## Root caries management with EQUIA Forte™ HT



### STEP-BY-STEP ROOT CARIES RESTORATION WITH EQUIA Forte HT







 Assess the restorability of the affected tooth.



 Remove carious tissue. In teeth with healthy pulp, selective caries removal technique can be used.\*



Clean the cavity.
 OPTIONAL STEP:
 Apply Cavity Conditioner (10 sec.) or Dentin
 Conditioner (20 sec.).
 Rinse and dry gently.



Apply EQUIA Forte HT directly into the cavity.



 Contour and model with a modeling instrument.
 Working time is 1 min 30 sec from start of the mix.



 After complete setting do the final shaping and contouring with a fine grit diamond bur.
 Setting time is 2 min 30 sec from start of mix.



 Place EQUIA Forte Coat onto the restoration with a micro brush.
 Do not air-blow.



 Light cure for 20 sec. with a light curing device (> 500mW/cm<sup>2</sup>: Halogen/ LED)



9. Final result.

# Back to your roots! MI treatments for root caries

### \* Selective Caries Removal Technique

Selective caries removal is a restorative technique in which **infected dentin** is removed and **affected dentin** is preserved. This technique helps prevent pulp exposure and also often eliminates the need of local anesthesia. Slow rotary or hand instruments can be used. The cavity is then sealed with a restorative material. There is strong evidence\* of good long-term survival of restorations placed with selective caries removal approach.



#### Infected dentin

- Closer to the surface of the cavity
- Soft, cottage cheese-like consistency
- Lacks sensation
- Light-brown in color
- Wet looking

#### Affected dentin

- Deeper layers of the cavity
- Leather-like consistency
- Sensitive
- Dark-brown in color
- Tacky feel

Restoration after selective caries removal with EQUIA Forte HT



- Chemical bond to demineralized tooth structure
- · Fast bulk fill application
- · Moisture tolerance
- Ion exchange with root surface prevents progression and reoccurrence of caries



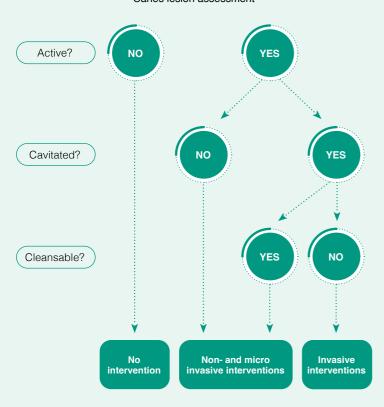
- Banerjee A, Frencken JE, Schwendicke F, Innes NPT. Contemporary operative caries management: consensus recommendations on minimally invasive caries removal. Br Dent J. 2017 Aug 11;223(3):215-222. doi: 10.1038/sj.bdj.2017.672. PMID: 28798430.
- da Mata C, McKenna G, Anweigi L, Hayes M, Cronin M, Woods N, O'Mahony D, Allen PF. An RCT of atraumatic restorative treatment for older adults: 5 year results. J Dent. 2019;83:95-99.
- Lim, Z., Duncan, H., Moorthy, A. et al. Minimally invasive selective caries removal: a clinical guide. Br Dent J 234, 233-240 (2023).

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### Caries management decision tree:

#### Caries lesion assessment



Schwendicke, Falk & Splieth, Christian & Breschi, Lorenzo & Banerjee, Avijit & Fontana, Margherita & Paris, Sebastian & Burrow, Michael & Crombie, Felicity & Foster Page, Lyndie & Gaton, Patricia & Giacaman, Rodrigo & Gugnani, Neeraj & Hickel, Reinhard & Jordan, Andreas & Leal, Soraya & Lo, Edward & Tassery, Herve & Thomson, William & Manton, David. (2019). When to intervene in the caries process? An expert Delphi consensus statement. Clinical Oral Investigations. 23. 10.1007/s00784-019-03058-w.

# Back to your roots! MI treatments for root caries

When **no intervention** is indicated there are still measures that can be taken to prevent incidence and progression of caries:



- Assess patient's dietary habits and recommend foods and drinks low in sugar
- Help the patient maintain excellent oral hygiene by in-office appointments and education of the patient and care givers
- Tip the balance in your favor boost remineralization with MI Varnish™ in office and MI Paste Plus™ at home



Incipient caries lesions can be managed in a **non-invasive** or **micro-invasive** way.

This approach will contribute to preservation of tooth structure.

- Apply MI Varnish to incipient carious lesions
- Protect the exposed root surfaces with the flowable glass ionomer GC Fuji TRIAGE™



Cavitated and active carious lesions may have to be managed more **invasively** but minimally invasive principles can still be applied.

- Restore with the Light-Cured RMGIC Fuji II LC in patients where the easy and speed of placement is paramount
- Restore deep root carious lesions with moisture tolerant and strong Glass Hybrid material: EQUIA Forte HT
- When isolation is possible and aesthetic demands are high, restore effortlessly with an injectable composite: G-aenial™ Universal Injectable





