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**Title:** Conservative treatment of hypoplastic molars in children and adolescents

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**Abstract:** Hypoplasia results in less quantity and/or quality of tooth structure. It can appear white, yellow or brownish with a rough or pitted surface. These teeth must often be treated soon after eruption due to either the severity of the defect or the sensitivity.

Hypoplasia is the result of environmental and genetic factors. Poor nutrition, toxic chemicals, some hereditary disorders, health problems in infancy, respiratory diseases and Amoxicillin has been reported to be associated.

Treatment options depending on hypoplasia severity and symptoms are as following:

1. For sensitive teeth with minimal wear, SuperSeal or another desensitizing agent such as potassium nitrate is suitable. Daily fluoride rinse is also helpful.

2. For minimally hypoplastic molars pit and fissure sealant placement is indicated.

3. When the tooth is mild to moderately affected, conservative approach is composite restorations. The affected enamel and dentin is removed and teeth restored with filled composite. For additional support and retention undermined enamel surfaces are preserved.

4. For sever hypoplastic molars stainless crowns are treatment of choice. If a severely affected tooth must be treated shortly after eruption a composite restoration may be placed until tooth is erupted sufficiently. If the composite is compromised because of isolation and little enamel structure, an orthodontic band can be cemented and composite, glassionomer or IRM placed until it is erupted enough. SSCs are intended for temporary use only and should replace with cast crown in late teen or adulthood.

5. In cases where the molar is unrestorable extraction is a reasonable alternative.

**Hypoplastic molar, conservative restoration, stainless crowns**

**Presentation:** Poster