

Auditory Processing Disorders

Brain Locations and Functions

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Brain Location	Function	Disorder
Right hemisphere	Abstract and symbolic language concepts, organizing the sequence of speech, the recognition of voices, and the detection of emotion in the intonation of voice	N/A (General description of multi-functions of right hemisphere)
Auditory Association Cortex Consists of: <ul style="list-style-type: none">• Echoic Memory &• Auditory association complex	Echoic memory replays auditory information heard while absorbed in other tasks. Auditory comprehension of speech Memory of auditory information	Inability to recall or remember auditory information (<i>auditory processing disorder</i>)
Left temporal lobe	Recognition of auditory words	<i>Pure word deafness</i> ; the inability to recognize auditory words. Yet, still able to read and write
Right hemisphere Consists of: <ul style="list-style-type: none">• Parietal lobe &• Anterior superior temporal cortex	The recognition of voices	<i>Phonagnosia</i> is the inability to recognize voices

Reference: Carlson, N. R., & Birkett, M. A., (2017). *Physiology of behavior* (12th ed). Boston, MA: Pearson Education Limited.