

**Doctor:** Arelovich, Ariel  
**Evaluator:** Arelovich, Ariel  
**Date:** 2021-07-08

**Patient:** Fernandez, Emi  
**Age:** 10

## EEVALUATION: GO/NO GO TEST

### PROCESSING SPEED

Normal value below 1.88



1.66

### PROCESSING SPEED INTERFERENCE

Normal value below 1.83



147.94

### PROCESSING SPEED FACILITATED

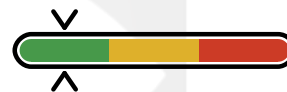
Normal value below 1.75



113.02

### REACTION TIME FACILITATED

Normal value below 784



468

### REACTION TIME INTERFERENCE

Normal value below 829



510

### EXECUTIVE FUNCTIONS

Normal value below 320



500

### INHIBITORY ALTERATIONS FACILITATED

Normal value below 0.15



0.00


### INHIBITORY ALTERATIONS INTERFERENCE

Normal value below 0.31



0.00

For each cognitive function analyzed, the results are indicated by the following color coding:

 Severe impairment  
and/or pathological

 No relevant problems  
were encountered

 Mild impairment, not  
necessarily pathological

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## COGNITIVE PERFORMANCE AND RELATED BRAIN AREAS

### Preserved Cognitive Functions & Brain Areas:

- Processing Speed: Frontal Lobe
- Reaction Time Facilitated: Medial Prefrontal Cortex (mPFC), Subthalamic Nucleus
- Reaction Time Interference: Medial Prefrontal Cortex (mPFC), Anterior, Posterior
- Inhibitory Alterations Facilitated: Right Inferior Frontal Gyrus (rIFG)
- Inhibitory Alterations Interference: Caudal Inferior Frontal Gyrus (cIFG)

### Mildly Impaired Cognitive Functions & Brain Areas:

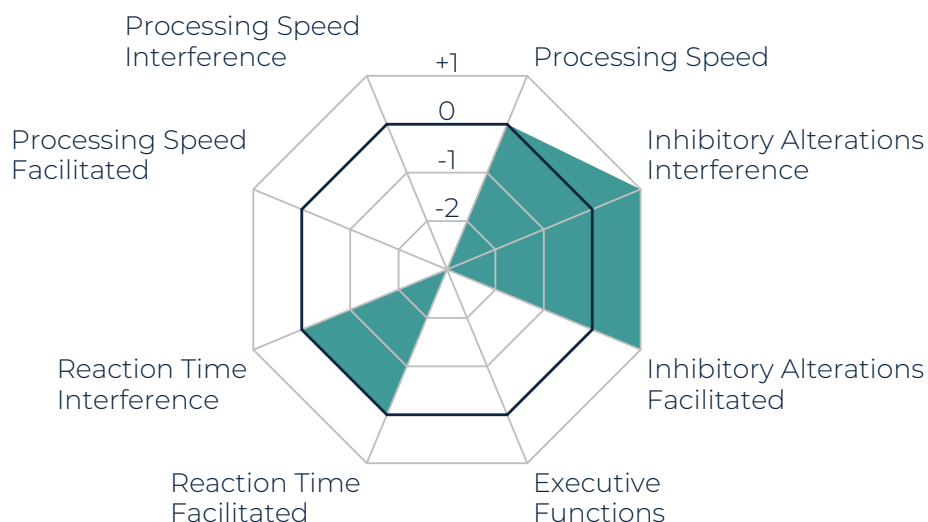
- N/A

### Severely Impaired and/ or Pathological Cognitive Functions & Brain Areas:

- Processing Speed Interference: prefrontal cortex, caudate nucleus
- Processing Speed Facilitated: Prefrontal Cortex
- Executive Functions: Prefrontal Cortex

