

**Doctor:** Gerardo Fernandez  
**Evaluator:** Matías Shulz  
**Date:** 29 of January 2021

**Patient:** Jason Garmin  
**Age:** 61

## EVALUATION: GO/NO GO TEST

### PROCESSING SPEED

Normal value under 188



195

### PROCESSING SPEED INTERFERENCE

Normal value under 83



85

### PROCESSING SPEED FACILITATED

Normal value under 75



78

### REACTION TIME FACILITATED

Normal value over 58



61

### REACTION TIME INTERFERENCE

Normal value over 60



73

### EXECUTIVE FUNCTIONS

Normal value under 2,301



81

### INDEX ERROR FACILITATED

Normal value under 31



78

### INDEX ERROR INTERFERENCE

Normal value under 2,405



84

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

- Functioning above average
- No relevant problems were encountered
- Mild impairment, no necessarily pathological
- Severe impairment, and/ or pathological

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## COGNITIVE PERFORMANCE AND RELATED BRAIN AREAS

### Preserved Cognitive Functions & Brain Areas:

- Processing Speed: Frontal Lobe
- Processing Speed Interference: prefrontal cortex, caudate nucleus
- Processing Speed Facilitated: Prefrontal Cortex
- Index Error Interference: Caudal Inferior Frontal Gyrus (cIFG)
- Index Error Facilitated: Right Inferior Frontal Gyrus (rIFG)
- Reaction Time Facilitated: Medial Prefrontal Cortex (mPFC), Subthalamic Nucleus
- Reaction Time Interference: Medial Prefrontal Cortex (mPFC), Anterior, Posterior Cingulate Cortex
- Executive Functions: Prefrontal Cortex

### Mildly Impaired Cognitive Functions & Brain Areas:

- N/A

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

- N/A

#### Presumptive Diagnosis

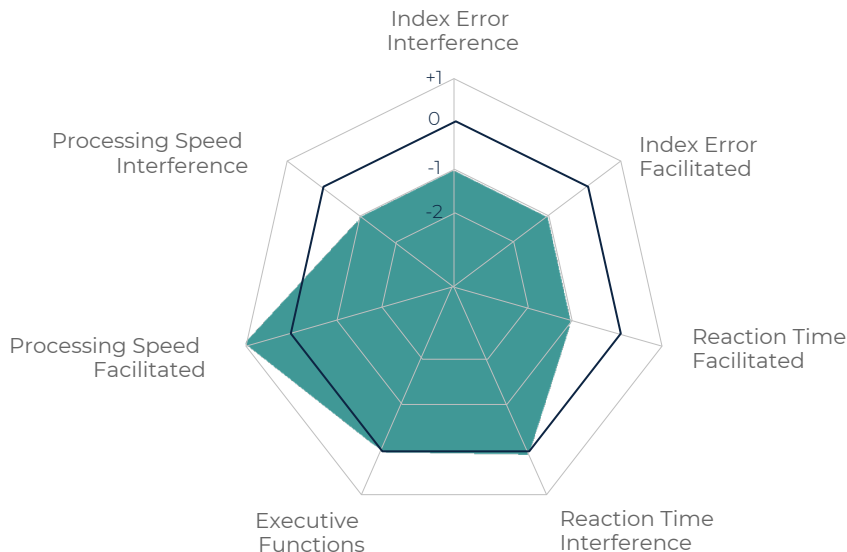
Generalized cognitive and brain alteration. We recommend repeating the Colors Test with 2 targets.

#### A.I. Performance Index

**74%**

## OVERALL PERFORMANCE

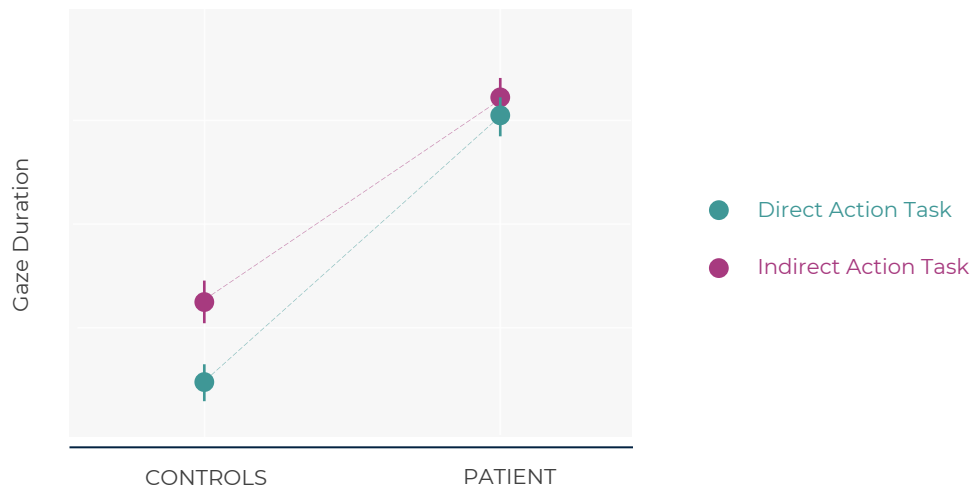
The following graph displays the general cognitive performance of the patient. For more information on how to interpret this graph, please refer to the Annex – Overall Performance Graph Interpretation.



