Narges Bayat

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Summary

As a specialist in Oral and Maxillofacial Radiology, I have a strong passion for teaching, driven by my extensive background in research, academic writing, patent registration, and proficiency in English. One of my enduring aspirations has always been to impart knowledge and expertise to the next generation, a goal that I continue to pursue with enthusiasm and dedication. My experiences have not only honed my technical skills but have also deepened my commitment to education and mentorship in this dynamic field.

EDUCATIONAL BACKGROUND

۲۰۲۳	**۲nd** Rank in the National Board Examination
۲۰۲۳-۲۰۲۰	Resident, Department of Oral and Maxillofacial Radiology, Faculty of Dentistry, Tabriz University of Medical Sciences. Tabriz, Iran.
۲۰۱۸-۲۰۱۲	Doctor of Dental Surgery (DDS), Faculty of Dentistry, Zanjan University of Medical Sciences. Zanjan, Iran.

Peer-review experience

• reviewer of the Journal of "European Journal of Dental Education".

• The reviewer of the Journal of "European Journal of Dentistry".

Book Authorship

Oral and Dental Health in Children

LANGUAGE SKILLS:

- Persian: Native Language
- English: Professional writing and speaking

Work Experience

Assistant Professor, Faculty of Dentistry, Tabriz University of Medical Sciences

Educational Development Office (EDO) Coordinator, Department of Oral and Maxillofacial Radiology, Tabriz University of Medical Sciences

Clinical Dentist, Special Dental Clinic, Faculty of Dentistry, Tabriz University of Medical Sciences

Thesis Supervision

Differential diagnosis of cemento-osseous dysplasia and ossifying fibroma in CBCT images using texture analysis

Evaluation of trabecular bone changes in the condyle after Class III orthognathic surgery using fractal analysis

Bone pattern analysis in recurrence of odontogenic keratocyst in CBCT images using texture analysis

Predictive value of texture analysis in root resorption following orthodontic treatment

Diagnostic accuracy of different voxel sizes in CBCT for detection of vertical root fractures in teeth with and without posts

Comparison of articular eminence inclination on panoramic radiographs in different types of partial edentulism

Application of fractal analysis in predicting dental implant osseointegration

Prevalence of maxillary sinus abnormalities on panoramic radiographs and their clinical correlation

Effect of voxel size variation on CBCT assessment of bone loss due to restorative overhang

Impact of oral vitamin D^{۳} and zinc supplementation on bone density and implant osseointegration

Correlation between nocturnal bruxism and pulp calcifications in CBCT images

Assessment of maxillary and mandibular trabecular bone structure in CBCT images of bruxism patients

Association between sinus membrane thickness and residual bone height in CBCT images

Conference Presentations & Scientific Lectures

- Applications of Medicinal Plants in Pediatric Dentistry
- The Role of Dental Pulp Stem Cells in Regenerative Therapy
- Applications of Medicinal Plants in Endodontics
- Radiographic texture analysis of the hard tissue changes following socket preservation with allograft and xenograft materials for dental implantation: A randomized clinical trial

PUBLICATIONS

١. **Radiographic texture analysis of the hard tissue changes following socket preservation with allograft and xenograft materials for dental implantation: a randomized clinical trial.** Oral and Maxillofacial Surgery. 2023 Nov 20:1-9. 1st Author.

٢. **Genotoxic and Cytotoxic Effects of Dental Radiographic Modalities on Buccal Mucosal Cells in Children**. Journal of Child Science. 2023 Jan;13(01):e113-7. Corresponding Author.

٣. **Efficacy of a mobile phone application for the improvement of oral hygiene of patients undergoing fixed orthodontic treatment: A randomized controlled clinical trial. Journal of Orofacial** Orthopedics/Fortschritte der Kieferorthopädie. 2023 Sep 2:1-8. Co-author.

٤. **Quality and quantity of bone at intraoral graft donor sites in type 2 diabetic patients versus healthy controls: A cone-beam computed tomography study**
Journal of Oral Health and Craniofacial Science 2023; 8: 007-015. – Co-author, 2023.

٥. **Condylar position on cone-beam computed tomography images and its correlation with condylar size on panoramic radiographs**
Journal of stomatology, Accepted (in production). 1st Author, 2023.

٦. **Comparison of the accuracy of cone-beam computed tomography and digital periapical radiography for quantification of bone demineralization by the subtraction technique**
Dentomaxillofacial Radiology – Under Peer-review 2023. 3rd Author.

٧. **Evaluation of the changes in trabecular bone density of angle and condyle regions of the mandible before and after COVID-19 contraction using fractal analysis**
Dentomaxillofacial Radiology – Under Peer-review 2023. 2nd Author.

٨. **Polarography Can Successfully Quantify Heavy Metals in Dentistry.** Medicina. 2022, 2nd Author.

٩. **Early diagnosis of oral manifestation in HIV infected pediatric patients, a review of current literature**. Pediatr Neonatal Biol. 2016;3:001. 3rd Author.