

Waggoner

Waggoner CCVT vs. Traditional Books



	Waggoner CCVT	Ishihara	HRR
Screening	✓	✓	✓
Genetic (8% of males, .5% of females)	✓ (25 Plates)	✓	✓ (4 Plates)
Acquired (15% general population)	✓ (12 Plates)	✗	✓ (2 Plates)
Diagnostic (Extended)	✓	✗	✗
Qualitative (Type of deficiency)*	✓	✗	Limited
Protan*	✓	✗	Limited
Deutan*	✓	✗	Limited
Tritan*	✓	✗	Limited
Quantitative (Degree of deficiency)*	✓	✗	Limited
Mild*	✓	✗	Limited
Moderate*	✓	✗	Limited
Severe*	✓	✗	Limited
Satisfies CPT 92283	✓	✗	✗
Easy access to ICD-10 Codes	✓	✗	✗
Adaptive Testing (Save time)	✓	✗	✓
Standardized (Timed plates)	✓	✗	✗
Randomized (Reduces memorization)	✓	✗	✗
Self-Administered (Remove administrator bias)	✓	✗	✗
Self-Scored	✓	✗	✗
Comparable to the Nagel Anomaloscope (Diagnostic Gold Standard)	✓	✗	✗
Accepted by U.S. Army, Navy, Coast Guard, and Marines	✓	✗	✗
21st Century	✓	✗	✗
Measures progression over time for acquired deficiencies	✓	✗	✗
Audio options available	✓	✗	✗
Easy to save to EMR	✓	✗	✗
Patient database with past results	✓	✗	✗
Pediatric	✓	✗	✓
Tests for malingering	✓	✗	✓
Invalid and unreliable counterfeits have flooded market	✗	✓	✗

* Additional test plates increase sensitivity and specificity
 Waggoner CCVT: 102 Test Plates
 Ishihara: 14, 24, 38 Test Plate Versions
 HRR: 20 Test Plates