

EEG/EP Patient Report

Physician/Practice Information: Study Technician: Ordering Physician: Signature Test Notes:	Patient Information: Name: ID: Birth Date: 04/06/1945 Study Information: Order Notes: Data-Set ID: 11173 Date Uploaded: 05/16/2018
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Study Findings:

I have had the opportunity to review your e-mail regarding the above patient, and also have reviewed the report of the EEG/EP performed on 5/16/18.

As per your report, this 73 year old patient suffered a traumatic head incident in a motor vehicle accident on 1/16/17.

The EEG/EP report indicates that the patient had low amplitude P3b and P3a electrical responses in the brain. These findings are indicative of impaired cognitive function, particularly with focal attention and working memory.

The findings on the study are consistent with brain damage due to a head injury.

Because there is no history of prior dementia or prior cognitive impairment, then it is medically probable that the impaired brain function is due to the head injury that occurred in the motor vehicle accident.



David W. Brandes, MS, MD, FAAN, FAHA

Review of the data was performed retrospectively and involved assessment of several key features of the test battery.

N200 Latency: N/A but Average Amplitude is normal.

P3b Amplitude: Decreased

P3a Amplitude: Decreased

PAF: Normal

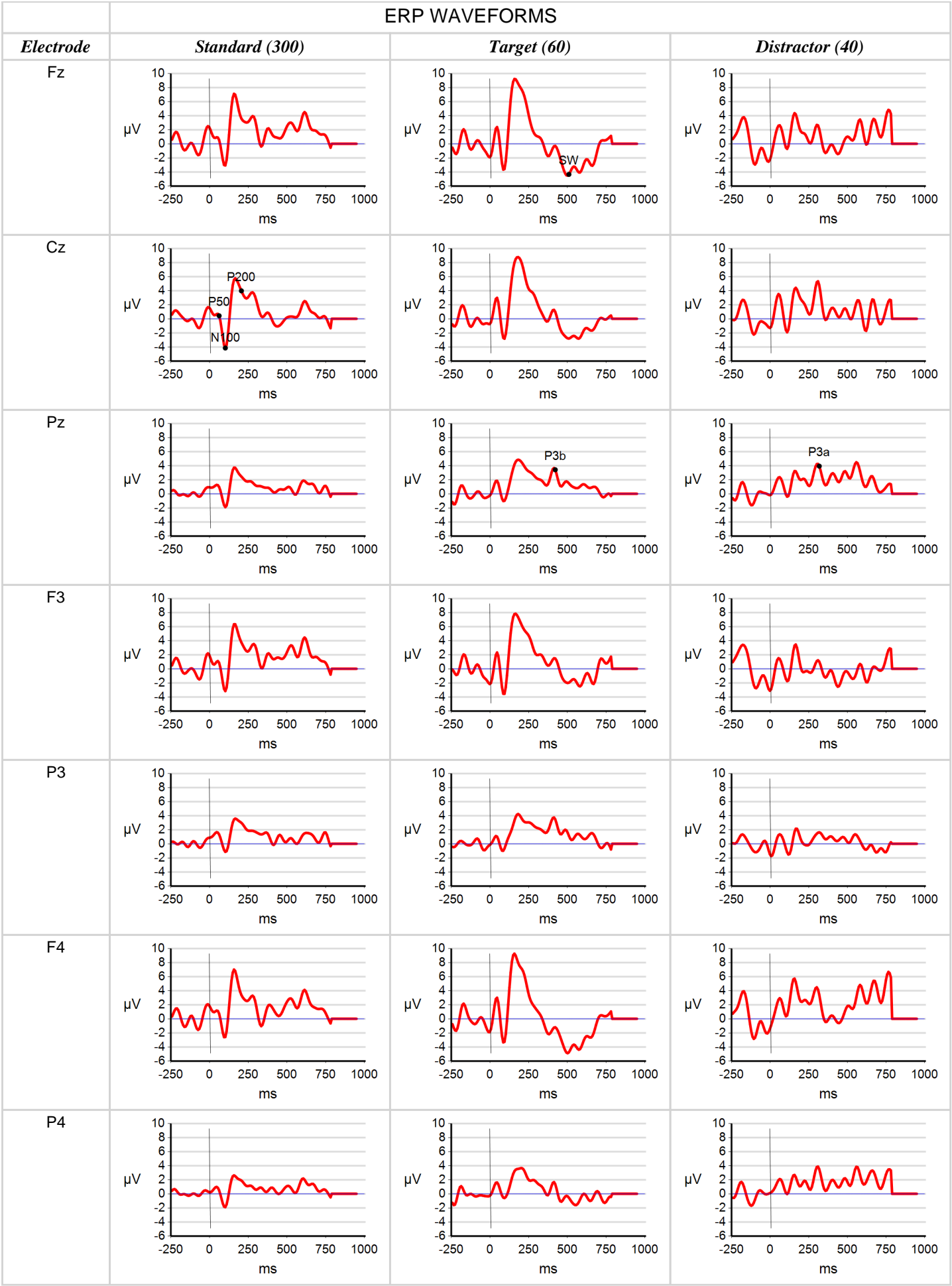
These results are determined by the COGNITION system and normative data which the test data was compared to is provided by COGNITION, some of which has been previously published in M. Cecchi, D. K. Moore, C. H. Sadowsky, P. R. Solomon, P. M. Doraiswamy, C. D. Smith, G. Jicha, A. E. Budson, S. E. Arnold, and K. C. Fadem, A clinical trial to validate event-related potential markers of Alzheimer's disease in outpatient settings, *Alzheimers Dement. Diagnosis, Assess. Dis. Monit.*, vol. 1, no. 4, pp. 387-394, Oct. 2015.

Study Protocol:

Auditory_Oddball_Active_3_01

Test Name	Test Description	Patient Instructions
Auditory_Oddball_Training_2_01		Press button with your dominant hand (red button for right-handed and blue button for left-handed) when you hear the high-pitched tone.
Auditory_Oddball_Active_3_01		Press button with your dominant hand (red button for right-handed and blue button for left-handed) when you hear the high-pitched tone.
EEG	EEG capture	

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Test Name: Auditory_Oddball_Active_3_01				
TASK PERFORMANCE				
<i>Feature</i>		<i>Value</i>		
Button Press Accuracy (%)		98.3		
False Alarms (%)		0.6		
Median Reaction Time (ms)		472.0		
ERP FEATURES				
<i>Feature</i>	<i>Stimulus</i>	<i>Amplitude (μV)</i>	<i>Latency (ms)</i>	<i>Avg Amplitude (μV)</i>
P50	Standard	1.18	58.3	0.85
N100	Standard	-2.56	100.6	-1.27
P200	Standard	3.40	200.0	3.23
N200	Target	n/a	n/a	3.60
P3b	Target	1.47	418.3	-0.18
SW	Target	-3.56	506.0	-1.33
P3a	Distractor	3.35	310.9	1.05



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04/06/1945

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EEG

<i>Feature</i>	<i>Peak Frequency</i>	<i>Power</i>
Peak Alpha	10.13	19.1

P3	Pz	P4
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