

**ASST. PROF. DR. SARHANG SARWAT
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I graduated with BDS Dentistry in 2005 from the University of Sulaimani, College of Dentistry. Following graduation, I completed Dental Vocational Training prior to working as assistant researcher in periodontics department for 2 years within College of Dentistry. I have been closely involved in research and teaching in periodontics over this period of time. I obtained MSc degree at same college in 2011 and MPhil plus PhD in periodontics from Sheffield University (UK) in 2013 and 2016, respectively.

I am involved in teaching all aspects of undergraduate Clinical Periodontology through the clinical supervision of students on the clinic, lectures, tutorials, clinical skill practical and seminars.

EDUCATION AND QUALIFICATIONS

2013-2016	University of Sheffield, UK- PhD in Periodontics.
2008-2010	University of Sulaimani- MSc in Periodontics.
2000-2005	University of Sulaimani- BDS.

CAREER

- 2022-present** Vice president of Scientific Affairs and Postgraduate Studies, Sulaimani Polytechnic University
- 2018-2022.** Dean of College of Dentistry, University of Sulaimani.
- 2020- present** Editor for Frontiers in Bioscience-Landmark.
- 2017-present** Associate Editor at Sulaimani Dental Journal.
- 2017-2019** Head of Higher Education and Scientific Research Department.
- 2016-present** Lecturer at Kurdistan Board for Medical Specialties.
- 2016-present** Lecturer: College of Dentistry, University of Sulaimani.
- 2013-2016** PhD student.
- 2010-2012** Assistant Lecturer: College of Dentistry, University of Sulaimani.
- 2008-2010** MSc student.
- 2006-2008** Assistant researchers: College of Dentistry, University of Sulaimani.
- 2005-2006** Dentist (Rotator): Piramerd Dental Center.

CLINICAL SKILLS

I have 17 years' experience as periodontist and can manage the following

- Understand and demonstrate the nature of periodontal and implant diseases
- Providing motivation and oral hygiene instruction for patients
- Comprehensive periodontal examination (BPE and full mouth chart)
- Assess a patient for the presence of etiologic factors and risk factors contributing to periodontal and implant diseases (Diabetes and smoking)
- Interpreting radiographical images.
- Diagnose periodontal and implant diseases
- Develop individualised treatment plan
- Presenting the sequence of treatment and prognosis for the patients.
- Providing all kind of periodontal treatment
 - Non surgical (Scaling, Root surface debridement)
 - Surgical treatment (Gingivectomy, gingivoplasty and all periodontal flaps)
 - Periodontal plastic surgeries (Free gingival graft, connective tissue graft, lateral and coronal repositioning flap)
- Providing maintenance therapy for patients
- Understanding the role of other fields of dentistry to periodontal health.

Furthermore, I do have interest and skill in **dental implant** including:

- Assessment and treatment planning
- Implant placement
- Integration period
- The restorative phase
- Maintenance

PROFESSIONAL ACTIVITIES

- 2012- present British Society of Periodontology (BSP).
2012- present European Federation of Periodontology (EFP).
2012- present British Society for Oral and Dental Research (BSODR).
2012- present International Association of Dental Research (IADR).
2013- present Iraqi Division of the IADR (IAOR).
2005- present Kurdistan Dental Association (KDA).

INTERNATIONAL CONFERENCE PRESENTATIONS

- 2013** Leeds-Sheffield Conference, Leed Dental school, UK (Oral presentation).
2014 IADR-Croatia (Oral presentation).
2014 British Society for Oral and Dental Research / IADR - Croatia (Poster).
2014 British Society of Periodontology-Birmingham, UK (Poster).
2014 Sheffield-Leeds Conference, Sheffield, UK (Oral presentation).
2015 EuroPerio 8 London, Uk (Oral presentation).
2015 *P. gingivalis* and other oral related species, London, UK (Poster)
2015 British Society for Oral and Dental Research, Cardiff, UK (Oral presentation)
2016 British Society of Periodontology, Oxford, Uk (Oral presentation)
2018 International Conferece of Oral Sciences, Erbil, Iraq (Oral presentation)
2018 EuroPerio 9 Amesterdam, Netherland (Poster Discussion)
2022 International Dental Conference, Baghdad, Iraq (Oral presentation)

