**Evaluation of the effects of high powered laser and electro cautery in lingual frenotomy surgeries in infants - blind randomized controlled clinical study**

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# Abstract:

Ankyloglossia is an anomaly that is characterized by an abnormally short or thick lingual frenulum that can restrict the movements of the tongue and has been identified as one of the factors that can negatively interfere with breastfeeding, decreasing the ability of the newborn to handle proper. The repositioning of the lingual frenulum, also called lingual frenotomy, is the most recommended for infants because it is a less invasive technique. This surgery can be performed conventionally with a scalpel blade or with thermal resources such as an electric scalpel or high-powered lasers.  
Participants in this study will be infants between 0 to 3 months of age diagnosed with ankyloglossia, difficulties during breastfeeding, need for lingual frentomy and will be randomly distributed into groups and divided into groups: Surgery group with electro cautery and Laser surgery group high power diode.

The objective of the study will be to evaluate the release of the lingual frenulum through the lingual frenotomy performed with a high power diode laser or electro cautery techiniques.

# Biography:

Adriana Mazzoni is a master's student in the Biophotonic’s Program applied to Health Sciences at Universidade Nove de Julho in São Paulo, Brazil. She has been a specialist in pediatric dentistry at the University of santo Amaro in São Paulo since 1994, has been a Trainer in the Evaluation of the tongue brake by the Ministry of Health of Brazil since 2018, has been a teacher at the Essekabe School of Dentistry in São Paulo since 2018. She studies and works with breastfeeding since 1995, and is very interested in studying in detail the whole subject related to this theme. In her free time, she studies theater, philosophy and practices yoga and trecking.