gerstmanns

1. Noun	
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gerstmanns

Finger

Gerstmann syndrome is a neuropsychological disorder that is characterized by a constellation of symptoms that
suggests the presence of a lesion in a particular area of the brain. Destruction to the inferior parietal
Noun of the dominant hemisphere results in Gerstmann's syndrome.
It is named for Josef Gerstmann.[1]
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Primary symptoms[edit]
Gerstmann syndrome is characterized by four primary symptoms:
Dysgraphia/agraphia: deficiency in the ability to write[2][3]
Dyscalculia/acalculia: difficulty in learning or comprehending mathematics[2][3]

agnosia: inability to distinguish the fingers on the hand[2][3]

Left-right disorientation[2][3]

Causes[edit]

This disorder is often associated with brain lesions in the dominant (usually left) hemisphere including the angular and supramarginal gyri near the temporal and parietal lobe junction. There is significant debate in the scientific literature as to whether Gerstmann Syndrome truly represents a unified, theoretically motivated syndrome. Thus its diagnostic utility has been questioned by neurologists and neuropsychologists alike. The angular gyrus is generally involved in translating visual patterns of letter and words into meaningful information, such as is done while reading.

In adults[edit]

In adults, the syndrome may occur after a stroke or in association with damage to the parietal lobe.[3]

In addition to exhibiting the above symptoms, many adults also experience aphasia, which is a difficulty in expressing oneself when speaking, in understanding speech, or in reading and writing.

In children[edit]

There are few reports of the syndrome, sometimes called developmental Gerstmann syndrome, in children.[4]

The cause is not known. Most cases are identified when children reach school age, a time when they are

challenged with writing and math exercises. Generally, children with the disorder exhibit poor handwriting and
spelling skills, and difficulty with math functions, including adding, subtracting, multiplying, and dividing. An
inability to differentiate right from left and to discriminate among individual fingers may also be apparent. In
addition

to the four primary symptoms, many children also suffer from constructional apraxia, an inability to copy simple drawings. Frequently, there is also an impairment in reading. Children with a high level of intellectual functioning as well as those with brain damage may be affected with the disorder.[citation needed]

Treatment[edit]

There is no cure for Gerstmann syndrome. Treatment is symptomatic and supportive. Occupational and speech therapies may help diminish the dysgraphia and apraxia. In addition, calculators and word processors may help school children cope with the symptoms of the disorder.

Prognosis[edit]

In adults, many of the symptoms diminish over time. Although it has been suggested that a similar diminishing of symptoms occurs in children as well, it appears more likely that most do not overcome their deficits, but instead simply learn to adjust.[5]

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