

Determination of the human visual field

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Principle

The part of the surroundings perceived with an unmoved eye is called the visual field. In contrast, the field of view is that part of the surroundings perceived by the eyes when allowed to move freely but without moving the head. Depending on the uneven distribution of rods and cones in the retina (only cones in the centre and only rods at the periphery, with mixed rods and cones in between), the size of the visual field varies with the colour of the test object. The extent of the visual fields of both eyes and the position of the blind spot are determined with the aid of a perimeter.

Benefits

- Perimeter design semidiagnostic, therefore appropriate for medical education

Tasks

1. Determination of the visual field of the right and left eye for white, blue, red and green
2. Detection of any visual field deficiency (scotoma)
3. Location of the blind spot (site of optic nerve emergence)

Learning objectives

- Perimeter
- Visual field (for white, blue, red, green)
- Field of view
- Blind spot
- Scotoma
- Rods and cones

Scope of delivery

Perimeter, diameter 60 cm	65984-00	1
Stand rods, stainless steel, various sizes	02032-00	1
Bench clamp expert	02011-00	1
Boss head	02043-00	1
Protractor scale with pointer	08218-00	1
Stand tube	02060-00	2
Support base DEMO	02007-55	1
Table top on rod	08060-00	1