

# ***THE biVABA (Brain Injury Visual Assessment Battery for Adults)***

***Designed by Mary Warren MS, OTR/L, SCLV, FAOTA***

Based on 25 years of clinical practice and research; and, field tested in clinics, the biVABA provides therapists with a practical tool for completing a quick, accurate, reliable, and useful assessment of visual processing ability following adult brain injury. It is not a diagnostic battery, but rather a treatment tool designed to provide therapists with the information needed to develop effective treatment intervention and document functional changes.

## ***What advantage does the biVABA have over traditional visual perceptual tests?***

### **☐ The biVABA GUIDES TREATMENT PLANNING**

Where other tests merely label the perceptual deficit, the biVABA guides treatment planning by showing **how** the perceptual process has changed as a result of brain injury, **how** functional performance may change because of the visual perceptual deficit and **which** treatment interventions will be effective.

### **☐ THE biVABA ASSISTS IN IDENTIFYING REHABILITATION POTENTIAL**

The biVABA enables therapists to determine if the client will benefit from cuing, structure or practice, assisting to identify the client's rehabilitation potential and the number of treatment sessions required.

### **☐ THE biVABA ENABLES EARLY DETECTION AND REMEDIATION OF VISUAL DEFICITS MAXIMIZING FUNCTIONAL OUTCOMES AND SAVING MONEY**

The biVABA includes instructions for modifying the subtests to measure visual processing in clients with limited cognition, language and attentional capabilities so that visual processing deficits can be identified early in the client's recovery. This ensures that treatment dollars will not be wasted in working with clients whose unidentified visual deficits prevent them from fully participating in and benefiting from therapy.

### **☐ THE biVABA INCLUDES ALL OF THE TESTS NEEDED TO COMPLETE A COMPREHENSIVE ASSESSMENT OF THE CLIENT'S VISUAL PROCESSING**

While other tests may only measure one aspect of visual perceptual processing requiring the purchase of several different test kits, the biVABA contains all of the testing materials needed to complete a comprehensive assessment of the client's visual function.

### **☐ THE biVABA IS QUICK AND EASY TO ADMINISTER AND INTERPRET**

The evaluations included in the biVABA are easy to administer, and score. Interpretation of test performance is provided in the test manual making it easy to summarize results.

### **☐ THE biVABA EQUIPS THERAPISTS TO EXPLAIN VISUAL PERCEPTUAL DEFICITS TO THE CLIENT, FAMILY, PHYSICIANS, INSURANCE COMPANIES AND OTHER TEAM MEMBERS**

While other test kits provide a brief booklet of instructions, the biVABA provides a comprehensive 150 page manual. The manual, in addition to detailed test instructions, includes sections on the rationale for evaluation and treatment of visual perceptual impairment following brain injury, specific visual impairments following brain injury and their effect on functional performance, interpreting test results to clients and family, consulting with optometrists and ophthalmologists, and implementing treatment planning based on test performance.

### **☐ THE biVABA CAN BE USED TO EVALUATE CLIENTS WITH BOTH BRAIN INJURY AND LOW VISION**

The biVABA contains 4 subtests which can be used to measure visual function in persons with low vision secondary to macular degeneration, diabetic retinopathy, glaucoma, and other conditions, enabling the test to be used for both populations.

*The battery includes these standardized assessments :*

- **visual acuity (distant and reading)**
- **contrast sensitivity function**
- **visual field (central and peripheral)**
- **pupillary function**
- **binocular eye movements**

- **diplopia testing**
- **near space search strategies**
- **extrapersonal search strategies**
- **attention to visual detail**
- **eye dominance**

*The comprehensive, easy to read, test manual provides:*

- **detailed instructions on how to give and interpret each subtest**
- **the functional limitations expected if the visual function is impaired**
- **how to use test results to write treatment goals and**
- **design treatment intervention**
- **alternative methods for evaluating persons with limited capability to respond**

*Along with the Test Manual the biVABA includes:*

**Assessment Forms:**

Clinical Observations Indicating Visual Impairment  
Basic Visual Function Assessment  
Damato 30 Point Multifixation Campimeter Recording Form  
Oculomotor Function Assessment  
Visual Attention Assessment

**Test Charts:**

Intermediate Acuity Chart  
Warren Text Card  
LeaNumbers Low Contrast Screener  
Damato 30 Point Multifixation Campimeter  
ScanBoard  
Design Copy Figures

**Visual Attention Subtests:**

Single Letter Search-Simple  
Single Letter Search-Crowded  
Word Search  
Structured Complex Circles Search  
Random Plain Circles-Simple  
Random Plain Circles-Crowded  
Random Complex Circles Search  
Telephone Number Copy

**Scoring Templates:**

Single Letter Search-Simple  
Single Letter Search-Crowded  
Word Search  
Structured Complex Circles Search  
Random Complex Circles Search

**Miscellaneous:**

penlight      black eye patch      black plastic occluder      hand held occluder      carrying case

## Examples from the Test Manual:

### Table of Contents

1	INTRODUCTION: RATIONALE FOR EVALUATION AND TREATMENT OF VISUAL PERCEPTUAL IMPAIRMENT FOLLOWING BRAIN INJURY
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### Example Test Interpretations from Section 5

On the Visual Attention Subtests:

**The client demonstrates a random search pattern.** Observation of a random, unpredictable search pattern is the strongest indicator of the presence of visual inattention and creates the most disruption in the search pattern. Clients who display random search patterns generally have very limited ability to complete visual processing and will demonstrate significant perceptual deficits. The old adage of “garbage in-garbage out” applies in this case. Without organization to the search pattern, the incoming visual information does not make sense. It would be as though one tried to comprehend a novel by reading one sentence on page 34, another on page 67, and another on page 23. If the random search pattern occurs in conjunction with an abbreviated scanning pattern and/or an asymmetrical scanning pattern it may indicate the presence of VFD and/or hemi-inattention. The severe disruption of information processing will often result in difficulty locating and analyzing visual information and cause significant limitations in daily living tasks.

