



**98%**  
rating at  
recall

3M

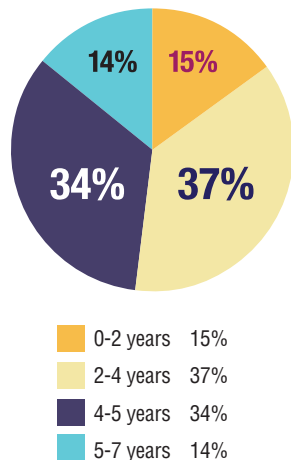
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**RelyX Luting Plus Automix** is a radiopaque, fluoride-releasing, resin-modified glass ionomer luting cement. It is delivered in a dual-barrel syringe with mixing tips for easy mixing and dispensing and is available in a white shade. It is self-curing with an option for tack curing for easy removal of excess cement. **RelyX Luting Plus Automix** is also available in a Clicker.

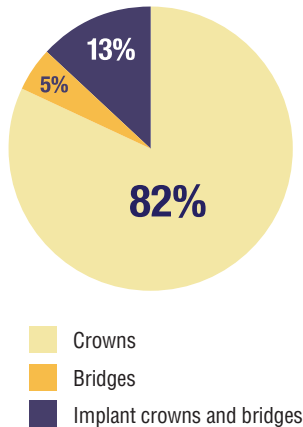
### Clinical Evaluation Protocol:

A total of 116 restorations were placed over a six and a half year period between January 2011 and June 2017 using **RelyX Luting Plus Automix**, of which 100 have been recalled. Of the recalled restorations, 25 were in place for up to 3 years, 61 for between 3 and 5 years, and 14 for between 5 and 7 years (Figure 1).

**Figure 1.** Age of restorations cemented with **RelyX Luting Plus Automix** at recall.



**Figure 2.** Classification of restorations cemented with **RelyX Luting Plus Automix**.



The recalled restorations consisted of 91 crowns including 9 implant crowns and 9 three-unit bridges including 4 implant bridges (Figure 2). Eighty-two percent of the restorations were in the molar region, 17% were in the premolar region and 1% in the anterior region (Figure 3). The vast majority were zirconia and porcelain-fused-to-zirconia (PFZ) restorations. The remaining restorations were gold, porcelain-fused-to-metal and lithium disilicate.

### Results at 6 years:

#### Results at Recall

One hundred restorations (85% of the total number placed) had been recalled and were evaluated in the following areas: resistance to marginal discoloration, esthetics, and retention. Restorations were evaluated on a 1-5 rating scale: 1= poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent.

#### Resistance to Marginal Discoloration

Resistance to marginal staining was rated as excellent - 97 of 100 restorations received a rating of 5 (Figure 4). Of the remaining three restorations, one had marginal caries and two had marginal discoloration.

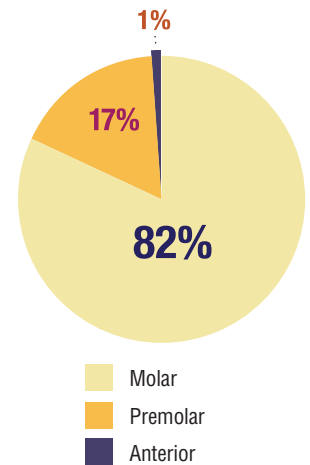
#### Esthetics

Esthetics was rated as excellent, with 99 restorations receiving a 5 and one restoration receiving a 4 (the restorative material was slightly dull) (Figure 4).

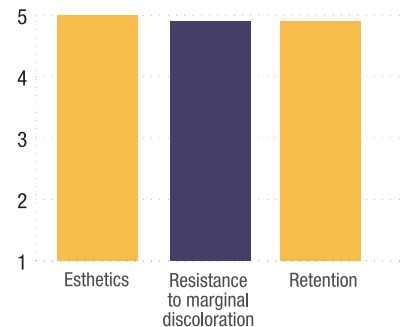
#### Retention

Retention was rated as excellent (Figure 4). During the recall period, 3 of 100 restorations debonded. However, one debond occurred while an elevator was being applied to an adjacent tooth. Two debonds occurred spontaneously. All three restorations were recemented.

**Figure 3.** Distribution of restorations cemented with **RelyX Luting Plus Automix** by site.



**Fig. 4:** Clinical results of restorations cemented with **RelyX Luting Plus Automix** at recall.



### Consultants' Comments

- "Easy clean-up during the gel stage."
- "No post-operative sensitivity."

**"BEST ALL-AROUND POSTERIOR CROWN CEMENT."**

### Summary

Over a six and one half year period, clinical performance of restorations cemented with **RelyX Luting Plus Automix** was rated as excellent. **RelyX Luting Plus Automix** received a clinical performance rating of 98%.