RESEARCH INTERESTS

My main research interests include:

- Clinical trials in periodontal therapy.
- Diagnostic and prognostic biomarkers for periodontitis.
- Risk factors for periodontal disease.
- Periodontal inflammation and systemic inflammatory conditions.
- Epidemiology and microbiology of periodontitis.

Supervisory experience

- Mentored one PhD and three Board students at Sheffield University.
- Supervised 2 Board periodontics students in KBMS.
- Supervised 1 MSc Periodontics student.
- Currently supervising 2 PhD, 3 MSc and 1 high diploma students.

PUBLICATIONS

A. Journal Papers

AH Rashid, SS Gul, HA Azeez, SH Azee (2023). Extraction of Cuminum cyminum and Foeniculum vulgare Essential Oils and Their Antibacterial and Antibiofilm Activity against Clinically Isolated Porphyromonas gingivalis and Prevotella intermedia: An In Vitro Study. Applied Sciences. 2023; 13(14):799

Ali A Abdulkareem, Firas B Al-Taweel, Ali JB Al-Sharqi, Sarhang S Gul, Aram Sha, Iain LC Chapple (2023). Current concepts in the pathogenesis of periodontitis: from symbiosis to dysbiosis. Journal of Oral Microbiology. 15(1): 2197779

Tavga Mustafa Faris, Rukhosh Hasan Abdulrahim, Mohammed Abdalla Mahmood, Gollshang Ahmad Mhammed Dalloo and Sarhang Sarwat Gul (2023). In vitro evaluation of

dental color stability using various aesthetic restorative materials after immersion in different drinks. BMC Oral Health. 23(1):1-7.

Awder Nuree Arf, Fadil Abdullah Kareem, Sarhang Sarwat Gul (2023). Dispersion and Homogeneity of MgO and Ag Nanoparticles Mixed with Polymethylmethacrylate. Polymers. 15(6):1479.

Abdulsalam LO, Gul SS. (2022) Validity of a Self-reported Questionnaires for Periodontitis in a Kurdish Population of Sulaimani City/Iraq. Sulaimani Dent J. 9(2):11-22.

Rasheed AH, Gul SS, Azeez HA. (2022) Antibacterial and Antibiofilm Profiles of Thymus Vulgaris Essential Oil on Clinically Isolated Porphyromonas Gingivalis and Prevotella Intermedia: An in vitro Study. Sulaimani Dent J. 9(2):53-63.

Najm KK, Gul SS. (2022) Evaluation of 5-Aminolevulinic acid, Methylene Blue, Toluidine Blue O Photosensitizers on Clinically Isolated Porphyromonas gingivalis and Prevotella intermedia: An in vitro Study. Sulaimani Dent J. 9(2):81-90.

FA Kareem, RF Mohammad, FM Zardawi, SS Gul. (2022) Knowledge about Hepatitis B Virus and Relevant Safety Precautions among Dental Students in Kurdistan Region, Iraq. Journal of Environmental and Public Health, Volume 2022, Article ID 8516944, 8 pages

Mohammed, H.A.; Abdulkareem, A.A.; Zardawi, F.M.; Gul, S.S. (2022) Determination of the Accuracy of Salivary Biomarkers for Periodontal Diagnosis. Diagnostics 2022, 12, 2485.

