



Brain Region Localization Form

INSTRUCTIONS:

The purpose of this questionnaire is to identify difficulties that you may be experiencing. Please select yes or no.

Epileptiform Activity	Yes / No
Have you ever been diagnosed with a seizure disorder?	Yes / No
Have you ever been diagnosed with epilepsy?	Yes / No
Have you ever been told that you seemed frozen, absent, or tuned out at times without any recollection of the event?	Yes / No
Have you ever experienced sudden muscle stiffness and rigidity throughout your body?	Yes / No
Have you ever experienced sudden muscle jerks throughout your body?	Yes / No
Have you ever experienced a total loss of your muscle tone that lead to loss of control of your muscles or a fall?	Yes / No
Have you ever been told that you stare into space while you're lip smacking, chewing, or fidgeting that you are not aware of?	Yes / No
Do you ever experience sudden emotional responses such as anxiety, sadness, cry, or laugh for no real reason?	Yes / No
Do you ever experience sudden racing heart rate, sudden loss of bladder function, intestinal spasm, respiration, sweating, or any other sudden changes of function?	Yes / No
Do you ever experience sudden involuntary muscle contractures or jerks in any individual parts of your limbs or face?	Yes / No
Do you ever experience sudden involuntary head rotation and your eyes move forcefully to one side?	Yes / No
Do you ever experience sudden involuntary shift in your eyes to the side or upwards?	Yes / No
Do you ever experience sudden vocalization of random words or notice a sudden inability to speak?	Yes / No
Do you ever experience any spontaneous sensations of tingling, pins and needles" numbness, coldness, burning or other random sensations in any region of your body?	Yes / No
Do you ever experience a ringing sensation in your ears (tinnitus), sounds, or voices spontaneously?	Yes / No
Do you ever experience spontaneous perception of smells such as burning rubber, foul smells, or other odors without finding the source of the odor?	Yes / No
Do you ever experience flashing lights, stars, or jagged lines in your visual field?	Yes / No



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KEY:

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Frontal lobe Prefrontal, Dorsolateral and Orbitofrontal (Areas 9, 10, 11, and 12)		Level
1.	Difficulty with restraint and controlling impulses or desires	0 1 2 3 4
2.	Emotional instability (lability)	0 1 2 3 4
3.	Difficulty planning and organizing	0 1 2 3 4
4.	Difficulty making decisions	0 1 2 3 4
5.	Lack of motivation, enthusiasm, interest and drive (apathetic)	0 1 2 3 4
6.	Difficulty getting a sound or melody out of your thoughts (Perseveration)	0 1 2 3 4
7.	Constantly repeat events or thoughts with difficulty letting go	0 1 2 3 4
8.	Difficulty initiating and finishing tasks	0 1 2 3 4
9.	Episodes of depression	0 1 2 3 4
10.	Mental fatigue	0 1 2 3 4
11.	Decrease in attention span	0 1 2 3 4
12.	Difficulty staying focused and concentrating for extended periods of time	0 1 2 3 4
13.	Difficulty with creativity, imagination, and intuition R	0 1 2 3 4
14.	Difficulty in appreciating art and music R	0 1 2 3 4
15.	Difficulty with analytical thought L	0 1 2 3 4
16.	Difficulty with math, number skills and time consciousness L	0 1 2 3 4
17.	Difficulty taking ideas, actions, and words and putting them in a linear sequence L	0 1 2 3 4

Frontal Lobe Precentral and Supplementary Motor Areas (Area 4 and 6)		Level
18.	Initiating movements with your arm or leg has become more difficult	0 1 2 3 4
19.	Feeling of arm or leg heaviness, especially when tired	0 1 2 3 4
20.	Increased muscle tightness in your arm or leg	0 1 2 3 4
21.	Reduced muscle endurance in your arm or leg	0 1 2 3 4
22.	Noticeable difference in your muscle function or strength from one side to the other	0 1 2 3 4
23.	Noticeable difference in your muscle tightness from one side to the other	0 1 2 3 4
Frontal Lobe Broca's Motor Speech Area (Area 44 and 45)		Level
24.	Difficulty producing words verbally, especially when fatigued	0 1 2 3 4
25.	Find the actual act of speaking difficult at times	0 1 2 3 4
26.	Notice word pronunciation and speaking fluency change at times	0 1 2 3 4
Parietal Somatosensory Area and Parietal Superior Lobule (Areas 3,1,2 and 7)		Level
27.	Difficulty in perception of position of limbs	0 1 2 3 4
28.	Difficulty with spatial awareness when moving, laying back in a chair, or leaning against a wall	0 1 2 3 4
29.	Frequently bumping body or limbs into the wall or objects accidentally	0 1 2 3 4
30.	Reoccurring injury in the same body part or side of the body	0 1 2 3 4
31.	Hypersensitivities to touch or pain perception	0 1 2 3 4



