

Pragmatic Communication Disorder

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One patient has Pragmatic Communication Disorder. He had delayed communication up to age 6. He was a loner in Junio high school. He is stubborn but when you get him talking, he does not stop. He is full of interesting information. He has poor social communication skills.

He is 54 and had cancer in his left eye when he was 1 year old. They surgically removed the eye. We suspect that there was radiation treatment following. There is a sprout of grey hair just where the radiation would have left the skull. Of course, Broca's Area

and Wernicke's Area is in the left cerebral lobe.

In school, he had terrible trouble with Mathematics. He also could not do chemistry because he said he "couldn't think that small." This is despite having an unusually great interest in science.

"Pragmatic" really describes his communication technique. He is intensely logical and enjoys computers a lot. He evaluates what others say on a logical analysis. He analyzes everything from a logical point of view.

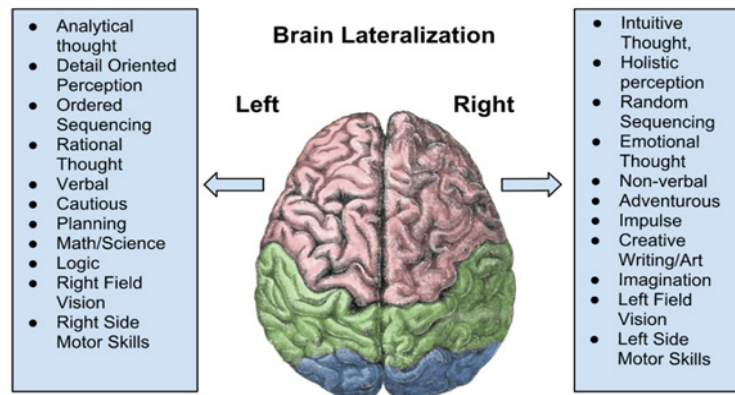


Figure 1: Note that Math/ Science is one the left hemisphere. So is verbal and logic. Source: <https://human-memory.net/left-and-right-hemisphere-of-the-brain/>

The two areas in the brain responsible for speech, of course, are Broca's Area and Wernicke's Area in the left hemisphere. Broca's area is responsible for grammar and fluency whereas Wernicke's Area is responsible for language comprehension.

The sprout of grey hair (radiation exit) is in line with Wernicke's Area. I suspect that there was damage to the patient's Wernicke's Area. The patient also had delayed development in speech ori-

nation.

The lack of abstraction is likely due to the eye cancer treatments. It results in troubles with Mathematics and abstract and analytical thinking. This may be an avenue to pursue for further research for Pragmatic Communication Disorder.

<https://human-memory.net/wernickes-area/>

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