

# RightEye Brain Health EyeQ™

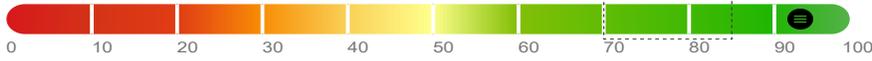


NAME : Jacob Lewallen      AGE: 26 yrs 10 months      DOB: 01/1994      DATE OF TESTING: 11/24/2020 04:22 PM

**My EyeQ: 93**

DYSFUNCTIONAL

FUNCTIONAL      EXCEPTIONAL



### Analysis

- Eyes: Not optimal for focus on a still object
- Affected Brain Areas: Brain Stem

### Symptoms / Risks

- Motion Sensitivity, Disorientation
- Nervousness, Anxiousness
- Sleep Disturbances, Fatigue
- Falling, Impaired Hand-Eye Coordination

EYEQ TRAINER ASSIGNED Get Started!

### Pursuits

My Score : **92**      Percentile: **99**

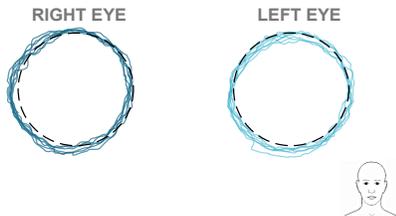
### Saccades

My Score : **70**      Percentile: **89**

### Fixations

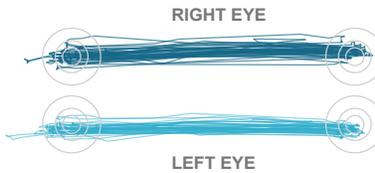
My Score : **72**      Percentile: **74**

### Circular Tracking



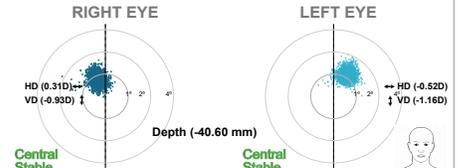
| Right Eye                | Left Eye                 |
|--------------------------|--------------------------|
| SP % : <b>94.60</b>      | SP % : <b>94.25</b>      |
| Efficiency : <b>9.24</b> | Efficiency: <b>11.21</b> |

### Horizontal Speed & Targeting



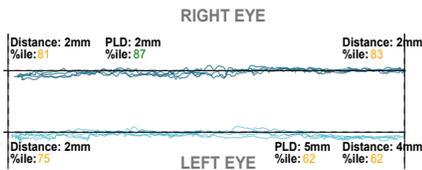
| Right Eye                  | Left Eye                   |
|----------------------------|----------------------------|
| TA (mm) : <b>9.14</b>      | TA (mm) : <b>9.31</b>      |
| SPEED (d/s) : <b>95.60</b> | SPEED (d/s) : <b>96.57</b> |

### Fixation Stability



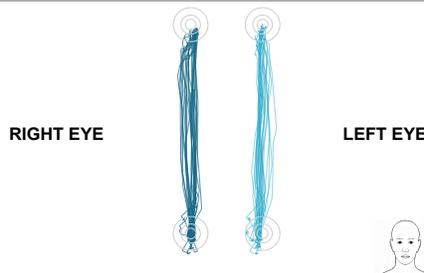
| Right Eye                     | Left Eye                      |
|-------------------------------|-------------------------------|
| ≤ 2° : <b>99.94%</b>          | ≤ 2° : <b>98.94%</b>          |
| > 4° : <b>0.00%</b>           | > 4° : <b>0.00%</b>           |
| Dispersion (mm) : <b>5.99</b> | Dispersion (mm) : <b>7.75</b> |

### Horizontal Tracking



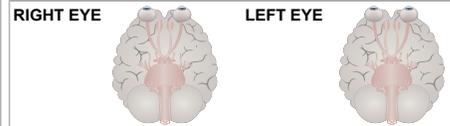
| Right Eye                | Left Eye                |
|--------------------------|-------------------------|
| SP % : <b>93.89</b>      | SP % : <b>91.24</b>     |
| Efficiency : <b>5.88</b> | Efficiency: <b>6.26</b> |

### Vertical Speed & Targeting



| Right Eye                  | Left Eye                   |
|----------------------------|----------------------------|
| TA (mm) : <b>10.50</b>     | TA (mm) : <b>10.56</b>     |
| SPEED (d/s) : <b>58.18</b> | SPEED (d/s) : <b>58.98</b> |

### Nerves (Inferior View)



Nerves in red indicate dysfunction

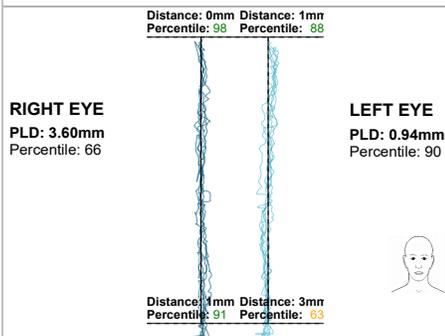
**Analysis**

- Working Optimally
- Please check back in 6-12 months for re-assessment of nerve status

