

In the **Basic assessment** you will receive surface and cortical maps.

Even though the top layer of the brain is just millimeters thick, there is a lot of activity that happens there. That is why we need the surface maps. It is useful to look at deeper structures, too, like the limbic system, because it is involved in many brain processes/functions.

Montage: Laplacian
Eyes Open

Summary of the Z-score analyses

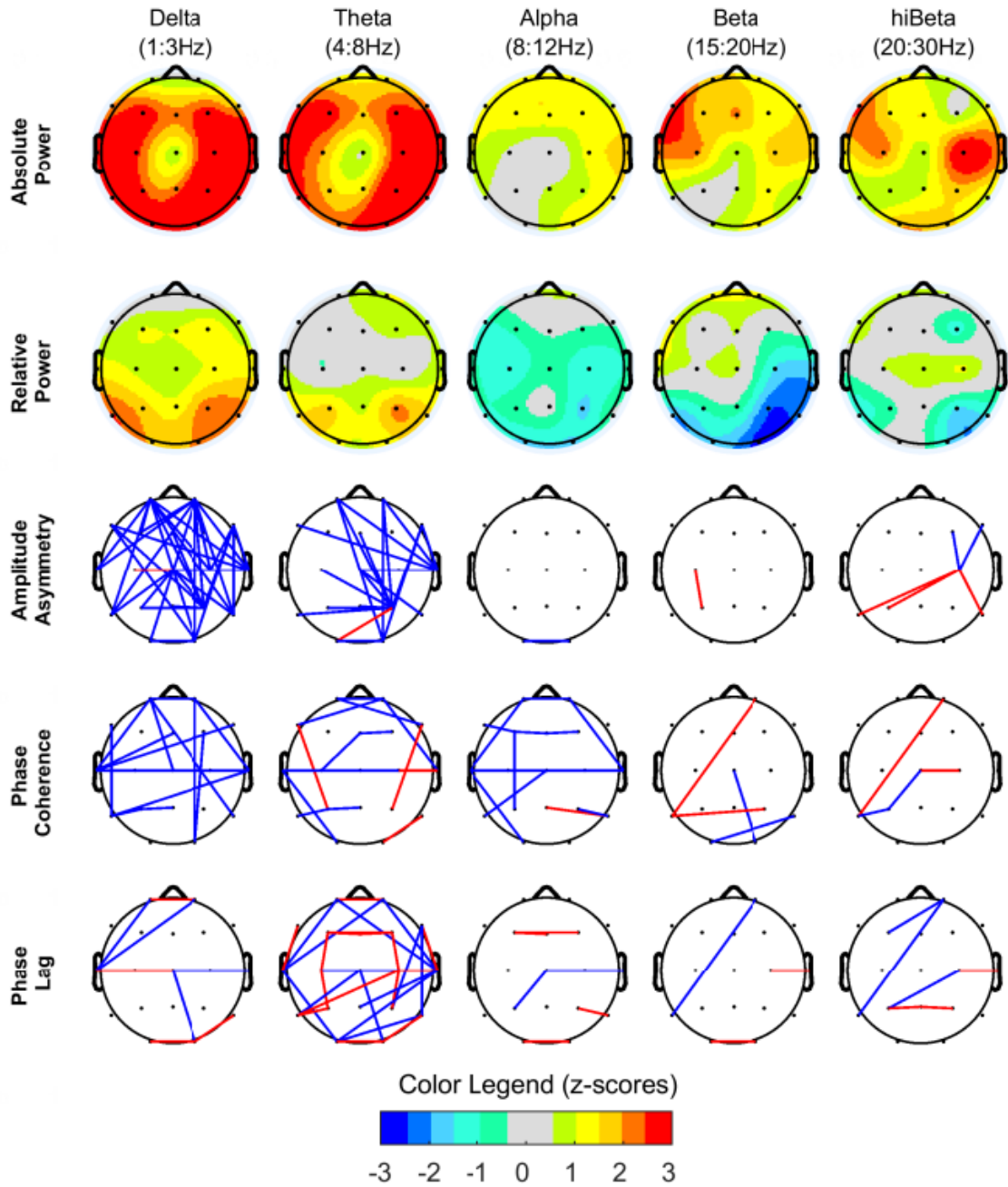


Image from Cortical Report

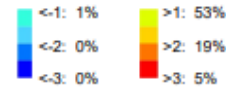
sLORETA Summary



EEG ID: 710355
 Test Date: 2024-08-15
 Age: 40.1
 Gender: Male
 Montage: Linked Ears
 Eyes Closed