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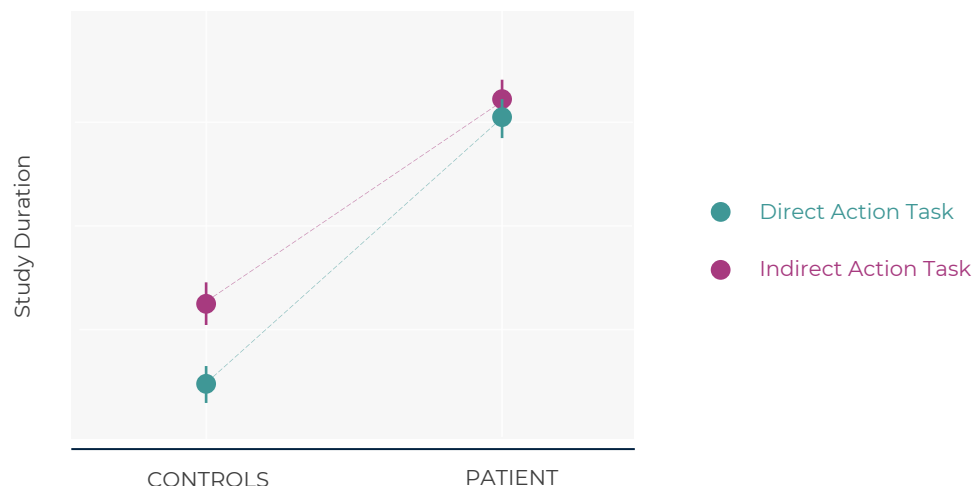
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## GAZE DURATION



The Gaze Duration 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 – Gaze Duration Graph Interpretation.

## STUDY DURATION

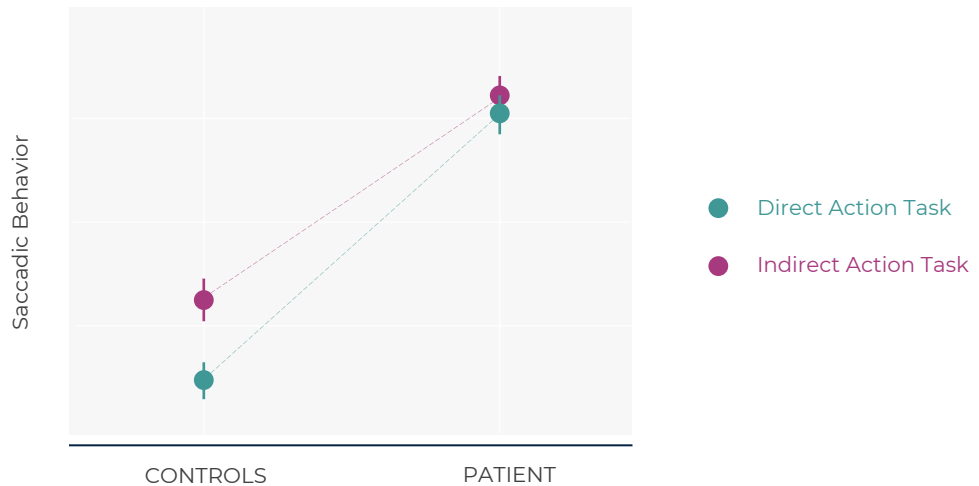


The Study Duration graph displays the average amount of time [ms] needed by the patient to complete the whole study, in both Encoding and Recognition stages. For more information on how to interpret this graph, please refer to the ANNEX – Gaze Duration Graph Interpretation.

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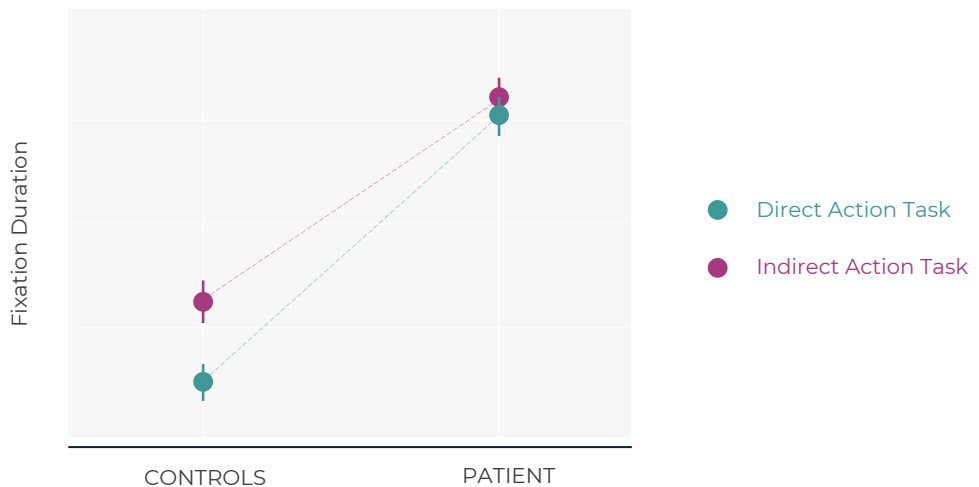
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## SACCADIC BEHAVIOR



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 – Gaze Duration Graph Interpretation.