<https://doi.org/10.3390/diagnostics12102485>

Mohammad, C.A.; Ali, K.M.; Al-Rawi, R.A.; Gul, S.S. (2022). Effects of Curcumin and Tetracycline Gel on Experimental Induced Periodontitis as an Anti-Inflammatory, Osteogenesis Promoter and Enhanced Bone Density through Altered Iron Levels: Histopathological Study. Antibiotics, 11, 521

Chenar Anwar Mohammad, Khadeeja Mohammed Ali, Aram Mohammed Sha, Sarhang Sarwat Gul. (2022). Antioxidant Effects of Curcumin Gel in Experimental Induced Diabetes and Periodontitis in Rats. BioMed Research International. Article ID 7278064, <https://doi.org/10.1155/2022/7278064> .

Raghad Fadhil, Hadeel Mazin Akram, Ayser Najah, Sarhang Sarwat Gul. (2022). Association of matrix metalloproteinase-1-1607 1G/2G single nucleotide polymorphism genotypes with periodontitis in Iraqi population. Braz Dent Sci 2022 Oct/Dec;25 (3): e3283. DOI: <https://doi.org/10.4322/bds.2022.e3283>.

Rashid, Z.J.; Gul, S.S.; Shaikh, M.S.; Abdulkareem, A.A.; Zafar, M.S. (2022). Incidence of Gingival Black Triangles following Treatment with Fixed Orthodontic Appliance: A Systematic Review. Healthcare, 10, 1373. <https://doi.org/10.3390/>

Muhanad L. Alshami, Ali A. Abdulkareem, Sarhang S. Gul, Yasir A. Shareef. (2022). Impact of COVID-19 on the frequency of dental appointments and types of dental health care services. Den9stry 3000. 1:a001 doi:10.5195/d3000.2022.194

Gul, S.S.; Zardawi, F.M.; Abdulkareem, A.A.; Shaikh, M.S.; Al-Rawi, N.H.; Zafar, M.S. (2022). Efficacy of MMP-8 Level in Gingival Crevicular Fluid to Predict the Outcome of Nonsurgical Periodontal Treatment: A Systematic Review. Int. J. Environ. Res. Public Health, 19, 3131

A Abdulkareem, H Abdulbaqi, S Gul, M Milward, N Chasib, R Alhashimi. (2022). Classic vs. Novel Antibacterial Approaches for Eradicating Dental Biofilm as Adjunct to Periodontal Debridement: An Evidence-Based Overview. Antibiotics 11 (1), 9

Ahmed AF, Naser RJ, Gul SS, Abdulkareem AA. (2022). Association between self-reported oral disease/conditions and symptoms of depression among Iraqi individuals. Spec Care Dentist. DOI: 10.1111/scd.12698

Ayob O. Mohammed, Faraedon M. Zardawi, Sarhang S. Gul. A Retrospective CBCT Survey on Severity and Pattern of Alveolar Bone Loss Among a Selected Sample in the City of Sulaimani, Kurdistan Region of Iraq. **(2021)**. *Sulaimani Dent J.* 8(2):10-17.

Ali A Abdulkareem, Nada K Imran, Rukhosh H Abdulaheam, Sarhang S Gu. **(2021)**. Prevalence and factors influencing reporting of true periodontal chief complaints: A retrospective analysis. *Clin Exp Dent Res.* 7(4):443-449.

Nibras H. Chasib, Muhanad L. Alshami, Sarhang S. Gul, Hayder R. Abdulbaqi, Ali A. Abdulkareem, Salah A. Al-Khdairy **(2021)**. Dentists' Practices and Attitudes Toward Using Personal Protection Equipment and Associated Drawbacks and Cost Implications During the COVID-19 Pandemic. *Front Public Health.* 18;9:770164.

Zaid A Al Marah, Ali A Abdulkareem, Sarhang S Gul, Muhanad L Alshami **(2021)**. A Survey of Systemic Antibiotic Prescription Patterns Amongst Iraqi Dentists. *Int Dent J.* 31;S0020-6539(21)00111-8.

