



# Which Ceramic Should You Choose?

## FELDSPATHIC VENEERS

### NOTES:

- Qualities of a layering ceramic
- Weak ceramic but gains its strength by being bonded to enamel
- Highest level of Aesthetics

### LEARNING POINTS:

- Needs more enamel for support (key for long term success)
- Provides a very natural result
- Becoming a lost art amongst Ceramists

## VENEERS - WHICH CERAMIC?

### NOTES:

- Feldspathic > 50% Enamel Substrate
- Glass ceramic (Empress, eMax) < 50% Enamel
- Minimal Enamel - go conventional Dentistry eg Zirconia

## COMPOSITE CORES FOR ONLAYS?

- To dampen the stress for the tooth there is no need to replace missing dentine with composite first.
- 0.5mm Composite via Immediate Dentine Sealing (IDS) is enough
- Rest of the space/thickness for the ceramic eg eMax

## ZIRCONIA CLASSIFICATION - YTTRIA % BY WEIGHT

### 3Y

3% Yttria Oxide  
97% Zirconia

- 100% Tetragonal Shaped Zirconia
- 0% Cubic Zirconia
- Very opaque, but very strong
- Extensive Bridgework

### 4Y

4% Yttria Oxide  
96% Zirconia

- 70% Tetragonal Shaped Zirconia
- 30% Cubic Zirconia
- Almost as translucent as 5Y
- For any Crowns or Bridgework

### 5Y

5% Yttria Oxide  
95% Zirconia

- 50% Tetragonal Shaped Zirconia
- 50% Cubic Zirconia
- Highest Translucency
- For single Crowns anywhere in the mouth

## CERAMICS ON WEAR CASES

- Restore vertical dimension
- Prep the mock up at least 1 mm thick
- Ceramic of choice: Lithium Disilicate if bonding, Zirconia if luting

## IMPORTANT RESOURCES

### GALIP GUREL 2013

- Periphery in enamel being important and veneers to 50% Dentine substrate is as bad as 100% Dentine

### MATTHIAS KERN 2015

- Durability of Composite resins to Zirconia ceramic after sandblasting