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Parietal Inferior Lobule (Area 39 and 40)		Level	Medial Temporal lobe and Hippocampus		Level
32.	Right/left confusion <input type="checkbox"/> L	0 1 2 3 4	49.	Memory less efficient	0 1 2 3 4
33.	Difficulty with math calculations <input type="checkbox"/> L	0 1 2 3 4	50.	Memory loss that impacts daily activities	0 1 2 3 4
34.	Difficulty finding words <input type="checkbox"/> L	0 1 2 3 4	51.	Confusion about dates, the passage of time, or place	0 1 2 3 4
35.	Difficulty with writing <input type="checkbox"/> L	0 1 2 3 4	52.	Difficulty remembering events	0 1 2 3 4
36.	Difficulty recognizing symbols or shapes <input type="checkbox"/> R	0 1 2 3 4	53.	Misplacement of things and difficulty retracing steps	0 1 2 3 4
37.	Difficulty with simple drawings <input type="checkbox"/> R	0 1 2 3 4	54.	Difficulty with memory of locations (addresses) <input type="checkbox"/> R	0 1 2 3 4
38.	Difficulty interpreting maps <input type="checkbox"/> R	0 1 2 3 4	55.	Difficulty with visual memory <input type="checkbox"/> R	0 1 2 3 4
Temporal Lobe Auditory Cortex (Areas 41, 42)		Level	56.	Always forgetting where you put items such as keys, wallet, phone, etc. <input type="checkbox"/> R	0 1 2 3 4
39.	Reduced function in overall hearing	0 1 2 3 4	57.	Difficulty remembering faces <input type="checkbox"/> R	0 1 2 3 4
40.	Difficulty interpreting speech with background or scatter noise	0 1 2 3 4	58.	Difficulty remembering names with faces <input type="checkbox"/> L	0 1 2 3 4
41.	Difficulty comprehending language without perfect pronunciation	0 1 2 3 4	59.	Difficulty with remembering words <input type="checkbox"/> L	0 1 2 3 4
42.	Need to look at someone's mouth when they are speaking to understand what they are saying	0 1 2 3 4	60.	Difficulty remembering numbers <input type="checkbox"/> L	0 1 2 3 4
43.	Difficulty in localizing sound	0 1 2 3 4	61.	Difficulty remembering to stay or be on time (reduced left) <input type="checkbox"/> L	0 1 2 3 4
44.	Dislike of predictable rhythmic, repeated tempo and beat music <input type="checkbox"/> L	0 1 2 3 4	Occipital Lobe (Area, 17, 18, and 19)		Level
45.	Dislike of non-predictable rhythmic with multiple instruments <input type="checkbox"/> R	0 1 2 3 4	62.	Difficulty in discriminating similar shades of color	0 1 2 3 4
46.	Noticeable ear preference when using your phone	right, left, no preference	63.	Dullness of colors in visual field	0 1 2 3 4
Temporal Lobe Auditory Association Cortex (Area 22)		Level	64.	Difficulty coordinating visual inputs and hand movements, resulting in an inability to efficiently reach out for objects	0 1 2 3 4
47.	Difficulty comprehending meaning of spoken words <input type="checkbox"/> L	0 1 2 3 4	66.	Floater or halos in visual field	0 1 2 3 4
48.	Tend toward monotone speech without fluctuations or emotions <input type="checkbox"/> R	0 1 2 3 4			



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Cerebellum - Spinocerebellum		Level
67.	Difficulty with balance, or balance that is worse on one side	0 1 2 3 4
68.	A need to hold the handrail or watch each step carefully when going down stairs	0 1 2 3 4
69.	Feeling unsteady and prone to falling in the dark	0 1 2 3 4
70.	Proness to sway to one side when walking or standing	0 1 2 3 4
Cerebellum - Cerebrocerebellum		Level
71.	Recent clumsiness in hands	0 1 2 3 4
72.	Recent clumsiness in feet or frequent tripping	0 1 2 3 4
73.	A slight hand shake when reaching for something at the end of movement	0 1 2 3 4
Cerebellum - Vestibulocerebellum		Level
74.	Episodes of dizziness or disorientation	0 1 2 3 4
75.	Back muscles that tire quickly when standing or walking	0 1 2 3 4
76.	Chronic neck or back muscle tightness	0 1 2 3 4
77.	Nausea, car sickness, or sea sickness	0 1 2 3 4
78.	Feeling of disorientation or shifting of the environment	0 1 2 3 4
79.	Crowded places cause anxiety	0 1 2 3 4
Basal Ganglia Direct Pathway		Level
80.	Slowness in movements	0 1 2 3 4
81.	Stiffness in your muscles (not joints) that goes away when you move	0 1 2 3 4
82.	Cramping of hands when writing	0 1 2 3 4
83.	A stooped posture when walking	0 1 2 3 4
84.	Voice has become softer	0 1 2 3 4
85.	Facial expression changed leading people to frequently ask if you are upset or angry	0 1 2 3 4
Basal Ganglia Indirect Pathway		Level
86.	Uncontrollable muscle movements	0 1 2 3 4
87.	Intense need to clear your throat regularly or contract a group of muscles	0 1 2 3 4
88.	Obsessive compulsive tendencies	0 1 2 3 4
89.	Constant nervousness and restless mind	0 1 2 3 4
Autonomic Reduced Parasympathetic Activity		Level
90.	Dry mouth or eyes	0 1 2 3 4
91.	Difficulty swallowing supplements or large bites of food	0 1 2 3 4
92.	Slow bowel movements and tendency for constipation	0 1 2 3 4
93.	Chronic digestive complaints	0 1 2 3 4
94.	Bowel or bladder incontinence resulting in staining your underwear	0 1 2 3 4
Autonomic Increased Sympathetic Activity		Level
95.	Tendency for anxiety	0 1 2 3 4
96.	Easily startled	0 1 2 3 4
97.	Difficulty relaxing	0 1 2 3 4
98.	Sensitive to bright or flashing lights	0 1 2 3 4
99.	Episodes of racing heart	0 1 2 3 4
100.	Difficulty sleeping	0 1 2 3 4