HR Abdulbaqi, MS Shaikh, AA Abdulkareem, MS Zafar, SS Gul, AM Sha. Efficacy of erythritol powder air-polishing in active and supportive periodontal therapy: A systematic review and meta-analysis **(2021)**. *Int J Dent Hyg.*

Periodontal disease status and treatment need among a Kurdish population in Sulaimani-Iraq as assessed by CPITN index **(2021)**. *SS Gul. EDJ.* 4(1):61-67.

Decoding of periodontal screening and recording index **(2021)**. *DA Kursheed, FM Zardawi, HM Ismail, AM Rauf, SS Gul. EDJ.* 4(1):33-39.

AF Mahdee, SS Gul, AA Abdulkareem, SSB Qasim **(2020)**. Anxiety, Practice Modification, and Economic Impact Among Iraqi Dentists During the COVID-19 Outbreak. *Front. Med.* 7: 595028.

AM Sha, BT Garib, SH Azeez, SS Gul (2020). Effects of curcumin gel on osteoclastogenic bone markers in experimental periodontitis and alveolar bone loss in wistar rats. *J Dent Sci.* 16(3):905-914.

LK Mohammed, SS Gul (2020). Diagnostic Potential of Salivary Biomarker Profiles in Epidemiological Survey of Periodontitis. *Sulaimani Dent. J.* 7(2):36-44

SS Gul, AA Abdulkareem, AM Sha, A Rawlinson (2020). Diagnostic Accuracy of Oral Fluids Biomarker Profile to Determine the Current and Future Status of Periodontal and Peri-Implant Diseases. *Diagnostics.* 18;10(10):838.

A Ali, S Saliem, A Abdulkareem, H Radhi, S Gul (2020). Evaluation of the efficacy of lycopene gel compared with minocycline hydrochloride microspheres as an adjunct to nonsurgical periodontal treatment: A randomised clinical trial. *J Dent Sci.* 16(2):691-699.

SJ Hamalaw, FA Kareem, SS Gul (2020). Association of dental and gingival health status with level of salivary characteristics and *Streptococcus mutans* in children. *J Dent Sci.* 16(2):744-750

F Zardawi, SS Gul, AA Abdulkareem, A Sha, J Yates (2020). Association between periodontal disease and atherosclerotic cardiovascular diseases: revisited. *Front. Cardiovasc. Med.* 15;7:625579.

MT Baban, RM Talabani, MO Rashid, DS Abdulateef, SS Gul, BN Abdulkareem, RO Salih RO (2020). Prevalence of Apical Periodontitis by Cone Beam Computed Tomography: A Cross Sectional Study. *Sulaimani Dent. J.* 7(2):45-53

AlTaweel FB, AA Ali, Gul SS, Alshami ML (2020). Evaluation of technology-based learning by dental students during the pandemic outbreak of corona virus disease 2019. *Eur J Dent Educ.* 25(1):183-190

Gul SS, Imran NK, Al-Sharqi AJ, Abdulkareem AA (2020). Association of overweight/obesity with the severity of periodontitis using BPE code in an iraqi population. *Clin Epidemiol Glob Heal*.9:21–5.

Qasim SB, Al-Otaibi D, Al-Jasser R, Gul SS, Zafar SZ (2020). An evidence-based update on the molecular mechanisms underlying periodontal diseases. *Int J Mol Sci*. 21(11), 3829.

Zardawi FM, Gul SS, Fatih MT, Hama BJ (2020). Surgical procedures reducing excessive gingival display in gummy smile patients with various etiologic backgrounds. *Clin Adv Periodontics*. 10(3):130-134.

Gul SS, Zardawi FM, Sha AM, Rauf AM (2019). Assessment of creeping attachment after free gingival graft in treatment of isolated gingival recession. *J Int Acad. Periodontol*. 21(3):125–131.

