scientific Research Unit.
3	Inclusion of Research activeness and involvement of faculties as one of the evaluation criteria.	August 2024- June 2025	Vice Dean- Research and Development Head- Scientific Research Unit.
4	Yearly rewards for publications in high impact/ISI journals	Regular	Vice Dean- Research and Development Head- Scientific Research Unit.

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