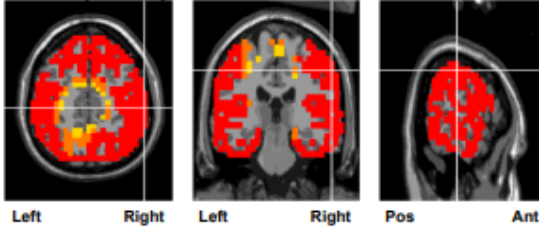
Extreme Z-scores					
Delta: Z=4.9	2 Hz	BA: 3	hiBeta: Z=4.7	34 Hz	BA: 40
Theta: Z=3.8	4 Hz	BA: 40	Gamma: Z=4.4	35 Hz	BA: 40
Alpha: Z=2.1	12 Hz	BA: 10	Alpha1: Z=2	8 Hz	BA: 10
loBeta: Z=2.3	15 Hz	BA: 21	Alpha2: Z=2.1	12 Hz	BA: 10
Beta: Z=2.6	16 Hz	BA: 21			

Percentage Deviant Voxels (1-45Hz)



Delta (1-3Hz)

Z-score: 4.9, Frequency: 2 Hz



Brain Area:

Parietal Lobe
 Postcentral Gyrus
 Brodmann area 3

Function:

Proprioception
 Texture Information
 Object Size and Shape
 Body Sensation

Possible Symptoms of Defect:

Agraphesthesia
 Asternognosis
 Hemihyesthesia
 Loss of Vibration
 Proprioception
 Fine Touch
 Hemineglect
 Reduction in Nociception
 Thermoception
 Crude Touch
 Dysfunction in size/shape/texture discrimination
 Chronic Pain (R)

Percentage Deviant Voxels Delta (1-3Hz)

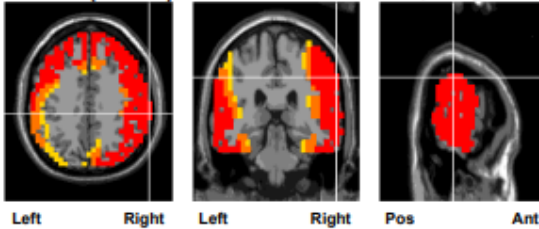


Online information:

https://en.wikipedia.org/wiki/Brodmann_area_3
www.fmriconsulting.com/brodmann/BA3.html

Theta (4-7Hz)

Z-score: 3.8, Frequency: 4 Hz



Brain Area:

Parietal Lobe
 Inferior Parietal Lobule
 Brodmann area 40

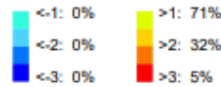
Function:

Somatosensory

Possible Symptoms of Defect:

Fibromyalgia
 Migraines
 Slow Reading
 Difficulty with Social Cues (R)
 Dyscalculia
 Dyslexia (L)
 Agnosia (R)
 Denial (R)
 Letter Perception Problems (L)
 Insensitive to Others' Emotional Expressions (R)
 Receptive Language Problems (L)
 Facial Recognition Problems
 Spatial Orientation Problems (R)
 Poor Social Skills (R)

Percentage Deviant Voxels Theta (4-7Hz)

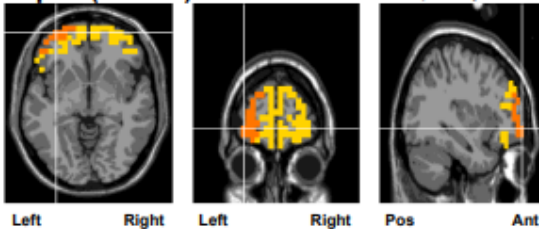


Online information:

https://en.wikipedia.org/wiki/Brodmann_area_40
www.fmriconsulting.com/brodmann/BA40.html

Alpha (8-12Hz)

Z-score: 2.1, Frequency: 12 Hz



Brain Area:

Frontal Lobe
 Middle Frontal Gyrus
 Brodmann area 10

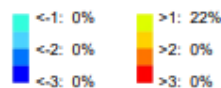
Function:

Strategic Processes
 Memory Recall
 Some Executive Functions
 Executive Emotion And Planning

Possible Symptoms of Defect:

Executive Function Problems
 Compulsive Thoughts or Behaviors
 Impulsive
 Oppositional
 Concentration Problems
 Amnesia
 Aphasia
 Anger Control Problems
 Low Motivation
 Mood Swings
 Delusional
 Failure to Initiate Actions
 Obsessive Thoughts about Self
 Multitasking Problems

Percentage Deviant Voxels Alpha (8-12Hz)



Online information:

https://en.wikipedia.org/wiki/Brodmann_area_10
www.fmriconsulting.com/brodmann/BA10.html

sLoreta Source Reconstruction at 13 Hz

