



MOTION TRACKING SYSTEM



## What is the Quotient<sup>TM</sup> ADHD System?

### A revolutionary approach to measuring ADHD.

- 15- to 20-minute test that challenges the patient to inhibit motor activity and control impulsivity, while maintaining focus on changing visual stimuli.
- Unique motion tracking system monitors movement in small and clinically measurable ways.
- Translates the 3 core symptom areas of ADHD into quantifiable measures.
- Provides an easy to read patient report in real time – right in your office.

## Measuring the neurological deficits of ADHD.

### Every time you need an objective measure of your patient's ADHD status, use the Quotient<sup>TM</sup> ADHD System.

- Every patient's Quotient<sup>TM</sup> ADHD System report presents a personalized and objective measure of the 3 core symptom areas:
  - Inattention
  - Hyperactivity
  - Impulsivity
- The Quotient<sup>TM</sup> ADHD System allows you to accurately measure and quantify those deficits that lead to clinical symptoms.

## How is the Quotient<sup>TM</sup> ADHD System different?

### Powered by the Behavior Pathology<sup>TM</sup> Database.

- Test responses are analyzed and compared to a reference database of more than 2,000 children and adolescents.
- Proven to be highly sensitive and specific to ADHD.
  - 88.9% accurate in recognizing ADHD.<sup>1</sup>
  - Test-Retest reliability is greater than 90%.
- Helps compensate for the subjectivity and inaccuracy of third-party reporting.
- Provides a quantitative and objective evaluation of the pattern deficits consistent with ADHD.
- Is the only ADHD diagnostic test to quantitatively measure movement.

\*FDA clearance of this product does not in any way denote official approval of this device.

1. Teicher MH, Ito Y, Glod CA, Barber NJ. Objective measurement of hyperactivity and attentional problems in ADHD. *J Am Acad Child Adolesc Psych.* 1996;35:334-342.

# Easy to administer. Easy to interpret.

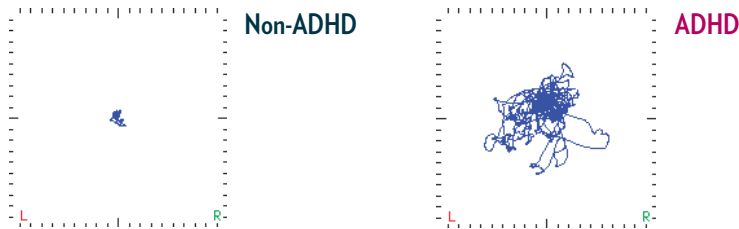


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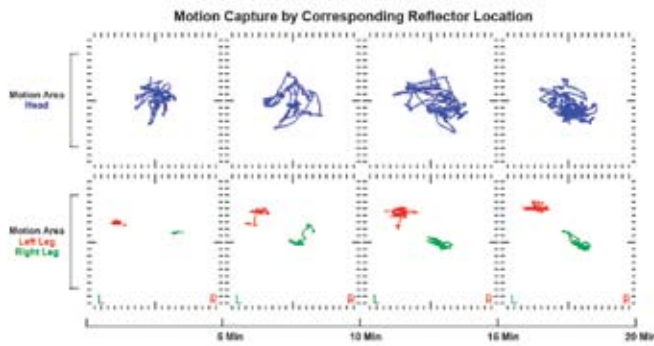
Biobehavioral Diagnostics Company

- Uses simple illustrations to clearly reveal the patient's performance.
- Provides summary text to explain what is being measured.



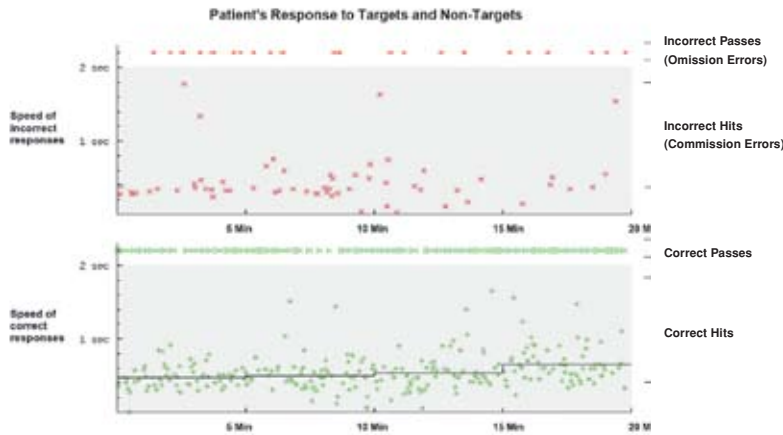
## MEASURING MOTION IS KEY

Example of a movement comparison of a non-ADHD child to an ADHD child using the Quotient™ ADHD System report.



## MOTION RESULTS

Motion captured by the corresponding reflector location and represented pictorially in image boxes. Each box represents a 5-minute segment. Motion analysis is based on the measure of microevents. A microevent is every consecutive movement equal to or greater than 1 mm detected by the infrared Motion Tracking System.



## INDIVIDUAL RESPONSE PATTERN

Patient's response to targets and non-targets. Attentiveness is measured through the accuracy and consistency of response to targets (8-pointed stars) and non-targets (5-pointed stars), which appear at random screen positions for 200 milliseconds. Green symbols indicate correct responses, red symbols indicate incorrect responses. "+" symbol denotes eight-pointed stars (targets); "x" symbol denotes five-pointed stars (non-targets).

## ATTENTION STATES

During the course of a test, a patient exhibits different states of responding to both targets and non-targets. The quality of this engagement in the task is measured in 30-second intervals. By objectively measuring this engagement every 30 seconds, a dynamic picture of attention states and shifts in attention states emerges. Level of engagement is pictorially represented in colored blocks, green for attentive or on-task, yellow for impulsive, red for distracted, and blue for sub-optimal engagement. With a quick glance it is easy to determine whether there were many shifts in attention states or whether the patient remained attentive throughout the test.

