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## Non-carious Cervical Abrasions: Interrelationship between Abfraction and Wear Facets in persistent dentition

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Non-carious cervical lesions (NCCLs) are defined as the loss of dental hard tissue at the cement- enamel junction. Erosion, abrasion, and attrition are the main factors that have been associated with this disorder. Objective: Recent studies have revealed that occlusal stress is the cause factor of cervical enamel cracks (abfraction) that has been considered as an additional etiology for NCCLs to facilitate the erosion and abrasion mechanisms in tooth wear. Study Design: The prevalence of NNCLs and wear facets was evaluated in a population with permanent dentition in absence of any clear etiological factors related to erosion and abrasion causes. A total 295 subjects are tested for this study and divided into four age groups (subjects aged 15 - 27 years, 28 - 42 years, 43 - 57 years and 58 - 75 years respectively). An overall of 6629 teeth are investigated to find NCCLs and wear facets. The occlusion is analyzed in each patient. Results: An overall of 801 teeth (12%) showed NCCLs and 623 of them (78%) highlights also wear facets. The higher number of teeth with NCCLs and with simultaneous presence of wear facets are found on teeth of patients group-3 (11% of all teeth examined for group and 81% respectively) and to group-4 (24.4% of all teeth examined for group and 86.5% respectively) However the remaining teeth without NCCLs (5828) resulted only 138 (2.4%) with wear facets.

**Conclusion:** The results of this study have shown that the occlusal forces are the primary cause of NCCLs on the teeth in presence of wear facets. Keywords Abfraction, Bruxism, Occlusal Stress, Noncarious Cervical Lesion, Wear Facet.

### Biography

Abdulah Sindy Aldraan completed his Bachelor degree at Alfarabi College in Riyadh. He was an organizer of more than one conference. Currently he is doing his internship at Al-Farabi College for Dentistry and Nursing, Riyadh, Saudi Arabia.

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