On the Pupillary Responses Subtest:

**Presence of a dilated pupil on observation.** This may indicate blindness in the eye (amaurosis), optic atrophy, or a 3rd cranial nerve lesion. If the client has vision, and the pupil remains dilated during accommodation, he or she may experience blurring of vision in the eye when focusing at a near distance causing difficulty reading and completing other near vision tasks. Increased sensitivity to light also may be present.

## *Additional Information about the biVABA:*

### ***What diagnoses are appropriate for assessment with the biVABA ?***

The biVABA can be used to assess visual processing in teenagers and adults with acquired brain injury including traumatic brain injury, CVA, brain tumor, encephalopathies, anoxia, and degenerative neurological conditions.

### ***What ages can be assessed with the biVABA ?***

The biVABA can be used without modification for ages 14 years and older.

### ***In what treatment settings can the biVABA be used ?***

Lightweight and completely portable, the biVABA is designed for use in acute and long term care, home health, and inpatient and outpatient programs. The biVABA measures abilities from simple to complex and can be used to assess low and high functioning clients. Components of the battery also can be used to evaluate low vision conditions associated with macular degeneration, diabetic retinopathy, glaucoma and cataract.

### ***About the Author of the Test:***

**Mary Warren MS, OTR/L, SCLV, FAOTA**, is an Assistant Professor of Occupational Therapy at the University of Alabama Birmingham and a clinician and researcher specializing in the treatment of adult onset visual dysfunction. She has presented numerous workshops on visual perceptual dysfunction following acute brain injury and is an internationally recognized authority in this area. Her research has been published in the American Journal of Occupational Therapy and she has contributed chapters to several rehabilitation textbooks. Her awards include the Cordelia Myer's Writer's Award from AOTA, the Award of Clinical Excellence from the Kansas OT Association, and the Healthsouth Rehabilitation Award for Clinical Excellence in Occupational Therapy from AOTF.

**Ordering Information: Questions?:** Contact Craig with vis**ABILITIES** toll free @ (888) 850-5416.

**By Mail:** Send completed form with payment to vis**ABILITIES**. (see order form for address)

**By Fax:** Fax completed order form with credit card information or PO# to (205) 823-6657.

**Purchase Amount:** A total retail value over \$700, available for only **\$495**.

**Payment Methods:** Check, credit card (VISA or Mastercard only), or PO# must accompany order. Multiple purchase discount is available. For information contact vis**ABILITIES**.

**Purchase Orders:** One, two or more PO's may be used to purchase the biVABA. The combined value must equal the total order amount and all PO's must be received before shipping (example: if PO max is \$200, then PO#1 will be \$200 for Part 1 of the biVABA, PO#2 \$200 for Part 2, and PO#3 \$95 for Part 3 etc.). **Terms:** net 30 days.

**International Customers:** Please fax or mail the completed form with the preferred method of shipping indicated. You will be sent a Pro Forma invoice, and the merchandise will be shipped upon receipt of payment in US dollars.

**Shipping and Handling:** Within the US and Canada, UPS ground service is included in purchase amount. Customers are responsible for shipping charges abroad or if Overnight or 2nd Day Delivery is requested.

**Sales Tax:** Please add 8.0% sales tax on orders within Alabama, unless you have an exemption, then please submit the tax exempt documentation.

# THE biVABA ORDER FORM

vis**ABILITIES** Rehab Services  
 1634-A Montgomery Hwy / #195  
 Hoover, AL 35216-4902  
 Federal ID 48-1156507

(888) 752-4364 (24 hours, 7 Days a Week)  
 (205) 823-6657 Fax (24 hours, 7 Days a Week)  
 www.visabilities.com website  
 info@visabilities.com e-mail

Date \_\_\_\_\_ Method of payment:  Check  Charge  PO# \_\_\_\_\_

**BILL TO:**

Name \_\_\_\_\_

Facility \_\_\_\_\_

Department \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip \_\_\_\_\_ Country \_\_\_\_\_

**SHIP TO:**

Name \_\_\_\_\_

Facility \_\_\_\_\_

Department \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip \_\_\_\_\_ Country \_\_\_\_\_

Phone (\_\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_\_) \_\_\_\_\_

QUANTITY	DESCRIPTION	PRICE	TOTAL
_____	<b>Brain Injury Visual Assessment Battery for Adults</b>	<b>\$495</b>	_____
ALABAMA RESIDENTS ONLY ADD 9.0% SALES TAX TO ABOVE TOTAL OR INDICATE EXEMPT _____			
SPECIAL SHIPPING CHARGES (ABOARD, OVER NIGHT OR 2ND DAY) _____			
TOTAL ORDER			_____

  

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AMOUNT TO BE CHARGED \_\_\_\_\_ EXP DATE \_\_\_\_\_

PRINT CARD HOLDER'S NAME \_\_\_\_\_

CVV2 CODE \_\_\_\_\_ APPROVAL SIGNATURE \_\_\_\_\_