

OculoMotor Assessment Tool (OMAT)

Instructions for Use

Vergence Testing

Gulden Ophthalmics, Inc. • 225 Cadwalader Avenue • Elkins Park, PA 19027 • USA
www.GuldenOphthalmics.com • 800-659-2250

Setup for Vergence Testing:

Use only the Vergence Bar and Sliders. Place the end of the Vergence Bar on a patient's nasion [top of the nose, between the eyes] and ensure that the Vergence Bar is parallel to the floor. The Vergence Bar should stay parallel to the floor throughout testing.

Vergence Eye Movements:

Slide on the two sliders with both targets facing down and the larger slider further away from the patient. Ensure that the targets (i.e. small vertical lines) are on the side facing the patient. The table below provides the binocular angle of rotation that the patient's eyes will be making if the sliders are placed on the corresponding lettered locations. (Recommended to place the larger slider on A and smaller slider on F).

Slider 1	Slider 2	Binocular Angle
A	C	4°
A	D	8°
A	E	10°
E	F	10°
D	F	12°
A	F	20°

Instruct the patient to look back and forth between the targets (Sliders) for a predetermined time (recommended for 1 minute). Additionally, inform the patient to not move onto the next target unless the target they are looking at is single. Count and record the number of vergence eye movements made in that time frame.

Near Point of Convergence:

Attach the larger slider onto the Vergence Bar with the line of letters facing the patient.

Slowly move the slider with the line of letters closer to the patient and ask the patient to let the operator know when the line of letters double (are no longer single).
Record this as the NPC break point in cm (indicated on Vergence Bar).

Pull the slider away from the patient and ask them to let the operator know when the line of letter are single again. Record this as the NPC recovery point in cm (indicated on Vergence Bar).

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Saccade Testing

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Setup for Saccade Testing:

Attach the Saccade Bar onto the Vergence Bar via the magnets. Place the end of the Vergence Bar on a patient's nasion [top of the nose, between the eyes] and ensure that the Vergence Bar is parallel to the floor. The Vergence Bar should stay parallel to the floor throughout testing.

Horizontal Saccades:

Orient the Saccade Bar horizontally and parallel to the floor. Instruct the patient to look back and forth between the green and red X's (without over-shooting or under-shooting) for a predetermined time (recommended for 1 minute). Count and record the number of saccades made in that time frame.

Vertical Saccades:

Orient the Saccade Bar vertically and perpendicular to the floor. Instruct the patient to look back and forth between the green and red X's (without over-shooting or under-shooting) for a predetermined time (recommended for 1 minute). Count and record the number of saccades made in that time frame.

OculoMotor Assessment Tool Notes:

- ***Uses:***
This device has applications beyond timed tasks. The OMAT provides consistent targets for the patient, so it can have a number of additional uses depending on user needs.
- ***Comparison to the VOMS protocol:***
Utilization of this tool for saccadic movements is the equivalent of an operator standing 3 feet away from the patient with their index fingers 3 feet apart as described in the VOMS protocol.
- ***Recommended Cleaning:***
Use of mild soap and water. An alcohol wipe may be used quickly if it is not dripping wet. This will tarnish the bars over time and may fade the white distance markings.