Appendix 1

LINGUAL FRENULUM PROTOCOL WITH SCORES FOR INFANTS Martinelli et al, 2012

HISTORY
Name:Birth://
Examination date:// Gender: M () F ()
Mother's name:
Father's name:
Address:
City State ZIP:
Phone home: () office: () cell: ()
email:
Family history (any lingual franchism alteration)
Family history (any lingual frenulum alteration) () no (0) () yes (1) Who: What:
Other health problems:
() no () yes What:
Breastfeeding:
- time between feedings: () 3hours (0) () 2hours (0) () 1hour or less (2)
- fatigue during feeding? () no (0) () yes (1)
- sucks a little and sleeps? () no (0) () yes (1)
- slips off nipple? () no (0) () yes (1)
- chews nipple? () no (0) () yes (2)

HISTORY SCORES: Best result = 0 Worst result = 8

CLINICAL EXAMINATION

(video to future analysis suggested)

PART I – ANATOMO-FUNCTIONAL EVALUATION

1. Lip posture at rest







() half-open (1)



() open (1)

2. Tongue posture during crying



() midline (0)



() elevated (0)



() down (2)

3. Tongue shape during crying



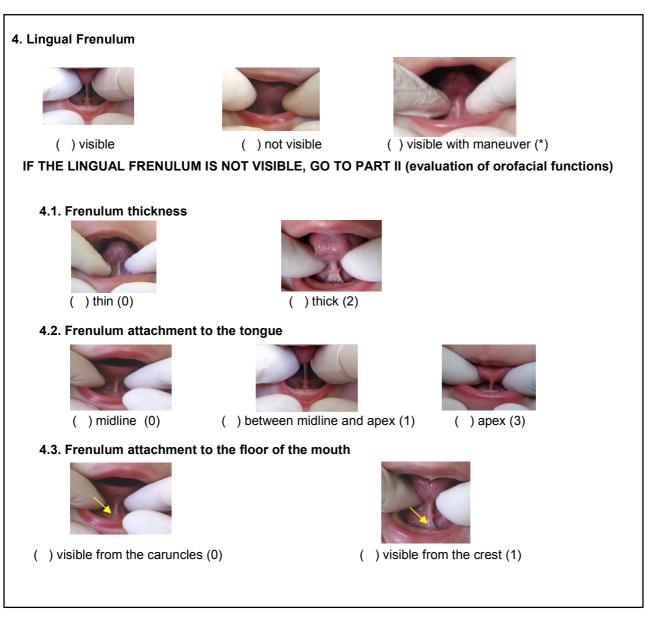
() round or square (0)



() V-shaped (2)



() heart-shaped (3)



^{*} Maneuver: elevate and push back the tongue. If the frenulum is not visible, the infant must be seen by speech-language pathologist each two months for periodic frenulum evaluation.

Anatomo-functional evaluation scores: Best result = 0 Worst result = 12

PART II - EVALUATION OF OROFACIAL FUNCTIONS

1. Non-nutritive sucking (little finger suction wearing gloss)
1.1. Tongue movement
() adequate: tongue protrusion, coordinated movements and efficient suction (0)
() inadequate: restricted tongue protrusion, uncoordinated movement and late suction start (1)
2. Nutritive sucking (when breastfeeding starts, observe infant sucking during 5 minutes)
2.1. Suction Rhythm (observe groups of suction and pauses)() several suctions in a row followed by short pauses (0)
() a few suctions followed by long pauses (1)
 2.2. Coordination among suction/ swallowing/ breathing () adequate (0) (balance between feeding and suction-swallowing-breathing without stress) () inadequate (1) (cough, choking, dyspnea)
2.3. Nipple chewing () no (0) () yes (2)
2.4. Clicking during sucking () no (0)
() non-systematic (1)
() frequent (2)

Orofacial function evaluation scores: Best result = 0 Worst result = 7

HYSTORY + CLINICAL EXAMINATION TOTAL SCORES: BEST RESULT=0 WORST RESULT= 27
WHEN THE SUM OF HISTORY AND CLINICAL EXAMINATION IS EQUAL OR MORE THAN 9,
LINGUAL FRENULUM MAY BE CONSIDERED ALTERED.