

Curriculum Vitae Shima Esmailzadeh Aghimi

Dr. Shima Esmailzadeh Aghimi

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Educational Background

_ **Ph.D Candidate** in Dental Biomaterials at Tehran University of Medical Sciences (TUMS)
,Tehran ,Iran from 2017 to present

_ **Doctor of Dentistry Sciences (D.D.S)** , Tehran University of Medical Sciences (TUMS),
International Campus, Tehran , Iran (2007 to 2014)

- Thesis carried out under supervision of Dr. Sareh Habibzadeh entitled :
“Fracture resistance of zirconia, cast Ni-Cr, and fiber glass composite posts under
all-ceramic crowns in endodontically treated premolars”
- High school graduated in Exemplary Meraj school (2000-2003)
- Middle school graduated in Exemplary Parvin Etesami school (2003-2007)

Research Interests

- _ Synthesis of materials with remineralization effect
- _ Use stem cells to regenerate new tissue or organs
- _ Smart materials which have ability to control releasing the drugs or supplements
- _ Nanostructure design of materials to increase the mechanical properties of them

Research Experience:

_ I have been working in metallurgy lab since 2011, for my D.D.S thesis and after that for my
Ph.D course of dental biomaterials. In that period I have gotten a knowledge around these
topics :

- Synthesis of ceramic blocks for CAD-CAM
- Work with CAD-CAM

- Design the injectable appliance for impression materials inside the root canal like acryl duralay
- Mold the zirconia post with CAD-CAM
 - Mechanical characterization of zirconia, fiber glass and cast Ni-Cr
 - Apply mechanical tests with UTM (Universal Testing machine)
 - Formulation and synthesis of dental composites
 - Measure the abrasion rate of different tooth pastes
 - Measure the fracture strength of new synthetic amalgam
 - Apply ISO test for new synthetic type of zinc oxide eugenol
 - Formulation different dental materials like; dental composite, adhesive, biopolymer, cement, impression dental material,...

Publications and Presentations

_ Teaching instruments and steps of dental treatments for dental assistance in Jahad institute of Shahid Beheshti

_ "Fracture resistances of zirconia, cast Ni-Cr, and fiber-glass composite posts under all-ceramic crowns in endodontically treated premolars" Sareh Habibzadeh, Hamid Reza Rajati, Habib Hajmiragha, Shima Esmailzadeh, Mohamad javad Kharazifard, <https://doi.org/10.4047/jap.2017.9.3.170>

-“Outcome of Different Processing Methods on Mechanical and Physicochemical Properties of Human Dentin as a Potential Natural Scaffold” Yasaman Erfan, Tahereh Sadat Jafarzadeh Kashi, Fahimeh Tabatabaei, Seyyed Mostafa Fatemi, Shima Esmailzadeh, Babak Seraj & Marjan Behroozibakhsh, <https://doi.org/10.1007/s40883-020-00185-9>

-“Resistance to demineralisation of adjacent enamel and dentine, fluoride release and dentine bond strength of fluoride-containing self-etch adhesive systems

Maryam Pirmoradian , Shima Esmailzadeh , Sotoudeh Davaie , Bahaa-Abdulrazzaq-Jerri
Albakhakh , Bahareh Sanaee , Elnaz Asgari , Kiana Shekofteh , Sareh Habibzadeh , Marjan
Behroozibakhsh , DOI: 10.4317/jced.56170

-“Application of Clay’s in Drug Delivery in Dental Medicine” Publisher : Scholars' Press (August
31, 2020) , Language : English, ISBN-10 : 613894058X , ISBN-13 : 978-613894058