



# Management of Hypomineralization with Direct Adhesive Composite Restorations



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## Introduction

Children with hypomineralization may have hypersensitivity, post-eruptive enamel breakdown (PEB), atypical restoration, and difficulty cleansing. The treatment of dental hypomineralization still poses a challenge in clinical practice.

## Objective

The objective of the present clinical case was to evaluate direct resin composite restorations as dental materials for esthetic restorations in hypomineralized teeth.

## Methods

10-year-old girl complaining of hypersensitivity, difficulty cleansing, and extensive brown opacities in the partially erupted permanent premolar and second molars. She was diagnosed with **amelogenesis imperfecta (hypomaturation pattern)**. Oral hygiene instruction were followed by applying sealants to protect these affected teeth from caries and PEB until the complete eruption of the teeth. During the eruption period of 12 months, affected teeth continuously exhibited clinical features of PEB. Therefore, self-etch adhesive and bulk-fill resin composite were chosen for this case, and the follow-up period to evaluate the restoration was done at the six-month interval.



*Before Treatment*

*During the eruption period*

*6 months follow-up*



*Before*



*After*

## Results

The restorations were evaluated at six months follow-up after restorations. The patient reported good function and decreased hypersensitivity. In addition, she was satisfied, and her quality of life improved.

## Conclusion

Choosing the best treatment options during mixed dentition can be challenging. This case presents a conservative approach in which the direct resin composite was used to restore the premolar and molar teeth affected by hypomineralization.

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