Clinical Decision-Making in Childhood Motor Speech Disorders: Evidence and Trends

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1. CAS Definition and Theoretical Perspectives

2. Causes of CAS
   a. Neurobehavioral/Neurodevelopmental
   b. Genetic
   c. Idiopathic

3. Speech Sound Disorders and Classification
   a. Speech Delay
   b. Speech Errors
   c. Motor Speech Disorders
      i. Childhood Apraxia of Speech (CAS)
      ii. Childhood dysarthria

4. Speech Sound Disorder (SSD) Phenotype
   a. Overlap in signs between CAS and other SSDs
   b. What signs differentially diagnose CAS from other SSDs?

5. CAS Diagnostic Considerations: A Brief History
   a. From DAS to CAS
   b. Uncertainty in perceptual diagnostic criteria
   c. Limited consensus in diagnosis
6. The quest for behavioral and other markers of CAS (2009 – present)
   a. Syllable Repetition Test (Shriberg et al., 2009)
   b. The Madison Speech Assessment Protocol (MSAP; Shriberg et al., 2010)
   c. The 10-point checklist (Shriberg et al., 2012)
   d. Dynamic Evaluation of Motor Speech Skills (DEMSS; Strand et al., 2013)

7. Perceptual expert diagnosis still the gold standard; the quest for biomarkers and behavioral markers continues.

8. Trends and Evidence in Treatment:
   a. Motor Approaches
   b. Linguistic Approaches
   c. Combination Approaches
   d. AAC

9. Treatment Frameworks
   a. Principles of Motor Learning
   b. Cueing Hierarchy and Integral Stimulation

10. Two notable updates:
    a. Principles of Motor Learning (refer to Maas et al., 2008)
    b. ReST

11. The evolution of clinical signs in CAS
References