Rashid MO, Talabani RM, Baban MT, Gul SS, Salih RO, Abdulkareem BN, Abdulalttef DS (2019). Prevalence of impacted mandibular third molars and its association with distal caries in mandibular second molars using cone beam computed tomography. *J Oral Res*. 8(1):66-73.

Fatih MT, Zardawi FM, Gul SS (2019). Significance of the width of keratinized mucosa on peri-implant tissue health: a cross-sectional analysis. *Sulaimani Dent J*. 6(1):21-28.

Zardawi FM, Gul SS, Hama BJ, Khursheed DA (2019). Double lip, a review of literature and a case report. *Sulaimani Dent J*. 5(2):39-43

Alwan AH, Zardawi FM, Gul SS, Hussain AB (2018). Prevalence and distribution of gingival pyogenic granuloma in Sulaimani population Kurdistan region–Iraq. *Biomedical & Pharmacology Journal*. 11(1):1-7.

Ghalib AN, Gul SS, Abdulkareem JF (2017). Relationships of candida with frequency of brushing, age and smoking in patients with removable dental prosthesis: a quantitative study. Sulaimani Dent J. 4(1):12-18.

Zardaw FM, Khursheed DA, Zorab SS, Gul SS (2017). Self-reporting questionnaire on gingival bleeding among dental students at university of Sulaimani. Sulaimani Dent J. 4(1):25-29.

Gul SS, Griffiths GS, Stafford GP, Al-Zubidi MI, Rawlinson A, Douglas CWI (2017). Investigation of a novel predictive biomarker profile for the outcome of periodontal treatment. Journal Periodontol. 88(11):1135-1144.

Gul SS, CWI Douglas, GS Griffiths, A Rawlinson (2016). A pilot study of active enzyme levels in gingival crevicular fluid of patients with chronic periodontal disease. J Clin Periodontol, 43(8): 629-36.

Garib BT, Qaradaxi SS (2011). Temporomandibular joint problems and periodontal condition in rheumatoid arthritis patients in relation to their rheumatologic status. J Oral Maxillofac Surg. 69(12):2971-2978.

B. Conference Papers

- A Study of Biomarkers in Patients with Periodontal Disease. IADR Dubrovnik, Croatia 2014.
- A Study of Crevicular Fluid Biomarkers in Patients with Periodontal Disease, BSODR Dubrovnik, Croatia 2014.
- A Study of Crevicular Fluid Biomarkers in Patients with Periodontal Disease, British Society of Periodontology Birmingham, UK 2014.

- A Study of Biomarkers in Patients with Periodontal Disease EuroPerio 8, London, UK 2015.
- Characterisation of a temperate phage residing in the genome of the anaerobic bacteria *Fusobacterium nucleatum polymorphum* EuroPerio 8, London, UK 2015.
- A study of microbiological biomarkers as indicators of periodontal treatment outcome. The 2nd international conference on *Porphyromonas gingivalis* and related species in oral and systemic diseases London, UK 2015.
- A Study of Biomarkers in Patients with Periodontal Disease. BSODR Cardiff, UK 2015.
- Characterisation of a Temperate Phage Residing in the genome of the Anaerobic Bacteria *Fusobacterium nucleatum polymorphum* ATCC 10953. BSODR Cardiff, UK 2015.
- Investigation into the potential for key biomarkers to predict the outcome of periodontal treatment. British Society of Periodontology, Oxford, UK 2016.
- Pinhole Surgical Technique for Treatment of Gingival Recessions: A Case Series. Sulaimani Dental Meeting, Sulaimani, Iraq 2017.
- Periodontal Care Prior to, During and Following Orthodontic Treatment. ICOS III, Erbil, Iraq 2018.
- Assessment of Creeping Attachment after Free Gingival Graft in Treatment of Isolated Gingival Recession. EuroPerio 9, Amsterdam, Netherland 2018
- Surgical vs non-surgical periodontal treatment: what to choose?. Kin Conference, Sulaimani, Iraq 2019.

REFERENCES

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