**Symptoms / Risks**

- None

### Vertical Tracking



**RIGHT EYE**  
PLD: **3.60mm**  
Percentile: **66**

**LEFT EYE**  
PLD: **0.94mm**  
Percentile: **90**

### Eye-Hand Reaction Time

Age: 17 - 28 Group Avg. (Accuracy 88%)

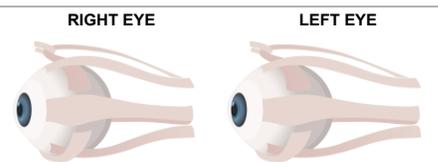
|       |       |       |                                |
|-------|-------|-------|--------------------------------|
| 296ms | 288ms | 502ms | = Reaction Time: <b>1081ms</b> |
| SL    | VS    | PS    |                                |

**My Score: (Accuracy 62%)**

|       |       |       |                               |
|-------|-------|-------|-------------------------------|
| 259ms | 272ms | 325ms | = Reaction Time: <b>856ms</b> |
| SL    | VS    | PS    |                               |

SL = Saccadic Latency    VS = Visual Speed    PS = Brain Processing Speed

### Muscles (Translational View)



Muscles in red indicate dysfunction

**Analysis**

- Eyes: Optimally working
- Please check back in 6-12 months for re-assessment of ocular muscle status.

**Symptoms / Risks**

- None

### Disclaimer

The Brain Health EyeQ test is not a substitute for a comprehensive eye exam.

The information in this report is for general educational purpose only. Information you read in this report is provided for comparative purposes, does not constitute a diagnosis of any kind and cannot replace the relation that you have with your healthcare professional. We do not practice medicine or provide medicinal services or advice as a part of this report. You should always talk to your healthcare professional for diagnosis and treatment.

**Your average distance from the screen was 57 cm (56 - 59 cm) recommended distance is 55-60 cm.**

### Guidelines

Brain Health EyeQ is designed to provide an assessment of brain health and visual function as reflected by oculomotor behavior. For a more in-depth analysis of Brain Health EyeQ got to [www.righteye.com](http://www.righteye.com) (<https://www.righteye.com>)

- **Dysfunctional to Functional to Exceptional Scale:** this shows your results on a scale from dysfunctional to exceptional. It reflects where the patient falls compared to the population. Each contributing metric is weighted to result in an overall probability of normality.
- **My Score:** refers to your score on a metric. Scores are given in different values such as millimeters, degrees etc. Your score is then used to determine what percentile you fall in.
- **Fixations:** refers to all metrics related to the stopping point (fixation) of the eye.
- **Pursuits:** refers to all metrics related to the movement of the eye in relation to an object (smooth pursuit).
- **Saccades:** refers to all metrics related to the quick movement of the eye to relocate foveal vision (saccade).
- **Percentiles (%ile):** show where you stand compared to others. 50th percentile means you scored better than 50 out of every 100 people. A higher percentile is better.
- **Smooth Pursuit (SP%):** are eyes movements that follow the target within a velocity range of the target and are reported as a percentage of the test time. Higher is better.
- **Efficiency (millimeters):** refers to the error in the users' gaze is from the ideal pathway. Lower is better.
- **Target Accuracy (TA, millimeters):** refers to the distance each "hit" or fixation was compared to the ideal target. Lower is better.
- **Speed (degree/second):** refers to the average velocity made by the saccades across the test time. Higher is better.
- **Pathway Length Differences (PLD, millimeters):** refers to the average difference in distance between the right and left eye gaze pathways. Ideal score is zero. Lower is better.
- **Distance (millimeters):** refers to the average distance the gaze pathway is from the ideal pathway. Lower is better.
- **HD (Horizontal Displacement D: diopters):** horizontal deviation between the gaze and center of the screen. Close to zero is best.
- **VD (Vertical Displacement D: diopters):** vertical deviation between the gaze and center of the screen. Close to zero is best.
- **Saccadic Latency (ms):** refers to the time between when the stimuli appear, and the eye first leaves the center of Solar System. Lower is better.
- **Visual Speed (ms):** the average time difference between when the arrow begins shooting from the solar system to when the eye hits the target (e.g.: alien). Lower is better.
- **Processing Speed (ms):** the average difference between when the eye hits the target (e.g.: alien) and the button is pressed. Lower is better.
- **Reaction Time (ms):** the average time difference between when the arrow begins shooting from the solar system and the button is pressed. Lower is better.
- **Color coding for all 'Eye-Hand Reaction Time' metrics:** Green = Functional, Orange = Mildly Dysfunctional, Red = Dysfunctional
- **Accuracy:** It is the tally of the correct responses, divided by the number of trials. Represented as percentage of correct responses. Higher is better.
- **Fixation Dispersion (mm):** distance between each gaze point and target stimuli, averaged over the entire test for all gaze points
- **Fixation Location:** the ability to keep your eyes from shifting over time for right, left or both eyes. Central (>50% of fixation points on the central 2 degrees), Poor Central (<50% but >25% within 2 degrees), Eccentric (<25% within 2 degrees).
- **Fixation Stability:** Stable (>75% within 2 degrees), Relatively Stable (<75% within 2 degrees BUT >75% in 4 degrees), Unstable (<75% in 4 degrees).