

Images in clinical medicine



Ankyloglossia unveiled: a clinical image highlighting the impact of tongue tie on oral mobility

Meenakshi Dagar,  Sheetal Asutkar

Corresponding author: Meenakshi Dagar, Department of Shalyatantra, Mahatma Gandhi Ayurved College Hospital and Research Centre, Salod (H), Datta Meghe Institute of Higher Education and Research, Wardha, Maharashtra, India. drmeenakshi1999@gmail.com

Received: 30 Dec 2024 - **Accepted:** 29 May 2025 - **Published:** 03 Jul 2025

Keywords: Ankyloglossia, frenotomy, speech therapy

Funding: This work received no specific grant from any funding agency in the public, commercial, or not-for-profit sectors.

Copyright: Meenakshi Dagar et al. Pan African Medical Journal (ISSN: 1937-8688). This is an Open Access article distributed under the terms of the Creative Commons Attribution International 4.0 License (<https://creativecommons.org/licenses/by/4.0/>), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Cite this article: Meenakshi Dagar et al. Ankyloglossia unveiled: a clinical image highlighting the impact of tongue tie on oral mobility. Pan African Medical Journal. 2025;51(63). 10.11604/pamj.2025.51.63.46390

Available online at: <https://www.panafrican-med-journal.com//content/article/51/63/full>

Ankyloglossia unveiled: a clinical image highlighting the impact of tongue tie on oral mobility

Meenakshi Dagar^{1,&}, Sheetal Asutkar¹

¹Department of Shalyatantra, Mahatma Gandhi Ayurved College Hospital and Research Centre, Salod (H), Datta Meghe Institute of Higher Education and Research, Wardha, Maharashtra, India

[&]Corresponding author

Meenakshi Dagar, Department of Shalyatantra, Mahatma Gandhi Ayurved College Hospital and Research Centre, Salod (H), Datta Meghe Institute of Higher Education and Research, Wardha, Maharashtra, India

Image in medicine

A 12-year-old male patient presented with complaints of being unable to speak properly since birth. Clinical examination showed the frenulum attaches at the tip of the tongue, limiting its ability to extend outward, restricted movement of the tongue, and the patient was not able to extend his tongue beyond his lower lip. His medical and family history was clear; his parents told him he also had difficulty breastfeeding during his

breastfeeding days. On systemic examination, there was no sign of hypotonia, cerebral palsy, which may be responsible for restricted tongue movement. Differential diagnoses included macroglossia, submucosal cleft palate, Down syndrome, Pierre Robin Sequence, and Ehlers-Danlos Syndrome (EDS). Diagnosis was based on clinical presentation and exclusion of other conditions. Treatment involved surgical intervention, frenotomy, and then advice for speech therapy and maintaining oral hygiene.



Figure 1: A) restricted movement of the tongue, not able to extend his tongue beyond his lower lip; B) frenulum attaches at the tip of the tongue