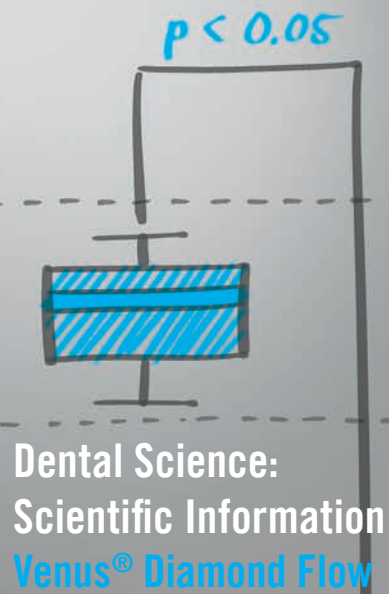


$p < 0.05$



Dental Science:
Scientific Information
Venus® Diamond Flow

Venus®

Class V cavities – University of Brescia, Italy
4 year clinical evaluation with two different flowable composites.

The clinical trial exhibits excellent behaviour of Venus Diamond Flow under clinical conditions after 4 years.

Giving a hand to oral health.

Class V cavities – University of Brescia, Italy

4 year clinical evaluation with two different flowable composites.

Venus®

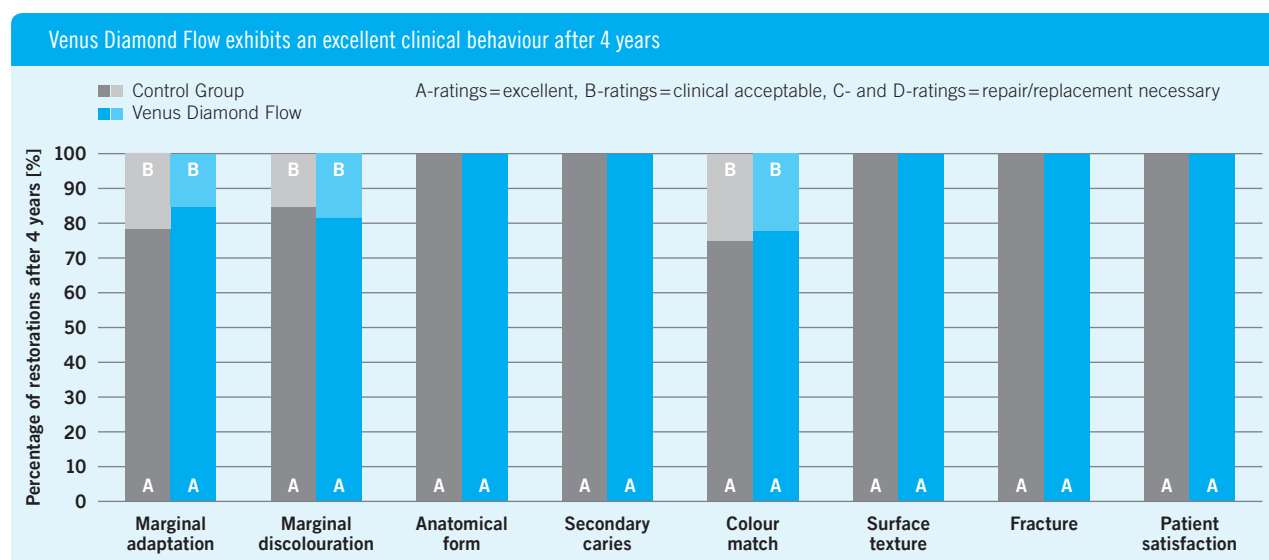
Objective

The aim of this clinical trial was to assess the clinical and aesthetic performance of Venus Diamond Flow and iBOND Total Etch in class V restorations in a controlled randomised split-mouth study design.

Materials and Methods

60 class V restorations were placed by an experienced clinical operator. All restorations were installed with modified micro-layering technique (flow application). The used composite and adhesive materials were: Venus Diamond Flow & iBOND Total Etch (Heraeus Kulzer) respectively Tetric EvoFlow & Excite (Ivoclar Vivadent) as control group. Restorations were polished with the 2-step polishing system Venus Supra (Heraeus Kulzer). Restorations were assessed by two independent clinicians at baseline, 6 months, 1 year, 2 years, 3 years and 4 years using the following USPHS evaluation criteria: marginal adaptation, marginal discolouration, anatomical form, secondary caries, colour matching ability, surface texture, fracture of restoration, retention, tooth vitality, pulpitis, post-operative sensitivity to temperature and occlusion and the patient satisfaction.

Results



Recall rate after four years was 70%. Every restoration kept its anatomic form. Three restorations were lost in control with Venus Diamond Flow compared to six lost restorations in the control group. All study teeth remained caries-free and all fillings were intact. All study teeth were vital and sound. No tooth exhibited post-operative discomfort. The patient satisfaction was in each group 100%.

Conclusion

Venus Diamond Flow in combination with iBOND Total Etch demonstrated a good clinical performance in class V restorations after 4 years.

Source

Cerutti A: 4 years report 2014. Unpublished data. Data on file.

The study was abbreviated and summarised and all diagrams and titles have been established by Heraeus Kulzer.