

STNR -Symmetrical Tonic Neck Reflex

Theory, Diagnosis, Treatment, HEP



Theory

Spinal Level Reflex (Brainstem)

- Prone on elbows
- Emergence: 13th week Gestation
- Integration: 10 months

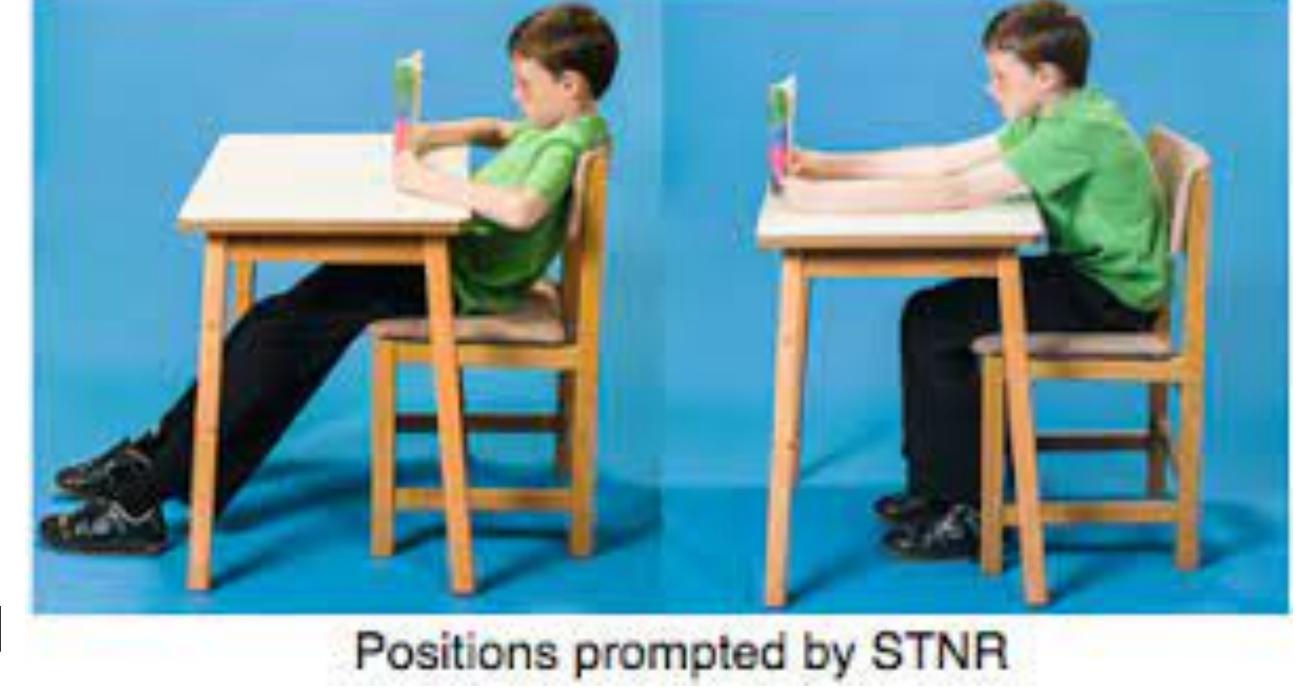
Other

- CDC no longer calling crawling a milestone
- Crawling provides:
 - Stability through shoulders
 - Stability through hips
 - Neck extension: Visual horizon, scanning for reading
 - Integration of Galant, Babkin, ATNR
 - Cross lateral movements
 - W-sitting



Diagnosis

- Whole body movement coordination
- Retained STNR
 - Kids have to bend knees when elbows are straight
 - When legs are bent, arms have to be straight
- REFERENCES
- 4. Parent Handbook: Symptoms and Developmental Delays



