Giomer restorations: 13 years and counting

By Shofu Dental Staff

Shofu is enthusiastic to announce the publication of the long-awaited 13-year recall study in the Journal of the American Dental Association, “A clinical evaluation of a giomer restorative system containing pre-reacted glass ionomer filler: Results from a 13-year recall examination,” by Valeria Gordan et al.

The implications from the overwhelmingly positive results demonstrate the long-term success of restorations with giomer material in posterior teeth.

Giomer is Shofu’s proprietary technology, a surface pre-reacted glass filler used in a resin matrix, developed to release fluoride, along with five other ions, and re-charge with use of other fluoridated products. Giomer materials have been shown to have superior physical properties, an anti-plaque effect and an acid neutralization capability to help prevent secondary caries.

Sixty-one restorations were originally placed in 31 patients using Shofu’s Beautifil resin-based giomer restorative material with a self-etching primer FL-Bond. The 13-year recall, results determined the following:

• 41 restorations were examined from the original 61
• 61 percent of the 41 restorations were still intact
• Only 3 percent with secondary caries

Clinicians also examined these restorations according to modified U.S. Public Health Service criteria: color match, marginal adaptation, surface roughness, secondary caries, luster and more.

• 48 percent of the intact restorations showed no changes

No changes were observed in 48 percent of the remaining intact restorations. Clinicians concluded that most restorations maintained acceptable clinical qualities, and the overall positive results may be related to the beneficial properties of the giomer filler.

Contact Shofu at customerservice@shofu.com to receive your copy of this study today.

The Shofu giomer product line

• BEAUTIFIL Flow Plus: A flowable base, liner and final restorative approved for all classes (I-V). Physical properties rival leading packable composites. With handling that is stackable and sculptable, the material just stays put. The self-leveling consistency doesn’t require packing, reduces voids and simplifies polishing. Fluoride release and recharge offers sustained benefits for high caries index patients. Two viscosities are available: F00 for precision stacking and FO3 for traditional flowability.

• BEAUTIFIL II: A radiopaque, nanohybrid composite with superior physical properties for durable anterior or posterior restorations. Optimized for easy handling with a non-sticky, non-slump consistency, this 83 percent filled giomer product actually releases and recharges fluoride. Sustained cariostatic benefits were documented by an independent 13-year University of Florida study.

Highly esthetic restorations are made possible with natural, tooth-like light diffusion and chameleon properties that mimic the color of surrounding tooth structure.

• BeautiBond: A self-adhesive, dual-cure resin cement incorporating giomer technology. High bond values across all substrates provide peace of mind for all of your cementation needs with simplified placement procedures. With a unique formulation optimized for handling, a quick two-second flash-cure provides easy cleanup because any excess material holds firm at the margin without dripping out. The low film thickness of just fewer than 12 microns allows precious space for tight-fitting crowns.

• BeautiSealant: A tooth-colored, fluoride-recharging, pit-and-fissure sealant that reduces treatment time by completely eliminating the need for phosphoric acid etch-and-rinse steps. Using an advanced, self-etching primer, BeautiSealant is gentle on teeth yet maintains superior shear and tensile bond strength compared to leading phosphoric acid-etched systems.

Shofu convention specials

• Buy two BeautiBond tips and get one new Super-Snap X-Treme Mini Kit and two T&F Hybrid Points at no charge.
• Buy two BeautiFlow Plus tips and get one at no charge.
• Buy two Beauti-Bulk syringes and get one at no charge.