



Your complete brain assessment tool

What do my wavi results mean?

TRAIL MAKING

A standard measure of brain function and includes measures of psychomotor and visual scanning.

THETA/BETA AT CZ

Theta and Beta frequency bands are affected by cortical arousal and can give insight into how your brain functions. In some people high theta/beta ratios at CZ may present as inattention, while others may benefit from cortical arousal. Consult your physician if you have questions.

PHYSICAL REACTION TIME

A measure of speed in response to an audible odd tone. This relies on different pathways than the P300, so physical reaction time may be different than your brain speed.

F3/F4 ALPHA POWER

Large differences in Alpha power between the left-front and right-front of the brain have been associated with depression and/or anxiety.

AUDITORY P300

A measure of brain response speed and attentional resources. P300 slowing and/or a reduction in voltage may signal changes in cognitive function.

CONNECTIVITY

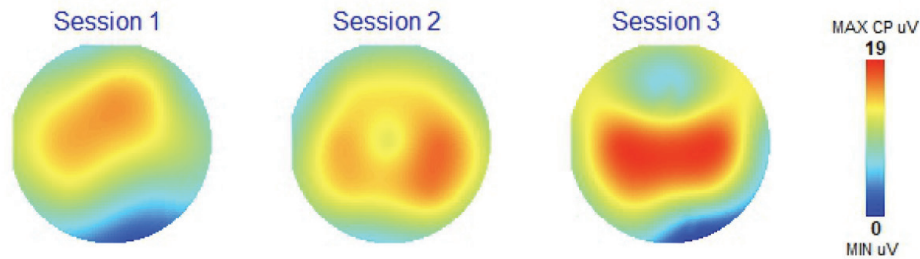
Coherence is a measure of the correlation between two channels as a function of frequency. It also provides information about functional connectivity between cortical regions, revealing possible cognitive impairment.



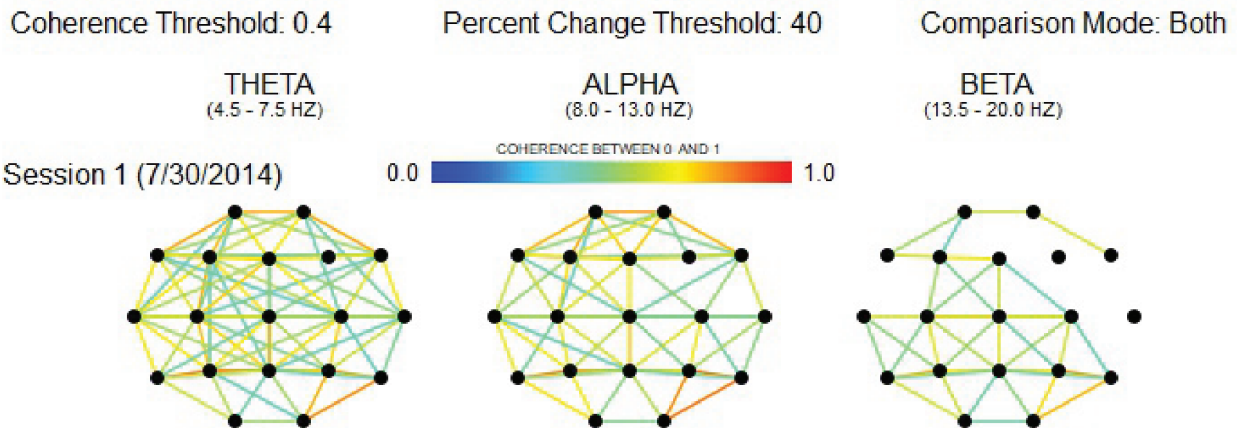


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Z-PATIENT, Normal	Session 1 (7/30/2014)	Session 2 (7/9/2015)	Session 3 (2/10/2016)	Target Range
Performance Assessments				
2 Physical Reaction Time	306 (± 108) ms	256 (± 73) ms	210 (± 63) ms	269–387 ms
3 Trail Making Test A	68 sec	60 sec	65 sec	39–67 sec
Trail Making Test B	95 sec	92 sec	87 sec	52–102 sec
Evoked Potentials				
1 Audio P300 Delay	300 ms	272 ms	260 ms	249–323 ms
Test/Retest Change	-	-28 ms	-40 ms	± 11 ms
Audio P300 Voltage	15.2 μ V	17.3 μ V	19.4 μ V	9–22 μ V
Test/Retest Change	-	2 μ V	4 μ V	± 2 μ V
State				
4 CZ Eyes Closed Theta/Beta (Power)	2.1	1.9	1.8	1.2–2.9
5 F3/F4 Eyes Closed Alpha (Magnitude)	0.7	1.5	1.0	0.9–1.1
Maximum P300 Test Depth (μV) — Range: 240–500 ms — Topo scale referenced to Session 3				



6 **Coherence Network Graphs, P300 Eyes Closed**
Row shows color-mapped coherence between head locations.



Disclaimer: The WAVI Headset is FDA cleared for use in routine clinical and research settings where rapid placement of a number of EEG electrodes is desired. The WAVI Desktop software is provided as a service for use in clinical and research settings where a combination of research-EEG with evoked responses and public domain assessment tools is desired. WAVI reports have not been evaluated by the FDA and are provided for research, education, and information. WAVI makes no warranty as to the accuracy of the screening and assessment tools.

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