

IVA-AE2 Sensory Modality Report - Extended Test

Name: Case, Sample

Age: 21 Sex: F Report Date: 8/25/2015 Test Date: 8/16/2015 09:22 AM On Meds: N

Comment:

The purpose of the Sensory Modality report is to help the examiner review an individual's auditory processing on this test in comparison to her visual. Consequently, this report focuses on identifying and interpreting the significant differences found between all of the IVA-AE2 auditory and visual quotient scale scores. This report can help guide clinicians in better understanding the strengths and weaknesses of the persons they are evaluating in order to determine the appropriate interventions and accommodations for them.

The auditory and visual modalities were both found to be valid for this IVA-AE2 administration. This enables the auditory and visual scale scores to be compared for any differences in performance between the two sensory modalities. First, the significant differences for the Attention, Response Control, and Sustained Attention Quotient global scales and their primary scale scores are reviewed. Next, the global scales titled Mental Concentration, Self-Control, Presence, Resilience, Agility, and Accuracy are discussed, along with their component primary scales. Finally, the global scales of Competence and Maintainability along with their primary scales are examined for sensory modality differences. The identification of significant differences is based on the following labels used to designate significant quotient point differences: Slight (8-10), Mild (11-18), Moderate (19-27), and Major (28+). This report will focus on discussing only the significant differences found.

IVA-AE2 ATTENTION GLOBAL SCORES

The **Attention** scale provides a comprehensive measure of an individual's overall ability to make accurate responses, stay focused and sustain attention. This global scale's factors include the ability to be attentive and accurately respond under low demand conditions, remain focused and stay reliably 'on task,' and, at the same time, respond quickly when appropriate. The **Attention** scale is based on a combination of the visual and auditory Vigilance, Focus, and Speed scales. A significant difference was found between the auditory and visual Attention global quotient scores. This difference was mild. She was found to be able to better pay attention to targets in the auditory modality. **Vigilance** is a measure of inattention as evidenced by two different types of errors of omission. The auditory and visual Vigilance primary scales showed that this individual made fewer errors of omission in response to auditory targets. This significant difference was a moderate one. **Speed** reflects the average reaction time for all correct responses throughout the test and helps to identify attention problems related to slow discriminatory mental processing. Her average reaction time showed a slight difference between the two modalities with faster responses in the auditory modality.

IVA-AE2 RESPONSE CONTROL

The **Response Control** Quotient is a global measure of the overall ability to regulate responses and respond appropriately. Factors that load on this scale include the ability to inhibit responses to non-targets, the consistency of recognition reaction times and the person's ability to maintain mental processing speed during the test. **Response Control** is

based on a combination of the auditory and visual Prudence, Consistency, and Stamina scales. A significant difference (mild) was found between the auditory and visual **Response Control** global quotient scores. This individual was comparatively better able to inhibit responses to foils in the auditory modality. **Consistency** is a measure of the ability to stay on task and sustain a reliable effort. It is based on the general variability of response time to correct responses, ignoring outliers. Consistency differs from the Focus scale in that Focus includes all responses. There was a moderate difference between the auditory and visual Consistency primary scale scores, indicating that this individual was significantly less variable in her responses to auditory targets.

IVA-AE2 SUSTAINED ATTENTION

Sustained Attention provides a global measure of a person's ability to respond to stimuli under low demand conditions accurately, quickly, and reliably. It also includes an assessment of the ability to sustain attention and be flexible under high demand conditions when stimuli change. Sustained Attention is comprised of Acuity, Dependability, Elasticity, Reliability, Steadiness and Swiftness scales. A mild significant difference was found between the auditory and visual **Sustained Attention** global quotient scores. This individual was better able to pay attention to targets in the auditory modality. The auditory and visual **Acuity** primary scales showed that this individual made fewer errors of omission under low demand conditions in response to auditory targets. This difference was moderate. **Elasticity** measures the number of errors of omission occurring when a visual 3 or auditory 5 is presented immediately after an auditory 3 or visual 5 during high demand conditions and reflects the individual's ability to be flexible when faced with changing conditions. She showed a difference between the two sensory modalities that was slight in degree. Performance was significantly better in the auditory modality. **Steadiness** is a measure of accuracy in clicking to targets under high demand conditions (i.e., when the visual 3s or auditory 5s are frequent). Steadiness reflects idiopathic errors of omission. There was a moderate difference between the auditory and visual Steadiness primary scale scores, indicating that this individual made significantly fewer auditory idiopathic errors of omission when the demand to perform was high. **Swiftness** is a measure of response times under low demand conditions when the targets are rare. It reflects the ability to remain alert and respond quickly to targets when the overall demand to pay attention is low. A significant difference between the auditory and visual Swiftness primary scale scores was found and she responded relatively quicker to the visual targets than to the auditory targets to a slight degree when the pace was less demanding,

IVA-AE2 MENTAL CONCENTRATION

The **Mental Concentration** scale is a global measure of attentional functioning that is a combination of many other scales. A mild significant difference was found between the auditory and visual Mental Concentration global quotient scores. This individual was better able to attend and respond correctly to targets in the auditory modality.

