Wilton | Logic

List of Interactive Tests

Test	Concept Addressed	Key Measure	Approx Duration
Basic Performance Screening			
Touch Screen Training	Familiarization with equipment		2 min
Flexible Rule Application	Rule following	Errors	4 min
Digit Symbol Substitution	Speed of Cognitive Processing	Number of Substitutions completed in 90s	2 min
Trails A/B	Cognitive Flexibility	Completion time difference B-A	2 min
Visual Analog Scales	Current Psychological state	Scale Distance	not fixed
Questionnaires			
Health Resource Inventory	Personality – class and social Behavior	5 personality factors	5 min
Swedish University Scales of Personality	Personality – affective state and behaviors	13 personality factors	8 min
Five Factor Personality Inventory	Personality – general Characteristics	5 personality factors	5 min
Barrett Impulsiveness Scales	Personality - impulsiveness	3 impulsiveness factors	5 min
Adult Self-Report Scale	Attention-Deficit Hyperactivity Disorder	2 symptom dimensions	2 min
Impulsive Behavior			
Stop Signal Task	Response Inhibition, "motor impulsivity"	Reaction Time and Stopping Time	5 min
Switch Signal Task	Response redirection	Reaction Time and Switching Time	5 min
Uncertain Visual Discrimination	"Reaction Impulsivity"	Reaction Time	5 min
Variable Consecutive Number	Ability to link together individual acts into a chain	Mean Response Chain Length	8 min
Delay of Reward	Sensitivity to delayed rewards/instant gratification	Percent choice of delayed large reward	20 min

Test	Concept Addressed	Key Measure	Approx Duration
Executive Function			
Balloon Analog Risk Test	Risk Taking	Mean number of responses before taking reward	7 min
Block Stacking Task	Risk taking	Mean number of responses before taking reward	In development
Discrete Trial N-back	Working Memory 1-back 2-back 3-back	Percentage correct	12 min
Top-Down Attentional Processing	Top-down attentional Processing	Reaction times	4 min
Reinforcement Learning Task	Rule learning with uncertain information	Errors to criterion	4 min
Sequence Learning Task	Rule learning	Errors to criterion	6 min
Task Shifting Procedure	Redirection of executive resources	Reaction times	In development
Block Arrangement Task	Planning	Completion times	In development

Technical Information

- The tests are designed to run on a standard off-the-shelf HP Pavilion tx2500z or TouchSmart tx2z [note 1] touch screen notebook computer with a 12.1" (diagonal) high-definition touch screen, which twists for easy viewing of the tests by the participant.

- Tests are installed on each computer as .exe files.

- Tests can be packaged into a battery specific for the client.

- Data is stored in ASCII files for easy reading into MS Excel or statistical analysis programs. WiltonLogic plans to implement provision for encryption in 2009.

For more information, please contact

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Note 1: Computer model current as of Dec 2008, subject to availability and introduction of new models by Hewlett-Packard