

3D-Printed Versus Laboratory-Fabricated Hyrax Expanders

NCT05743127

Status	RECRUITING
Phase	Not Applicable
Sponsor	Ildeu Andrade Jr.
Enrollment	42 participants

Plain Language Summary

This study is comparing 3D-printed dental palate expanders to traditionally made (laboratory-fabricated) ones in children who need orthodontic treatment to widen a narrow upper jaw. The goal is to see if 3D-printed expanders work just as well and feel just as comfortable.

****You may be eligible if...****

- You are between 8 and 13 years old
- You have a narrow upper jaw with or without a crossbite
- You are an orthodontic patient at the Medical University of South Carolina or University of Pittsburgh School of Dental Medicine
- Your parent or guardian consents to participation (and you agree too if aged 12–13)
- You have access to a device with internet access

****You may NOT be eligible if...****

- You have previously had or are currently undergoing orthodontic treatment
- Your parent strongly prefers one specific type of expander
- You have jaw joint (TMJ) problems
- You are missing teeth from birth or from injury to your front teeth
- You have a craniofacial syndrome or cleft lip/palate

Talk to your doctor to see if this trial is right for you.

Key Eligibility Criteria

Inclusion (6)

- Maxillary anterior and/or posterior transverse deficiency with or without crossbite
 - Age of 8-13 years
 - Children whose parents/guardians are willing to consent to the child participating in the study
 - Children ages 12-13 who are willing to assent to participating in the study
 - Children who are orthodontic patients at the Medical University of South Carolina Department of Orthodontics or University of Pittsburgh School of Dental Medicine
- ... and 1 more (see full listing online)

Exclusion (6)

- Patients with previous or ongoing orthodontic treatment
- Patients whose parents have a strong preference as to which expander is used
- Patients with a history of temporomandibular disorders
- Presence of congenitally missing teeth
- Traumatic loss of maxillary incisors

... and 1 more (see full listing online)
<https://clinicaltrials.gov/study/NCT05743127>

DISCLAIMER: This document is for informational purposes only and does not constitute medical advice. Always consult your healthcare provider before enrolling in any clinical trial. Information may not be up to date — verify details at [ClinicalTrials.gov](https://clinicaltrials.gov). Generated by [ClinicalTrialsFinder.org](https://clinicaltrialsfinder.org).

Locations (2 total)

University of Pittsburgh - School of Dental Medicine, Pittsburgh, Pennsylvania, United States
Medical University of South Carolina, Charleston, South Carolina, United States