

Success to me is...

...finishing
my homework
after
soccer
practice.

— Kate, age 12

Quotient[®] ADHD test

Use objective data to help inform treatment decisions and help your patient reach her goal.

- Use the Quotient[®] ADHD Test at the initial visit to quantify the severity of deficits related to hyperactivity, impulsivity and inattention. Objective evidence streamlines the conversation with parents and patients.
- Re-assess new patients in 3-6 weeks to evaluate progress toward goals and to help guide treatment planning.
- Test established patients periodically at med check visits. The Quotient[®] ADHD Test supplements clinical information.



The Quotient[®] ADHD Test takes 15 minutes for kids under 13, or 20 minutes for adolescents and adults.



The Quotient[®] ADHD Test is covered by most insurance companies using existing CPT[®] codes.



BioBDx

877.246.2397
www.BioBDx.com

Baseline Assessment

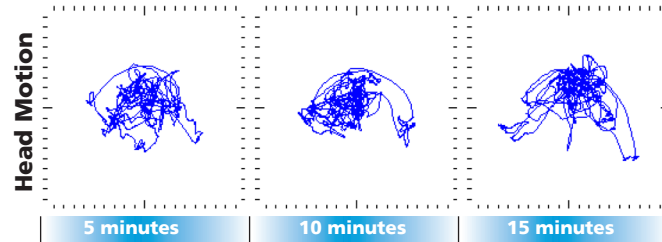
Kate, age 12. No medication.

Post-Medication Assessment

20 mg methylphenidate.

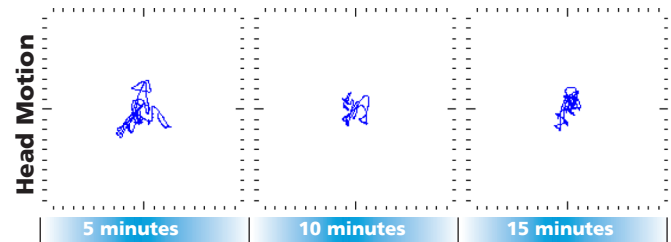
Motion Analysis

The graphical display reflects significant area. Quantitative data tables in the report match 6 motion metrics against age- and gender-matched subjects.



	Baseline		
	Ref. Range	Results	%ile
Immobility Duration	103-331 ms	68 ms	3 ^l
Movements	916-2859	4445	3 ^l
Displacement	1.21-4.13 m	8.7 m	3 ^l
Area	24-104 cm ²	384 cm ²	1 ^l
Spatial Complexity	1.099-1.320	1.042	1 ^l
Temporal Scaling	0.345-0.771	0.825	12 ^l

The area of motion is reduced compared to the baseline test.



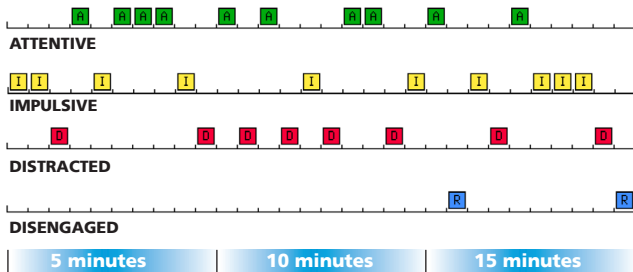
	Test #2	
	Results	%ile
Immobility Duration	357 ms	86
Movements	892	84
Displacement	1.41 m	76
Area	72 cm ²	31
Spatial Complexity	1.160	41
Temporal Scaling	0.117	98

Download Kate's full case study and other case studies from BioBdx.com.

Attention State Summary

The chart shows 23 attention shifts and a pattern that is consistent with ADHD. For the first 60 seconds, Kate showed impulsive behavior, followed by 30 seconds of distraction, followed by 30 seconds on task, and so on.

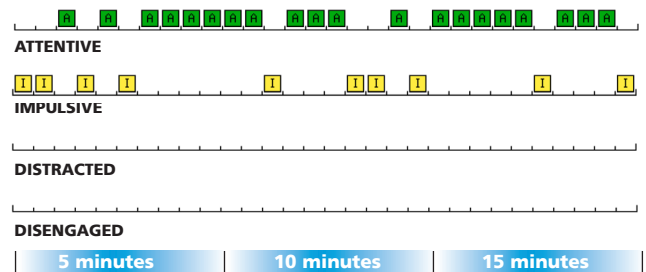
Attention State Analysis for 30 Second Segments



	Baseline		
	Ref. Range	Results	%ile
# Shifts	4-18	23	5 ^l
Attentive	33.3-93.3%	33.3%	16 ^l
Impulsive	5.0-46.7%	33.3%	34
Distracted	0-13.3%	26.7%	5 ^l
Disengaged			
Randon	0-3.3%	3.3%	25
Minimal	0-0%	3.3%	10 ^l
Contrary	0-0%	0.0%	99

Kate's attention improved compared to the baseline test. Distracted and disengaged states were eliminated. She improved from 23 attention shifts to 14. She improved on task performance, but impulsive behavior remained the same.

Attention State Analysis for 30 Second Segments



	Test #2	
	Results	%ile
# Shifts	14	41
Attentive	66.7%	43
Impulsive	33.3%	34
Distracted	0.0%	99
Disengaged		
Randon	0.0%	99
Minimal	0.0%	99
Contrary	0.0%	99

Selected Peer-reviewed Publications

- Does Placebo Response Differ Between Objective and Subjective ADHD Measures in Children with Attention-Deficit/Hyperactivity Disorder? Sumner, CR, Sutton, VS, Teicher, MH and Newcorn, JH. *Postgraduate Medicine*. 2010 122(5), 52-61.
- Utility of Objective Measures of Activity and Attention in the Assessment of Therapeutic Response to Stimulants in Children with ADHD. MH Teicher, et al. *Journal of Child and Adolescent Psychopharmacology*. 2008 18(3) 265-270.
- Is OPTAx™ Useful for Monitoring the Effect of Stimulants on Hyperactivity and Inattention? Janne Tabori-Kraft, et al. *Eur Child Adolesc Psychiatry*. 2007 May 571-574.
- Objective Measurement of Hyperactivity, Impulsivity, and Inattention in Children with Hyperkinetic Disorders Before and After Treatment with Methylphenidate, *European Child & Adolescent Psychiatry*. P. Heiser, et al. 2004 13 100-104.
- Novel Strategy for the Analysis of CPT Data Provides New Insight into the Effects of Methylphenidate on Attentional States in Children with ADHD. MH Teicher, et al. *Journal of Child and Adolescent Psychopharmacology*. 2004 14(2) 219-232.
- Objective Measurement of Hyperactivity and Attentional Problems in ADHD MH Teicher, et al. *J. Am. Acad. Child Adolesc. Psychiatry*, 1996 35(3) 334-342.
- Rate Dependency Revisited: Understanding the Effects of Methylphenidate in Children with Attention Deficit Hyperactivity Disorder. MH Teicher, et al. *Journal of Child And Adolescent Psychopharmacology*. 2003 13(1) 41-51.
- Methylphenidate Blood Levels and Therapeutic Response in Children with ADHD: Effects of Different Dosing Regimens. MH Teicher, et al. *Journal of Child and Adolescent Psychopharmacology*. 2006 16(4) 416-431.