## FIXATION DURATION



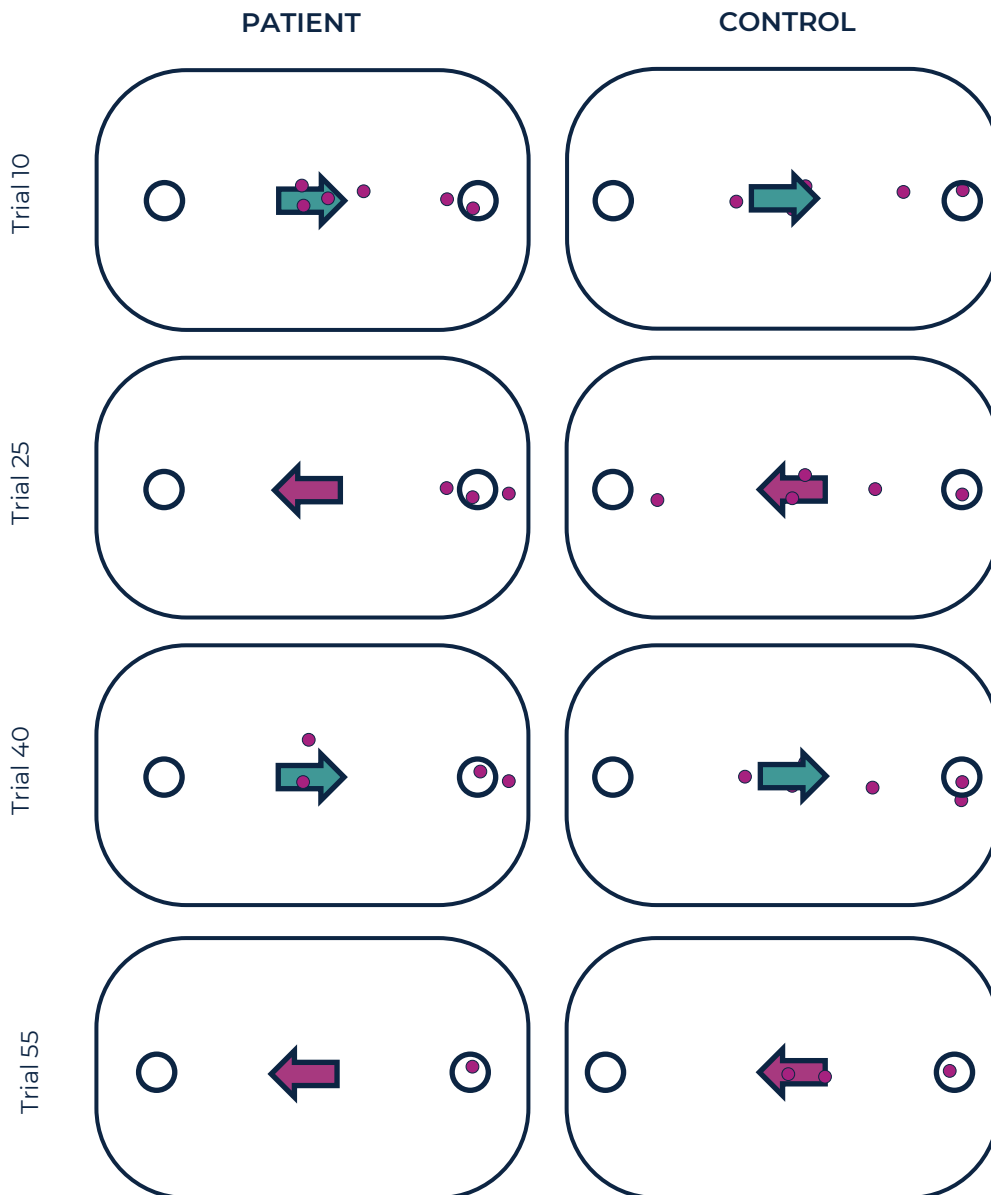
The Saccadic Behavior graph displays the time for extracting relevant information in just once fixation, in both Encoding and Recognition stages. For more information on how to interpret this graph, please refer to the ANNEX – Gaze Duration Graph Interpretation.

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## FIXATIONS 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.



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## ANNEX

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### VARIABLE DEFINITIONS

- Processing Speed: time to complete the whole study [minutes]
- Processing Speed Interference: time to complete all the trials involving only a red arrow [seconds]
- Processing Speed Facilitated: time to complete all the trials involving only a green arrow [seconds]
- Reaction Time Facilitated: average time to complete each trial involving a green arrow [milliseconds]
- Reaction Time Interference: average time to complete each trial involving a red arrow [milliseconds]
- Index Error Facilitated: percentage of incorrect answers in trials involving a green arrow [%]
- Index Error Interference: percentage of incorrect answers in trials involving a red arrow [%]
- Executive Functions: number of ocular fixations required for successfully completing the study [n]