

Speech disorder

Speech disorders or **speech impediments** are a type of communication disorder where 'normal' speech is disrupted. This can mean stuttering, lisps, etc. Someone who is unable to speak due to a speech disorder is considered mute.^[1]

Speech disorder/impediment	
Specialty	Psychiatry

Contents

Classification

Types of disorder

Causes

Treatment

Social effects

Language disorders

See also

References

External links

Classification

Classifying speech into normal and disordered is more problematic than it first seems. By a strict classification, only 5% to 10% of the population has a completely normal manner of speaking (with respect to all parameters) and healthy voice; all others suffer from one disorder or another.

There are three different levels of classification when determining the magnitude and type of a speech disorder and the proper treatment or therapy.^[2]

1. Sounds the patient can produce
 1. Phonemic – can be produced easily; used meaningfully and constructively
 2. Phonetic – produced only upon request; not used consistently, meaningfully, or constructively; not used in connected speech
2. Stimulate sounds
 1. Easily stimulated
 2. Stimulate after demonstration and probing (i.e. with a tongue depressor)
3. Cannot produce the sound
 1. Cannot be produced voluntarily
 2. No production ever observed

Types of disorder

- Apraxia of speech may result from stroke or progressive illness, and involves inconsistent production of speech sounds and rearranging of sounds in a word ("potato" may become "topato" and next "totapo"). Production of words becomes more difficult with effort, but common phrases may sometimes be spoken spontaneously without effort.
- Cluttering, a speech and fluency disorder characterized primarily by a rapid rate of speech, which makes speech difficult to understand.
- Developmental verbal dyspraxia also known as childhood apraxia of speech.
- Dysarthria is a weakness or paralysis of speech muscles caused by damage to the nerves or brain. Dysarthria is often caused by strokes, Parkinson's disease, ALS, head or neck injuries, surgical accident, or cerebral palsy.
- Dysprosody is the rarest neurological speech disorder. It is characterized by alterations in intensity, in the timing of utterance segments, and in rhythm, cadence, and intonation of words. The changes to the duration, the fundamental frequency, and the intensity of tonic and atonic syllables of the sentences spoken, deprive an individual's particular speech of its characteristics. The cause of dysprosody is usually associated with neurological pathologies such as brain vascular accidents, cranioencephalic traumatisms, and brain tumors.^[3]
- Muteness is the complete inability to speak.
- Speech sound disorders involve difficulty in producing specific speech sounds (most often certain consonants, such as /s/ or /r/), and are subdivided into articulation disorders (also called phonetic disorders) and phonemic disorders. Articulation disorders are characterized by difficulty learning to produce sounds physically. Phonemic disorders are characterized by difficulty in learning the sound distinctions of a language, so that one sound may be used in place of many. However, it is not uncommon for a single person to have a mixed speech sound disorder with both phonemic and phonetic components.
- Stuttering affects approximately 1% of the adult population.^[1]
- Voice disorders are impairments, often physical, that involve the function of the larynx or vocal resonance.

Causes

In most cases the cause is unknown. However, there are various known causes of speech impediments, such as hearing loss, neurological disorders, brain injury, An increase in mental strain, constant bullying, intellectual disability, drug abuse, physical impairments such as cleft lip and palate, and vocal abuse or misuse.^[4]

Treatment

Many of these types of disorders can be treated by speech therapy, but others require medical attention by a doctor in phoniatrics. Other treatments include correction of organic conditions and psychotherapy.^[5]

In the United States, school-age children with a speech disorder are often placed in special education programs. Children who struggle to learn to talk often experience persistent communication difficulties in addition to academic struggles.^[6] More than 700,000 of the students served in the public schools' special education programs in the 2000-2001 school year were categorized as having a speech or language impediment. This estimate does not include children who have speech and language impairments

secondary to other conditions such as deafness".^[4] Many school districts provide the students with speech therapy during school hours, although extended day and summer services may be appropriate under certain circumstances.

Patients will be treated in teams, depending on the type of disorder they have. A team can include SLPs, specialists, family doctors, teachers, and family members.

Social effects

Suffering from a speech disorder can have negative social effects, especially among young children. Those with a speech disorder can be targets of bullying because of their disorder. The bullying can result in decreased self-esteem.

Language disorders

Language disorders are usually considered distinct from speech disorders, even though they are often used synonymously.

Speech disorders refer to problems in producing the sounds of speech or with the quality of voice, where language disorders are usually an impairment of either understanding words or being able to use words and do not have to do with speech production.^[7]

See also

- British Stammering Association
- FOXP2
- SCN3A
- KE family
- Language disorder
- List of voice disorders
- Manner of articulation
- Motor speech disorders
- Speech and language pathology
- Speech and language pathology in school settings
- Speech and language assessment
- Speech perception
- Speech repetition

References

1. Kennison, Shelia M. (2014). *Introduction to language development*. Malaysia: SAGE. ISBN 978-1-4129-9606-8. OCLC 830837502 (<https://www.worldcat.org/oclc/830837502>).
2. Deputy, Paul; *Human Communication Disorders*; March 10, 2008
3. Pinto JA, Corso RJ, Guilherme AC, Pinho SR, Nóbrega Mde O (March 2004). "Dysprosody nonassociated with neurological diseases--a case report". *J Voice*. **18** (1): 90–6. doi:10.1016/j.jvoice.2003.07.005 (<https://doi.org/10.1016%2Fj.jvoice.2003.07.005>). PMID 15070228 (<https://pubmed.ncbi.nlm.nih.gov/15070228>).
4. "Disability Info: Speech and Language Disorders Fact Sheet (FS11)." National Dissemination Center for Children with Disabilities. <http://www.nichcy.org/pubs/factshe/fs11txt.htm>
5. "Speech Defect." Encyclopedia.com. <http://www.encyclopedia.com/doc/1E1-speechde.html>
6. Scott G. G.; O'Donnell P. J.; Sereno S. C. (2012). "Emotion words affect eye fixations during reading". *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

[doi:10.1037/a0027209](https://doi.org/10.1037/a0027209) (<https://doi.org/10.1037/a0027209>).

7. "NICHCY's New Home" (<http://www.nichcy.org/pubs/factshe/fs11txt.htm>). *nichcy.org*.

External links

Classification **ICD-10:** F98.5 (<http://apps.who.int/classifications/icd10/browse/2016/en#/F98.5>)-F98.6 (<http://apps.who.int/classifications/icd10/browse/2016/en#/F98.6>), R47 (<http://apps.who.int/classifications/icd10/browse/2016/en#/R47>) • **ICD-9-CM:** 307.0 (<http://www.icd9data.com/getICD9Code.ashx?icd9=307.0>), 784.5 (<http://www.icd9data.com/getICD9Code.ashx?icd9=784.5>) • **MeSH:** D013064 (https://www.nlm.nih.gov/cgi/mesh/2015/MB_cgi?field=uid&term=D013064)

Retrieved from "https://en.wikipedia.org/w/index.php?title=Speech_disorder&oldid=925078867"

This page was last edited on 7 November 2019, at 18:30 (UTC).

Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. By using this site, you agree to the [Terms of Use](#) and [Privacy Policy](#). Wikipedia® is a registered trademark of the [Wikimedia Foundation, Inc.](#), a non-profit organization.