

## **New FD2™ SUMMARY OF TEST PROTOCOL**

See Test Instructions Booklet for full details.

See overleaf for block diagram

**The FD2 TEST GOAL** is to record the smallest disparity that the patient can discriminate reliably using only binocular disparity cues. This disparity is a measure of stereoacuity. Reliability is usually defined for the FD2 as two correct choices from three presentations *BUT* more presentations should be used if necessary. There are two phases to the Protocol (revised version, May 2005):

### **BINOCULAR THRESHOLD FIRST THEN MONOCULAR THRESHOLD**

Following demonstrations that some observers can discriminate FD2 targets using monocular cues, particularly if the test distance is 3m (see Test Instruction Booklet for details), it is now recommended that following initial measurement of the FD2 Binocular Threshold a check is made of monocular performance, with possible outcomes:-

- \*If a Monocular Threshold cannot be measured or if it is worse then the Binocular Threshold is recorded as the FD2 stereoacuity.
  
- \*If the Monocular Threshold is equal to or better than Binocular Threshold then the Binocular Threshold is disregarded.

### **GENERAL PRECAUTIONS AGAINST MONOCULAR CUES**

- \* Show FD2 squarely and at eye level.
- \* No head movements
- \* Establish first that the observer sees a depth difference between target and background shapes
- \* Avoid giving cues as to which shape is selected as the target when adjusting rod positions
- \* Rotate all four rods slightly between trials to avoid cue of only the target shape position changed
- \* Encourage responding throughout on the basis of perceived *depth* differences
- \* For hesitant observers, and particularly those able to meet the 2 out of 3 correct criterion only at the larger disparities, it is desirable to use a more stringent criterion (e.g. 4 out of 5) and to make further checks during the test run that responding is on the basis of depth differences. Use clinical judgement in deciding test outcome. Also, while hesitant observers should be encouraged to respond, avoid asking for wholly random choices as there is usually insufficient clinical test time for the extended trials required to check for random responding. Thus be guided by the observer's reports of what they see. See Test Instructions Booklet for further details.

### **BEGIN WITH A DEMONSTRATION TO ENSURE TEST UNDERSTANDING**

Show largest disparity (50" at 6m) and ask: "Do you see one shape sticking out nearer to you than the others?" If the answer is a confident and correct "YES", proceed to test proper. Otherwise, try showing the FD2 at near, by walking the observer to the FD2, again asking "Which shape is nearer to you?" If convinced that Test Understanding is demonstrated, proceed to testing.

**New FD2 Protocol Revised May 2005: Binoc Test then Monoc**

**Binocular threshold test first**

**Show 50"** Ask: "Do you see one shape sticking out nearer to you than the others?"

**Yes & Correct**  
Reduce disparity, roughly halving. Show with random choice of shape, ask: "Which shape now?"  
**Continue.....**  
decreasing/increasing disparity to find the level at which 2 out of 3 correct  
  
**Use 4 out of 5 correct** if only larger disparities of 50-40 sec arc responded to correctly

**No &/or Incorrect**  
Repeat 50"  
With random choice of shape  
Ask again: "Now do you see.....?"

**Yes & Correct**

**Record FD2 Stereoacuity**  
E.g. FD2 20"

**No and/or Incorrect**  
Two "No depth seen" &/or Two errors  
**Record FD2 -ve**

**Monocular threshold test Begins Here**

Occlude the non dominant eye

Go back **two** markings on the rod from the binocular threshold.

**2 out of 3 correct**  
Reduce disparity and continue to monocular threshold

**If negative**  
**Record binocular score**

**If Monocular Threshold is equal to binocular threshold**  
disregard binocular score  
**Record FD2 Inconclusive**

**If Monocular Threshold is worse than binocular threshold**  
**Record binocular score**

See overleaf and the *New FD2 Test Instructions Booklet* for further