• 5. The Rhythmic Movement Method

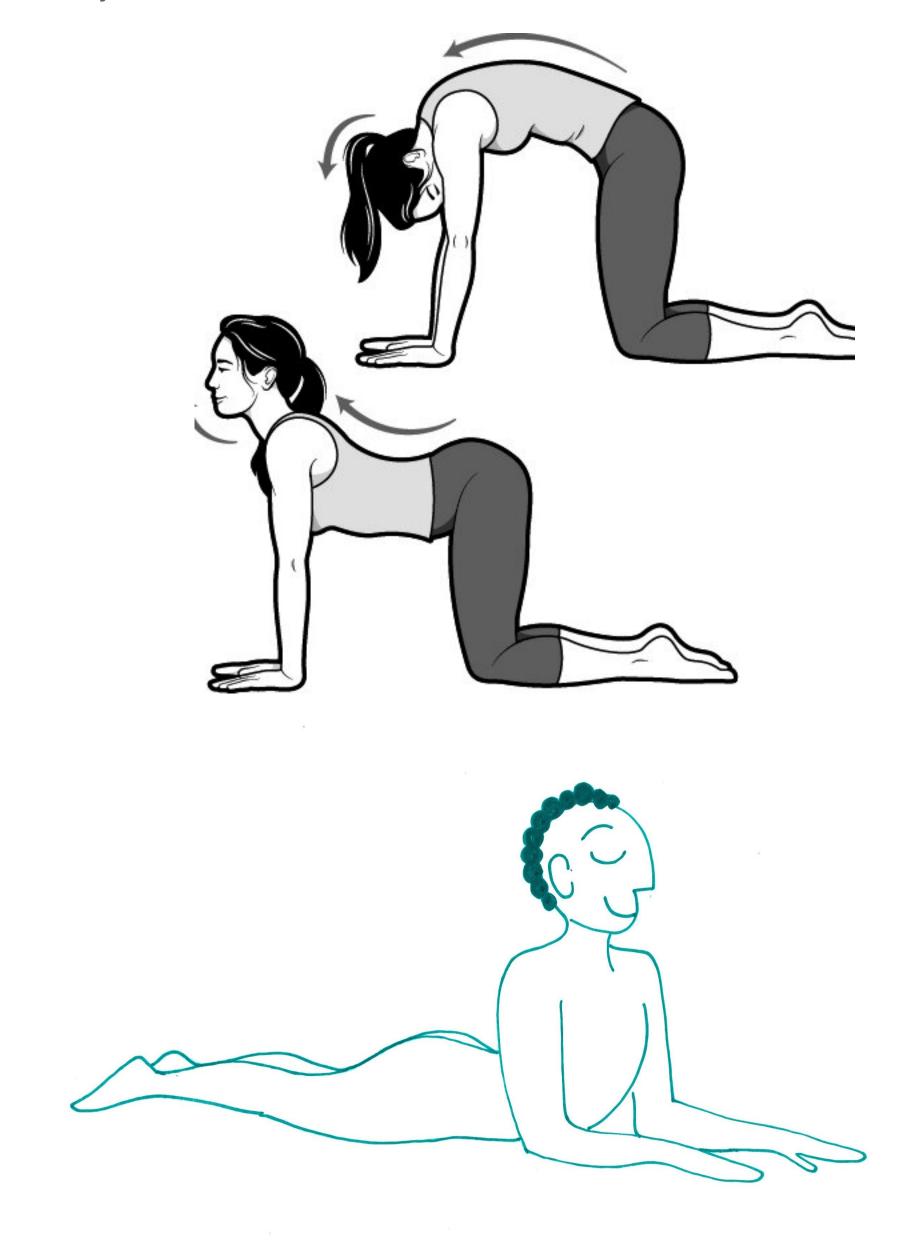
Treatment

- Sensory: Visual horizon stimulus
- Motor: Head extends with elongation of neck
- Putting the person in position and providing a proprioceptive input to head
- Vestibular initial development of 45 degree canal
- Proprioception Shoulder and hip socket stability
- Vision Finding Horizon



Home Program Integrating STNR

- CAT/COW, move into and hold for 7 seconds 5 sets
- Prone on elbows, attempt to hold position for up to 20 minutes. Start at 30 seconds and build.
- Building the shoulders/hips
- Crawling



2. https://www.yoremikids.com/news/sphinx-pose-kids-yoga

References

- 1. The New York Times, 2020, Rest Better with Light Exercise. https://www.nytimes.com/2020/10/10/at-home/exercises-for-better-sleep.html
- 2. YoreMi, 2022, Sphinx Pose for Kids: Gentle Beginner Backbend. https://www.yoremikids.com/news/sphinx-pose-kids-yoga
- 3. Whole Brain Living, 2015, Understanding Retained Primitive Reflexes. https://www.wholebrainliving.com/2015/12/understanding-retained-infant-reflexes.html
- 4. Masgutova, Svetlana. Magutov, Denis. Parents' Guide to MNRI. Orlando, Svetlana Masguvova Educational Institute for Neuro-Sensory-Motor and Reflexes Integration, LLC. 2015
- 5. Blomberg MD, Harald. The Rhythmic Movement Method. Middletown, Harald Blomberg MD, 2015.