

## PP02: MINI-SCREW IMPLANTS AS A TEMPORARY RESTORATION FOR CONGENITALLY MISSING LATERAL INCISORS: A VIABLE SOLUTION? – CASE PRESENTATION

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**OBJECTIVE:** Lateral incisors are among the most commonly missing teeth and their loss contributes to a variety of aesthetic, functional and social problems, especially in adolescents. The objective of this case report is to showcase the use of a Mini-Screw Implant (MSI) as an alternative solution in temporarily ensuring and maintaining the lateral space, after the alignment of dental arches.

### CASE REPORT:

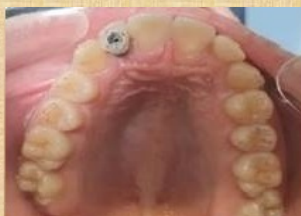
- **Case:** 12-year old girl
- **Background:** The patient exhibits agenesis of #12 as well as microdontia of #22 in a Class III background
- **Treatment:** Alignment and opening of the space of the upper right lateral were achieved using braces. Digital impressions were taken using an intraoral scanner, a surgical guide was 3D-printed and a Mini Screw Implant was placed. Finally, the restoration was complete with a composite build-up.



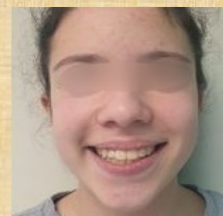
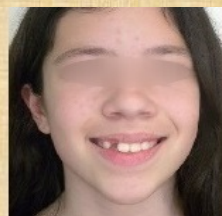
Figure 1. Frontal view before treatment.



Figure 2. Panoramic view after alignment of dental arches.



Figures 4,5. 3D-printed surgical guide and placement of the MSI/composite.



Figures 6,7. The patient (frontal view) before and after.



Figures 8,9. Frontal view after alignment of dental arches, before and after the placement of the Mini-Screw Implant.

**RESULTS:** After orthodontic treatment, the MSI combined with the composite build-up was used as a temporary restoration. It remains functional up to date, until the patient reaches the appropriate age for a permanent solution.

**CONCLUSIONS:** The use of MSIs appears to be a promising choice in the temporary restoration of missing lateral incisors. This method offers aesthetics, functionality and psychological advantages, in addition to significant benefits such as the retention of the volume of the alveolar ridge, the preservation of lateral space for a dental implant as well as ease of placement and removal, due to the absence of osseointegration.