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# Restorative Materials

## All Ceramic Restorations

| Material                               | Cementation  | Advantages  | Indications   | Preparation Requirements  |
|--|--|---|---|---|
| <b>e.max Press</b>                     | <ul style="list-style-type: none"> <li>Adhesive Cementation (veneers &amp; inlay/onlays must be adhesively cemented)</li> <li>Conventional Cementation</li> </ul>  | <ul style="list-style-type: none"> <li>Aesthetics/Shade Control</li> <li>Strength 400 Mpa</li> <li>Lithium Disilicate</li> <li>High Opacity ingot to cover dark dentin and partially cover metal</li> <li>Marginal Integrity</li> </ul> | <ul style="list-style-type: none"> <li>Full Crowns – anterior or posterior</li> <li>Veneers</li> <li>Inlays</li> <li>Onlays</li> <li>3 unit anterior or posterior bridges (bridges can include molar abutment, only premolar pontics in posterior)</li> </ul> | <ul style="list-style-type: none"> <li>Veneers: .5* – 1 mm facial, 1 – 1.5 incisal</li> <li>Full crowns: 1 – 1.5 mm facial, lingual and incisal, occlusal 1.5mm</li> <li>Inlay/Onlay: 1 – 1.5 mm wide gingival floor, 1.5 – 2 mm isthmus width, rounded internal line angles, butt joint margin</li> <li>pontic span 9 mm in posterior and 11 mm in anterior</li> </ul> |
| <b>Empress</b>                         | <ul style="list-style-type: none"> <li>Adhesive Cementation</li> <li>Using a resin cement such as Variolink II, Variolink Veneer or Multilink by Ivoclar or Rely X Veneer Cement by 3M</li> </ul>                  | <ul style="list-style-type: none"> <li>Aesthetics/Shade Control</li> <li>Marginal Integrity</li> </ul>  | <ul style="list-style-type: none"> <li>Veneers</li> <li>Full Crowns</li> <li>Inlays</li> <li>Onlays</li> </ul>  | <ul style="list-style-type: none"> <li>Veneers: .5* – 1 mm facial, 1 – 1.5 incisal</li> <li>Full crowns: 1 – 1.5 mm facial, lingual and incisal</li> <li>Inlay/Onlay: 1 – 1.5 mm wide gingival floor, 1.5 – 2 mm isthmus width, rounded internal line angles, butt joint margin</li> </ul>  |
| <b>e.max Ceram stacked to zirconia</b> | <ul style="list-style-type: none"> <li>Conventional Cementation</li> <li>Using glass-ionomer cement, resin cement such as RelyX Unicem Cement by 3M or self curing cement such as Multi Link by Ivoclar</li> </ul> | <ul style="list-style-type: none"> <li>Zirconium core can cover dark dentin with adequate reduction</li> <li>Strength</li> </ul>  | <ul style="list-style-type: none"> <li>Full Crowns</li> <li>Bridges (38 mm span)</li> </ul>   | <ul style="list-style-type: none"> <li>All restorations: 1.5 – 2 mm facial, lingual, incisal and occlusal, 1 mm shoulder</li> </ul>   |
| <b>Zirconia (full contour)**</b>       | <ul style="list-style-type: none"> <li>Conventional Cementation</li> </ul>   | <ul style="list-style-type: none"> <li>Strength of 950 MPa</li> </ul>   | <ul style="list-style-type: none"> <li>Full Crowns</li> <li>Bridges</li> </ul>  | <ul style="list-style-type: none"> <li>1 mm reduction facial, lingual, occlusal and interproximal</li> </ul>  |

\*provided not covering dark dentin \*\*opacuous material

## Metal Based Restorations

|               |  |  |  |  |
|---------------|--|--|--|--|
| <b>Captak</b> | <ul style="list-style-type: none"> <li>Conventional Cementation</li> </ul> | <ul style="list-style-type: none"> <li>Strength</li> <li>Value (fixed unit pricing)</li> </ul> | <ul style="list-style-type: none"> <li>Full Crowns</li> </ul>                  | <ul style="list-style-type: none"> <li>1 mm reduction facial, lingual, occlusal and interproximal, slight shoulder required for porcelain butt margin</li> </ul> |
| <b>PFM</b>    | <ul style="list-style-type: none"> <li>Conventional Cementation</li> </ul> | <ul style="list-style-type: none"> <li>Strength</li> </ul>                                     | <ul style="list-style-type: none"> <li>Full Crowns</li> <li>Bridges</li> </ul> | <ul style="list-style-type: none"> <li>1 mm reduction facial, lingual, occlusal and interproximal, slight shoulder required for porcelain butt margin</li> </ul> |