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New challenge in individual prophylaxis: Let's talk about the disruption of the bio-film

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The literature raises the question of the efficiency of brushing and its limits, the issue of quality cleaning the interdental space, in the interest of removing plaque often with success criteria not adapted to the situation of the patient. The oral health must find a balance between the acceptability, efficacy in terms of disruption of the bio-film and non-traumatic techniques. From there it will depend on patient motivation, of the dental team, the long-term preservation of optimal oral health. This lecture aims to present the latest results in the micro-biome of supra gingival plaque, to assess the needs, methods and techniques to control biofilm disruption of the interdental space and finally to analyze the impact of use of brushes calibrated on clinical parameters of populations' young adults.

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Are the new adhesive systems well enough in terms of shear bond strength for secure orthodontic bonding?

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This study evaluated the shear bond strength (SBS) of a traditional orthodontic bracket bonding agent and newly developed two different self-adhering materials. Sixty premolar teeth and sixty brackets were used for SBS test. Five groups were organized. TransbondXT (TXT) Maxcem Elite (ME) without etching; ME with etching; Vertise Flow (VF) without etching and VF with etching were used to attach the brackets and SBS test was applied. The outcomes (MPa) were as follows in five groups respectively; 9.86±3.20, 4.67±2.94, 7.82±2.56, 2.55±0.77 and 7.89±1.17. SBS values of the new agents were significantly lower than the traditional one ($p<0.05$). But no significant difference was found between TXT and new groups that were etched ($p>0.05$).The ARI scores "0" and "1" was noticed in group 2 and 4 which consist of non-etched ME and VF. The results revealed that new self-etching and self-adhesive bonding systems require additional phosphoric acid application to achieve traditional SBS values.

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