

# 28<sup>th</sup> International Conference on Dental Research & Future Dentistry

October 27<sup>th</sup> 2022 | Webinar



**Scientific  
Tracks**

**Future Dentistry  
2022**

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## Curve of spee: Speed of leveling using different orthodontic arch wire size and material – a randomized clinical trial

### Aims:

To evaluate the efficiency of 3 different rectangular archwires in the correction of curve of Spee (COS), to record the time needed to level excessive COS in the mandibular arch, and to detect the root resorption in the lower anterior teeth associated with leveling excessive COS using the 3 different archwires.

### Subjects and Methods:

Fifty-one subjects with excessive COS were included in this study. The subjects were randomly divided into three groups to level COS; Group one (17 patients): 0.017X0.025-inch stainless steel archwire. Group two (17 patients): 0.019X0.025-inch stainless steel archwire. Group three (17 patients): 0.021X0.025-inch Titanium molybdenum archwire. In the three groups, a 5mm depth reverse COS was inserted. Records consisted of study casts (pre-treatment and at each time point during the study) and peri-apical radiographs (at T0 and T5). Patients were followed up on monthly visits without removing leveling archwires where alginate impressions were taken for the lower arch.


### Results:

The overall COS leveling was on average reduced by 3.930.77 mm, 4.870.73 mm and 4.040.88 mm in groups 1, 2, and 3, respectively ( $P < 0.001$ ). Duration of excessive COS leveling was on average 6.070.47 months, 5.730.45 months and 6.250.22 months in groups 1, 2, and 3 respectively. Root resorption was detected in the lower right central incisor and canine mostly in group 3 subjects with the differences between groups were at ( $P < 0.05$ ).

Conclusion: 0.019X0.025 SS archwire was the most efficient archwire in leveling COS with less time than the other 2 archwires. Root resorption of lower right central incisor and canine when 0.021X0.025 TMA archwire was used for leveling

### Biography:

Yousef Nasrawi graduated from Jordan [University of Science and Technology](#) in 2015 and was among the top 10% of the batch. In the following two years, in 2016 Yousef Nasrawi received a membership in the [Royal College of Surgeons](#) – Ireland, and in 2017 Yousef Nasrawi received another membership in the [Royal College of Surgeons and Physicians](#) – Glasgow. In 2020 he have finished his Master's degree in [Orthodontics](#) from Jordan University of Science and Technology, and in the same year, he had obtained the American Dental Board. He is working currently in both clinical practices and in Jordan University of science and technology as a lecturer. His main interests are in orthodontics generally and in contributing to the advanced technological methods in biomechanics specifically.



**Dr. Yousef Nasrawi**  
Jordan University of Science  
and Technology, Jordan

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## Oral health related quality of life (ohrqol) in orthodontics

### Abstract:

Despite its relatively recent emergence over the past few decades, oral health-related quality of life (OHRQoL) has important implications for the clinical practice of dentistry and dental research. OHRQoL is a multidimensional construct that includes a subjective evaluation of the individual's oral health, functional well-being, emotional well-being, expectations and satisfaction with care, and sense of self. It has wide-reaching applications in survey and clinical research. OHRQoL is an integral part of general health and well-being. In fact, it is recognized by the World Health Organization (WHO) as an important segment of the Global Oral Health Program (2003). This presentation identifies the what, why, and how of OHRQoL and presents an oral health theoretical model. The relevance of OHRQoL for dental practitioners and patients in community-based dental practices is presented.

### Biography:

Dr. Huda Abutayyem an experienced academic with an enviable track record in both research and professional Orthodontics. She has been actively involved in the teaching and supervision of students. She also has served on several administration and institutional committees. She has several publications in indexed journals.

**Dr. Huda Abutayyem**

*Assistant Professor and Specialist  
in Orthodontics.*

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## Comparison of serum and dietary selenium levels in participants with a positive history of recurrent herpes lesions and healthy individuals

### Aim:

In this study, we aimed at comparing the level of serum and dietary selenium in participants with positive history of recurrent herpes labial lesions and healthy controls.

### Materials and Methods:

This cross sectional study, conducted during 2020-2021, evaluated the selenium serum level of 40 participants with positive history of recurrent herpes labial lesions who had referred to Motahhari laboratory in Shiraz, compared with 38 healthy controls. The selenium level of serum was assessed by an absorption device, Atomic Graphite Furnace Model FS-240-AAS, made by a US Company. Independent T test was used to compare the selenium level of males and females. In order to assess the mean age value and gender distribution between the two evaluated groups, independent T test and chi square were used, respectively. The serum selenium level was compared between both control and test groups.

### Results:


The level of serum selenium was not statistically correlated with its dietary level in group 1 (participants with recurrent herpes labialis, P.value=0.18) and group 2 (healthy controls, P.value=0.6). The serum selenium level was compared between group 1 and 2, which was significantly higher in healthy controls (P.value<0.0001). In contrast, selenium Dietary level was not significantly different between patients with a history of herpes labialis and healthy controls. (P.value=0.48). The level of serum selenium was not statistically correlated with its dietary level in group 1 (P.value=0.18) and group 2 (P.value=0.6).

### Conclusion:

Patients with recurrent herpes labialis have lower serum selenium level as compared to the healthy controls.

### Biography:

Maryam is a dentist, graduated from Shiraz University of [Medical Science](#) in 2021, she is also a research assistant for the [Oral Health Department](#) and in addition she studies MDPH (Master of Dental Public Health) at Tehran [University of Medical Science](#). She is currently working part-time as a teaching assistant at Kerman University of Medical Science. She has published more than 5 original research papers for journals. Her current researches focus are Oral cancers, Oral Health, Orofacial pain, Oral biology and public health.



**Dr. Maryam Shahrokhi Sardoo**  
Shiraz university of medical  
science.

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## Intramuscular hemangioma of the orofacial region: Literature review and a case report

### Abstract:

Intramuscular hemangiomas are unique vascular tumors. They are benign in nature, most commonly occurring in the trunk of extremities. In the head and neck region, they are present and constitute less than 1% of body hemangiomas. We report a case of a 21-year-old Sudanese male patient who presented to our clinic with a fluctuant swelling of the left cheek that was gradually increasing in size over the past 7 months. Preoperative magnetic resonance angiography (MRA) showed a vascular tumor on the left cheek adjacent to the buccinator and masseter muscles. The lesion was injected with hot saline every two weeks for more than two months till the tumor became fibrosed and firm. Surgical excision under general anesthesia was performed via an extra-oral approach. The external carotid artery was ligated. Quilting around the tumor was performed, and the mass was excised safely and uneventfully. In conclusion, Intramuscular hemangiomas should be considered in the differential diagnosis of musculoskeletal pain associated with fluctuant soft tissue swellings. Hot saline is an effective sclerosing agent, that can be used in the management of soft tissue hemangiomas safely and effectively. Both quilting and ligation of the external carotid artery are helpful and effective in decreasing bleeding when excising such tumors

### Biography:

A Researcher and a [Public Health](#) professional with over 5 years of consistent experience in [Emergency](#) and [Outbreak Control](#), Risk [Management](#), [Disease Control](#), [Program Management](#) and [Program Coordination](#).



Dr. Mohamed Omer Mohamed  
Widaa  
Sudan

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