

# Broca's speech center

# Broca's speech center

## General information

Broca's speech center is located on one side of the frontal lobe (lateral gyrus frontalis inferior) in Brodmann's areas 44 and 45. However, its location is variable because it is located in the dominant (speech) hemisphere of the individual. Its main function is to coordinate the motor muscles needed to form words and coherent sentences.

## Disorders

When Broca's center is damaged, a disorder known as aphasia occurs. It can be the result of mechanical brain damage, chemical brain damage (drug intoxication or stroke), inflammation or tumor. An individual with aphasia understands speech, but has extensive problems with word formation. The individual is aware of his problems.

Common problems are:

- difficulty with pronunciation,
- stammer,
- inconsistency of sentences,
- choppy speech
- impaired understanding of two important words,
- omitting letters or whole words,
- sometimes even one-word sentences.

A milder form of aphasia is dysphasia.

## Interestingness

It is not a 100% rule that Broca's speech center is in the dominant hemisphere. This is the case with most right-handers, after which only about half of individuals comply with this rule for left-handers.

## Link

<https://www.wikiskripta.eu/index.php?curid=69213>