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GNYDM Assignment

Dental Sealant

The three different dental sealants brands that I compared were Virtuoso from DenMat, Clinpro from 3M ESPE, and Natural Elegance from Henry Schein. They are popularly used in private offices and clinics for sealing pits and fissures on primary and permanent teeth as a protection against caries.

The same characteristics of these sealants are that they need to be light cured, have low viscosity, and they are applied on the tooth with a syringe, so they are easy to apply. However, Clinpro sealant also comes in a bottle and it can be applied with a brush. They all come with etch, syringe or bottle, and tips included in a box.

The features that are different from each other are sealant composition, color and fluoride release benefit. Virtuoso sealant is composed of Aromatic and Aliphatic Methacrylate resins. The product manual states that it combines proven fillers used in flowable composites with a bonding enhancer for better retention in pits and fissures. Also, it says this product has same wear resistance as amalgam. It is available in two shades of clear and opaque, and has fluoride release feature for additional benefit of caries prevention.

Clinpro sealant is composed of BIS-GMA and TEGDMA, and it also releases fluoride, like Virtuoso sealant. Unlike other sealants, it has a color changing feature, which is pink upon application and changes to white color when it is cured. This unique feature allows a clinician to easily differentiate whether sealant is set or not.

Natural Elegance sealant is composed of filled resin, it only available in opaque shade, and does not release fluoride.

As a dental hygienist, I would use Virtuoso sealant, because of its fluoride release benefit and it seems to last longer than other brand products since it has same wear resistance as amalgam.