IVA-AE2 SELF-CONTROL

No significant differences were found between the auditory and visual Self-Control global quotient scores. No significant differences were found for the Prudence, Reliability, and Stamina primary Sustained Attention scales.

IVA-AE2 PRESENCE

The **Presence** scale is a combination of the Acuity, Elasticity, Steadiness, and Vigilance scales. All of these scales measure different types of errors of omission. A moderate significant difference was found between the auditory and visual Presence global quotient scores with the higher scores in the auditory modality. **Acuity** measures errors of

omission under low demand conditions. Acuity is a subset of the Vigilance scale, but does not include propensity errors of omission. There was a moderate difference in the performance between visual and auditory Acuity with fewer errors of omission to auditory targets. **Elasticity** measures the number of errors of omission occurring when a visual 3 or auditory 5 is presented immediately after an auditory 3 or visual 5 during high demand conditions and reflects the individual's ability to be flexible when faced with changing conditions. She was more flexible in her responses to auditory targets and this significant difference was a slight one. **Steadiness** is a measure of accuracy in clicking to targets under high demand conditions (i.e., when the visual 3s or auditory 5s are frequent). Steadiness reflects idiopathic errors of omission. She made significantly fewer omission errors to auditory targets than to visual targets. A moderate difference was identified. The **Vigilance** scale showed a moderate difference in responses to visual and auditory targets with her missing fewer auditory than visual targets.

IVA-AE2 RESILIENCE

The **Resilience** scale is a combination of the Consistency, Dependability, Focus, and Stability scales. All of these scales measure the variability of response times to targets. A significant difference was found between the auditory and visual **Resilience** global quotient scale scores. The observed difference was a slight one. This individual performed better in the auditory modality. There was a moderate difference between the auditory and visual **Consistency** primary scale scores, indicating that this individual was less variable in her responses to auditory than to visual targets.

IVA-AE2 AGILITY

No significant differences were found between the auditory and visual Agility global quotient scores. **Quickness** is a measure of response times when the targets are frequent. It reflects the ability to remain alert and correctly respond to targets when the overall demand to pay attention is low. She responded faster relatively to auditory targets under High-demand conditions. This difference was slight. For the Speed scale, her average reaction time showed a slight difference between the two modalities with faster reaction times to auditory targets than to visual targets. **Swiftness** is a measure of response times under low demand conditions when the targets are rare. It reflects the ability to remain alert and respond quickly to targets when the overall demand to pay attention is low. Under low-demand conditions, she responded faster relatively to visual targets. This significant difference was rated as slight.

IVA-AE2 ACCURACY

Accuracy is based on the number of times an individual makes a 'true' correct response. A true correct response is defined as clicking to the visual '3's or auditory '5's one time under both high and low demand conditions and not clicking to any auditory '3's or visual '5's. This scale provides a global measure of an individual's accuracy of responding. A slight difference was found between the auditory and visual Accuracy global quotient scores with a significantly higher scale score shown in this individual's response to auditory stimuli.

IVA-AE2 COMPETENCE

Competence is a measure of functioning under high demand conditions. It consists of Prudence, Steadiness, Stability, and Quickness. A mild significant difference was found between the auditory and visual Competence global quotient scores with better performance by this person in the auditory modality. With respect to the **Quickness** scale, she responded faster relatively to auditory targets. This difference was slight. In regards to the **Steadiness** scale, she made fewer omission errors to targets in the auditory modality.

This significant difference was a moderate one.

IVA-AE2 MAINTAINABILITY

Maintainability measures functioning under low demand conditions and is comprised of the scales Reliability, Acuity, Dependability, and Swiftness. A slight difference was found between the auditory and visual Maintainability global quotient scores. Scores were significantly higher for the auditory modality. Her **Acuity** scores were higher in the auditory modality. This difference was moderate. **Swiftness** is a measure of response times under low demand conditions when the targets are rare. It reflects the ability to remain alert and respond quickly to targets when the overall demand to pay attention is low. She exhibited faster mental processing speed as reflected by the **Swiftness** scale to visual targets than to auditory. The difference found was a slight one.

I have reviewed the test scores in this interpretative report and have modified them as necessary in accordance with my comprehensive evaluation, the client's history and other relevant clinical data.

Signature John A. Smith, Ph.D.

Name John A. Smith, Ph.D.

Title Clinical Psychologist