

## Association between Oral Tori, Occlusal Biting Force and Mandibular Cortical Index

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Previous studies evaluated the effects of environmental and genetic factors on occurrence of oral tori. Results of the relationship between presence of tori, occlusal biting forces and mandibular cortical index (MCI) were not conclusive. The objectives of the current study are to assess the relationship between occurrence of oral tori, occlusal biting forces and MCI in a selected sample of Jordanians, to establish the relationship between MCI readings with Klemitti's class and to explore the association between different variables. 130 Jordanians of both genders who met the inclusion criteria were examined and divided to 65 tori subjects and 65 age and gender matched controls. Examination was performed to confirm the presence/absence of tori. Size, shape and location of tori were recorded from the obtained study casts. Measurements were carried out using digital calipers (0.01mm). Biting force was recorded in Newton's using a portable occlusal force gauge (GM10, Nagano Keiki, Tokyo, Japan). MCI and Klemitti's classification was reported by two radiologists on panoramic radiographs. The mean was calculated for continuous variables. Frequency distribution of categorical variables was provided. Weighted Kappa analysis test for inter-observer agreement of MCI and Klemitti's classification. Logistic regression to test the adjusted effect of confounders on the outcome. The average Bite force was significantly higher in tori subjects by 100 N compared to control subjects and was higher in males compared to females. Klemetti classes and MCI were both affected by occlusal biting force. An average was used to assess the relation between MCI and Klemetti classes.

### Biography:

Dr. Ala'Al-Daqaq completed her Master in Clinical Dentistry Prosthodontics in Jordan University of Science and Technology 2016 at the age of 29<sup>th</sup> and she has published two case reports during Post-graduate program in Dental News-December issue 2014. Another publication related to her Master thesis was accepted in Quintessence International in 2017. She also worked in collaboration with British Academy of Implant and Restorative Dentistry. She obtained her degree of Doctor of Dental Surgery in 2010 and her internship in 2011 from Ajman University of Science and Technology. She is currently a licensed dentist registered in Health Authority of Abu Dhabi – United Arab Emirates.