

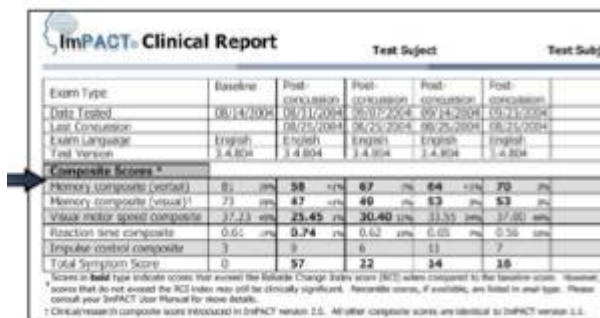
Understanding the ImPACT Report

What Areas Does the ImPACT Test For?

In each column of the report, you'll see scores for six areas. The first five are Composite Scores that measure:

- Verbal Memory
- Visual Memory
- Visual Motor Speed
- Reaction Time
- Impulse Control

The last score, **Total Symptom Score**, represents your total out of all 22 symptom descriptors.



Exam Type	Baseline	Post-concussion 1	Post-concussion 2	Post-concussion 3	Post-concussion 4
Date Tested	08/14/2004	08/11/2004	08/07/2004	08/14/2004	08/11/2004
Last Concussion		08/25/2004	08/25/2004	08/25/2004	08/21/2004
Exam Language	English	English	English	English	English
Test Version	3.4.804	3.4.804	3.4.804	3.4.804	3.4.804
Composite Scores *					
Memory composite (verbal)	81 ... %	88 ... %	87 ... %	84 ... %	70 ... %
Memory composite (visual)	73 ... %	87 ... %	89 ... %	83 ... %	83 ... %
Visual motor speed composite	37.23 ... %	35.45 ... %	30.40 ... %	31.55 ... %	37.80 ... %
Reaction time composite	0.66 ... %	0.74 ... %	0.63 ... %	0.63 ... %	0.58 ... %
Impulse control composite	3	3	6	11	7
Total Symptom Score	0	57	22	34	18

* Scores in **bold** type indicate scores that exceed the Reliable Change Index (RCI) when compared to the baseline score. Scores that do not exceed the RCI index may still be clinically significant. Favorable scores, if available, are listed in **bold** type. Please consult your ImPACT User Manual for more details.
† Clinical research composite scores introduced in ImPACT version 3.6. All other composite scores are identical to ImPACT version 3.5.

What Do the Numbers in the Columns Represent?

In the first four rows under **Composite Scores**, each column contains two numbers:

1. Your raw score
2. A percentage indicating how your score compares to other people who are the same age and gender as you

In the **Baseline** column:

For most children who:

Get As and Bs in school

Get Bs and Cs in school

We expect the second number to be:

65 to 75% or higher

30 to 40% or higher

Get Ds and Fs in school 20% or higher

Have a diagnosed learning disability 20% or higher

Detailed Raw Data

Word Memory

Hits (Immediate)

Correct Distracters (Immediate)

Learning Percent Correct

Hits (Delay)

Correct Distracter (Delay)

Delayed Memory Percent Correct

Total Percent Correct

Design Memory

Hits (Immediate)

Correct Distracters (Immediate)

Learning Percent Correct

Hits (Delay)

Correct Distracter (Delay)

Delayed Memory Percent Correct

Total Percent Correct

X's & O's

Total Correct (Memory)

Total Correct (Interference)

Average Correct RT (Interference)

Total Incorrect RT (Interference)

Average Incorrect RT (Interference)

Symbol Match

Total Correct (Visible)

Average Correct RT (Visible)

Total Correct (Hidden)

Average Correct RT (Hidden)

Color Match

Total Correct

Average Correct RT

Total Commissions

Average Commissions RT

Three Letters Test

Total Sequence Correct

Total Letters Correct

Percent of Total Letters Correct

Average Time to 1st Click

Average Counted

Average Counted Correctly

How Are My Scores Calculated?

The five composite scores are calculated from the raw data from your performance on the various activities of the ImPACT computer test:

- Word Memory
- Design Memory
- X's & O's
- Color Match
- Three Letters Test

Each Composite Score Is Calculated as Follows:

The Verbal Memory Composite score (as percent correct) is comprised of the **average** of the following scores:

- Word Memory: Total percent correct
- Symbol Match: Total correct (hidden)
- Three Letters: Percent of total letters correct

The Visual Memory Composite score (as percent correct) is comprised of the **average** of the following scores:

- Design Memory: Total percent correct
- X's and O's: Total correct (Memory) $\div 12$, then multiply by 100

The Visual Motor Speed Composite (Processing Speed) score is comprised of the **average** of the following scores:

- X's and O's: Total correct (Interference) $\div 4$
- Three Letters: Average counted correctly $\times 3$

The Reaction Time Composite score (in seconds) is comprised of the **average** of the following scores:

- X's and O's: Average correct RT (interference)
- Symbol Match: Average correct RT (visible) $\div 3$
- Color Match: Average correct RT

The Impulse Control Composite score is comprised of the **total** of the following scores:

- X's and O's: Total incorrect (Interference)
- Color Match: Total commissions

How Do I Know If My Performance Is Getting Better or Not?

A better performance on each composite test is indicated by:

- A **higher** score for:
 - ☐ Verbal Memory
 - ☐ Visual Memory
 - ☐ Visual Motor Speed
- A **lower** score for:

- ☐ Reaction Time
- ☐ Impulse Control
- ☐ Total Symptom Score (indicates that you endorsed fewer symptoms)

[Make An Appointment](#) [651-290-8707](#) [Refer a Patient](#) [651-325-2200](#)

This information is for educational purposes only. It is not intended to replace the advice of your health care providers. If you have any questions, talk with your doctor or others on your health care team.

If you are a Gillette patient with urgent questions or concerns, please contact Telehealth Nursing at [651-229-3890](#).