

Publications

Study

Users report

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## Clinical evaluation of a new microhybrid composite (Venus®)

Venus®

Scientific Information

**Objective**

The purpose of this clinical trial was to evaluate the *in vivo* performance of a new generation of composite resin (micro-hybrid technology), Venus®, for anterior restorations over a one-year period.

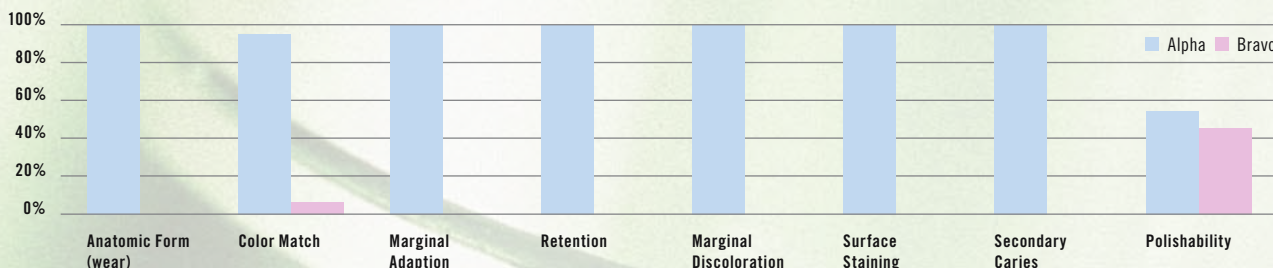
**Materials and Methods**

A total of 53 restorations (classes III, IV, V, diastema restorations, veneers) using Venus® were placed in the anterior teeth of 28 subjects by the Center of Dental Research at the Loma Linda University School of Dentistry. Two dentists placed the restorations over a 60-day period. Gluma® Comfort Bond + Desensitizer was used as the dental adhesive.

At one-year, 46 restorations were evaluated. They were evaluated by one evaluator (dentist) for anatomic form, color match, marginal adaptation, retention, marginal discoloration, surface staining, secondary caries and polishability by using modified USPHS evaluation criteria.

**Results**

	<b>Alpha</b>	<b>Bravo</b>	<b>Charlie</b>	<b>Delta</b>	<b>Eta</b>
<b>Anatomic Form (wear)</b>	100%	0%	0%	0%	0%
<b>Color Match</b>	93%	7%	0%	0%	0%
<b>Marginal Adaptation</b>	100%	0%	0%	0%	0%
<b>Retention</b>	100%	0%	0%	0%	0%
<b>Marginal Discoloration</b>	100%	0%	0%	0%	0%
<b>Surface Staining</b>	100%	0%	0%	0%	0%
<b>Secondary Caries</b>	100%	0%	0%	0%	0%
<b>Polishability</b>	54%	46%	0%	0%	0%



**Conclusions**

In the categories anatomic form, marginal adaptation, retention, marginal discoloration, surface staining and secondary caries all restorations were ranked Alpha.

None of the subjects exhibited post-operative sensitivity or exaggerated gingival response.

Based on the one-year findings of this study, the Venus® micro-hybrid composite is an excellent choice for anterior restorations.

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