

Typodont/Mannequin Tooth Characteristics

A Typodont/Mannequin tooth to be used for a Non-Patient based board examination for Class II and III preparations must at a minimum have all the following characteristics/attributes in order to be accepted as qualifying for acceptance by the board to be used in such an examination for licensure:

- 1) Discrete Caries contained within the enamel and dentin
- 2) Obvious Dentin-Enamel interface (a definite DEJ) that is detectable visually
- 3) Diagnostic Caries visually and tactilely with dental instruments (explorer, dental burrs, hand instruments, etc)
- 4) Variability in the Caries:
 - a) placement within the tooth surfaces
 - b) amount of caries present - accurate in amount tooth to tooth when reproduced for utilization in an examination setting
 - c) models the biologic variability of caries, e.g., infected, decalcified, and sclerotic dentin so the clinical decisions can be demonstrated.
- 5) Caries models natural pathways of infection within the tooth in both depth & the way it spreads along the DEJ
- 6) Life like enamel - cuts like human tooth enamel (is not softer), does not chip at the margins when cut with standard dental burrs or diamonds
- 7) The material is restorable just as if it were human tooth structure
 - a) Composite can be bonded to the tooth's material with the same materials as are used in normal clinical practice
 - b) Composite/Amalgam can be finished to the margins with standard clinical instruments and methods to achieve proper results
- 8) Provides the following clinically:
 - a) Diagnostic challenges to discover and properly remove caries
 - b) Amount of caries placed in the tooth necessitates preparation modifications from an "ideal" preparation design
- 9) Tooth must have a pulp that accurately reflects the pulp size and shape as the same tooth would in a human tooth of the same description (tooth #7 etc)
- 10) Tooth identifies the same critical types of deficiencies identified in a patient based examination situation as shown/demonstrated by data analysis comparisons between patient based and non-patient based examinations to verify the fidelity of the typodont/mannequin tooth as compared to a human tooth used in the same circumstances