



# Definitions

#### Language:

Communication system

Semantics: The meaning of words/signs.

*Morphology:* Meaningful portions of words/signs.

Syntax: Sentence structure.

Pragmatics: Social use of words/signs.

#### Speech:

Verbal means of communication

*Articulation:* How speech sounds are made.

*Voice:* Air moving through vocal folds to produce sound.

Fluency: The rhythm of speech.

### Disorders

#### Language:

Acquired or developmental

**Receptive language:** Understanding language

*Expressive language:* Using language

#### Speech:

Acquired or developmental

Articulation: Pronouncing sounds incorrectly

Voice: Vocal fold dysfunction

*Fluency:* Stuttering and cluttering (excessive breaks, disorganized speech planning)

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Children referred to EI due to	
language delays:	

Receptive	Expressive
	Does not babble, point, or gesture
Does not understand the words for 5-10 objects	Does not use at least three words
Does not follow one-step direction	Does not say "mama" or "dada"
Does not point to pictures or body parts when named	Does not use at least 25 words
Does not respond to questions	Does not use two-word phrases
Does not understand prepositions or action words or two-step directions	Does not ask for things by name
	Regression or loss of previously acquired skills
	Receptive Does not understand the words for 5-10 objects Does not follow one-step direction Does not point to pictures or body parts when named Does not respond to questions Does not understand prepositions or action words or two-step directions



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#### Children With Language Impairment Can Learn Two Languages

"There is no evidence for thinking that dual language learning is a risk factor for children with language delay or impairment and, in turn, there is no basis in evidence for counseling parents to switch to one language at home or to not place their children in immersion education" (Paradis....p.208)

Handbook on Bilingualism and Second Dual Language Development and Disorders: Language Learning, Second Edition by Johanne Paradis, Fred Genesee and Martha B. Crago







Phonological Process	Example	Gone by Approximately
Pre-vocalic voicing	Pig = big	3 years
Word final de-voicing	Pig = pick	3 years
Final consonant deletion	Comb = co	3 years; 3 months
Fronting	Car = tar	3 years; 6 months
Consonant harmony	Mine = mime Kittycat = tittytat	3 years; 9 months
Weak syllable deletion	Elephant = efant	4 years
Cluster reduction	Spoon = poon	4 years
Gliding of liquids	Run = one	5 years
Stopping	Fish = tish Chair = tare	3 years /f, s/ – 5 years /th, ch/











# What to do if you suspect CAS

#### Refer to SLP

CAS-specific interventions may help without the diagnosis

- Music
- Rhythm
- $\ensuremath{\,^\circ}$  Combining movement with vocalizing
- Work on pacing
- Sound play
- Tactile and visual cues for sounds in a play context for early childhood.

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# Tongue ties



Functional impacts:

- Breastfeeding
- Lifting tongue
- Sticking tongue out (heart-shaped)
- Moving tongue from side-to-side
- Licking lips/sweeping food debris from teeth

\*tongue ties <u>rarely</u> impact speech development\*

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# Surgical intervention is rarely recommended for articulation

"This study provides preliminary evidence of no difference between tongue mobility and speech outcomes in young children with or without intervention for tongue-tie during infancy."

Salt H, Claessen M, Johnston T, Smart S. (2020) Speech production in young children with tongue-tie. Int J Pediatr Otorhinolaryngol.

"There are no significant data to suggest a causative association between ankyloglossia and speech articulation problems."

Webb AN, Hao W, Hong P. (2013) The effect of tongue-tie division on breastfeeding and speech articulation: A systematic review. Int J Pediatr Otorhinolaryngol.

## When to Refer for Voice

- Chronically hoarse, harsh, breathy or raspy voice quality.
- An inappropriate vocal pitch for child's age or sex.
- Frequent pitch breaks.
- A voice that is consistently too soft.
- Hypernasality.
- Chronic vocal fry.

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# Speech and Language Disorders

#### Primary

Language delay Receptive language disorder Expressive language disorder Mixed receptive/expressive language disorder

Articulation disorder

Phonological disorder

# Secondary (attributable to another condition)

Autism Spectrum Disorder Cerebral Palsy Childhood Apraxia of Speech Dysarthria Hearing loss Intellectual disability Cleft lip and palate Selective mutism

## Any Questions?

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