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**Dental Cements**

Dental cements are bases and liners that are used widely in dentistry for temporary restorations, luting agents, insulating bases, root canal fillings and pulp capping. During the Greater of New York meeting, my classmate and I visited three different brands of cements to obtain information and be able to determine the differences, advantages and disadvantages. The first brand we visited is called Ivoclar vivadent, the second is Voco and the third is 3M.

Ivoclar vivadent is a well-known worldwide cement company. They vary in form. Three different types of cement we talked about were Variolink Esthetic, Multilink Automix and SpeedCM Plus. Variolink Esthetic Permanent is a light- and dual-curing luting composite for the esthetic and permanent cementation of ceramic and composite resin restorations. It works well for inlays, onlays, partial crowns, crowns and bridges. is a light- and dual-curing luting composite for the esthetic and permanent cementation of ceramic and composite resin restorations. Some advantages are excellent shade due to 100% amine-free, easy for excess removal, flexible, good consistency for flowability and stability. A disadvantage is that it needs a bonding. In the other hand we investigated about Multilink Automix, which is an adhesive luting system for the cementation of indirect restorations. It is made of silicate and oxide ceramics, metal and composite resins with similar advantages as the Variolink Esthetic. It has a high bond strength on all surfaces, self-curing with light-curing option and self-etching primer. The last one is SpeedCEM Plus is a self-adhesive, self-curing resin cement with optional light-curing. It works excellent for restorations made of zirconium oxide and metal-ceramics and for the cementation of restorations on implants.

The second brand is Voco, this company has a wide selection that can be used on veneers, inlays, onlays, crowns and bridges. They have different types of cements. Some are light-cured, Glass Ionomer materials and temporary cements and permanent self-adhesive cement. Some advantages of these cements are fast setting time, string and wear resistant, long term color stability and quick and easy application. Provicol is a type of cement which is part of the Voco brand. The composition for this is Calcium hydroxide, which helps with the reduction of post-operative sensitivities and antimicrobial effect. It comes in syringes, cartridges or tubes. The syringe option has some benefits as not wasting material, no hand mixing and no bubbles. The mixture is homogenous.

The last brand is known as 3M. It is proven to be the world's most clinically proven self-adhesive resin cement. 3M Relyx unicem self-adhesive resin cement is a dual cure, has a long-term stability, strong, saves time by eliminating etching. It works well for oxide ceramic restorations, general cementation and bridges. Relyx Luting Plus Resin Modified Glass Ionomer Cement is a 5 second light cure. It contains Fluoride for patients with caries risk. This cement is good for pediatric crowns, orthodontic bands and implants. It works well on zirconia restorations. Some advantages are high bonding strength, fast and easy procedures and saves time by eliminating etching.