

MECTRON PROPHYLAXIS ORTHODONTIC CLEAN-UP - ENAMEL SAFE POST DEBONDING

→ in scientific collaboration with Prof. Gianna Maria Nardi

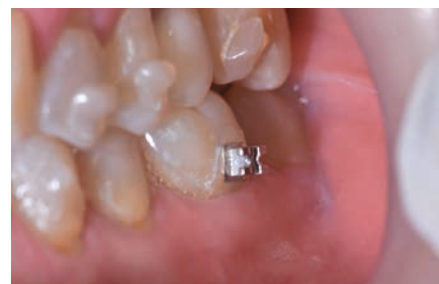


NEW INSERTS FOR ORTHODONTIC CLEAN-UP

During conventional procedures of post debonding adhesive removal through traditional rotary instruments (tungsten carbide and diamond burs), several problems in the clinical practice are observed:

- quantitative damages to the enamel surface
- enamel micro-cracking and fractures
- significant roughness of enamel surface, resulting in retention area of microbial dental plaque
- discolorations

The orthodontic clean-up, thanks to the use of ultrasounds with dedicated inserts, allows a minimally invasive removal of residual adhesive and/or composite post orthodontic therapy (standard or invisible).



SCIENTIFIC PUBLICATION - ENAMEL SAFE POST DEBONDING



This in-vitro study was carried out to test the efficacy and safety of new piezoelectric inserts for removing the remaining orthodontic adhesive.

Comparisons were made between the mentioned piezoelectric inserts and the gold standards available on the market (tungsten carbide bur, abrasive discs, rubber cups for polishing and finishing).

The new protocol ENAMEL SAFE POST DEBONDING (G.M.Nardi et al.) with piezoelectric technology was found safe and effective for orthodontic clean-up procedure.

Even for the treatment with transparent aligners, the possibility of using an ergonomic and fast instrument is of benefit to both patient and practitioner.

The results of this study show that the piezoelectric technology allows the preservation of enamel health with the benefits of a minimally invasive procedure.



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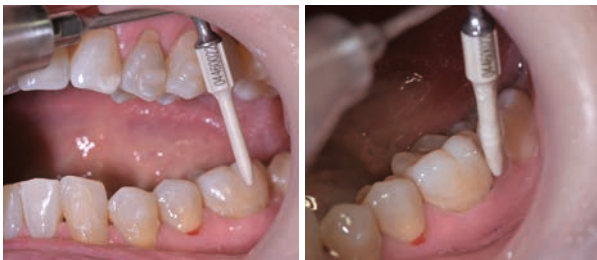
CLINICAL PROTOCOL ORTHODONTIC CLEAN-UP



- 1 In the final step of the orthodontic therapy, the orthodontist removes the bracket with the dedicated plier. In case of transparent aligners, we suggest to use metal pliers designed to remove bonded buttons.



- 2 After removing the bracket, following the action of the bur, the residual adhesive is removed (orthodontic clean-up) with the piezoelectric insert D05120 with diamond coating D30.



- 3 Polishing is carried out with insert D07102 with operating part in PEEK D06007. The estimated time is about 20 seconds per each dental surface.



- 4 End result.
The clean-up performed with Mectron inserts has proven to retain the effectiveness of the gold standard while being extremely safe for enamel.

Nardi GM, Mazur M, Grassi R, Rifuggiato S, Stiuso V, Janiszewska-Olszowska J, Ottolenghi L, Barbato E, Minetola P, Iuliano L. *Enamel Analysis by 3D Scanning after Three Orthodontic Clean-Up Procedures: An In-Vitro Test of a New Piezoelectric Tool*. Int J Environ Res Public Health. 2023 Jan 31;20(3):2516. doi: 10.3390/ijerph20032516. PMID: 36767901; PMCID: PMC9915299.

ORTHODONTIC CLEAN-UP - THE INSERTS IN DETAIL



INSERT D05120
ref. no 02990005-001

INDICATION:

The insert D05120 is suitable for the safe and effective removal of the residual adhesive post orthodontic therapy (fixed, removable/invisible). The diamond coating D30 makes it ideal for the first clean-up phase.



INSERT D07102 + TIP D06007
ref. no 02990007-001 ref. no 02900190

INDICATION:

The insert D07102 is suitable for the polishing post removal of residual adhesive. The tip D06007 made of PEEK is gentle on the enamel surface.

ORTHO CLEAN-UP SET

ref. no 02160037-001

EQUIPPED WITH

1 insert D05120, 1 insert D07102, 2 dynamometric wrenches K10, 5 tips D06007

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