## OVERALL PERFORMANCE

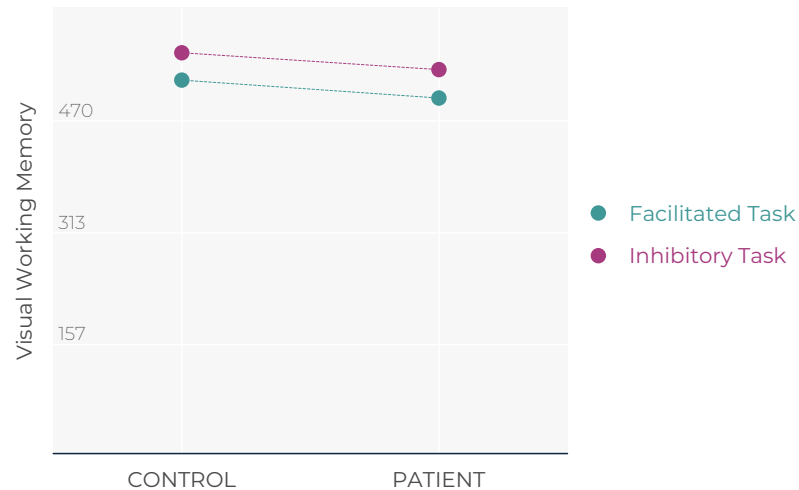
The following graph displays the general cognitive performance of the patient. For more information on how to interpret this graph, please refer to the Annex – Overall Performance Graph Interpretation.



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## VISUAL WORKING MEMORY



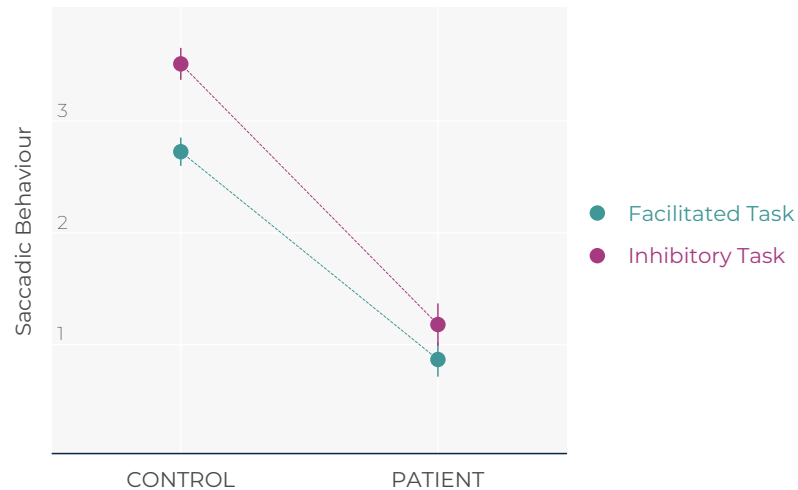
The Visual Working Memory graph displays the average amount of time [ms] needed by the patient to extract information from an image during a trial, in both Encoding and Recognition stages. For more information on how to interpret this graph, please refer to the ANNEX – Visual Working Memory Graph Interpretation.

## STUDY DURATION

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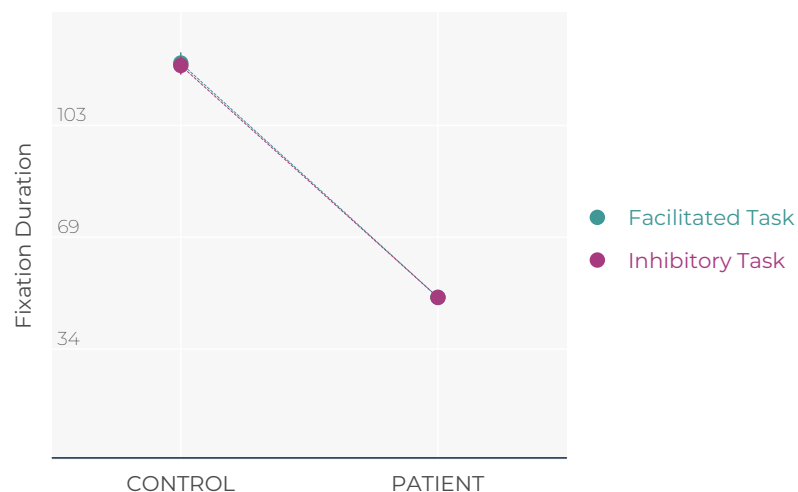
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## SACCADIC BEHAVIOR



The Saccadic Behavior graph displays the visual scanning capabilities while looking for targets, in both Encoding and Recognition stages. For more information on how to interpret this graph, please refer to the ANNEX – Saccadic Behaviour Graph Interpretation.

## FIXATION DURATION



The Fixation Duration graph displays the time for extracting relevant information in just once fixation, in both Encoding and Recognition stages. For more information on how to interpret this graph, please refer to the ANNEX – Gaze Duration Graph Interpretation.

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## FIXATION PLOTTING

The following graphs contain the plotting of the fixations done by the patient (left column) and by a cognitively healthy control (right column) while completing the different tasks. Tasks with a green arrow are referred as facilitated task and red arrows as tasks with interference.

