



HOTV Hand-held 50% Crowded Book

Part Number: 600350



The HOTV 50% Crowded Book is a variant of line test for children/adults who cannot concentrate on looking at a chart. The HOTV optotypes are arranged so that the center symbol is surrounded on all four sides by bars of similar size. The interaction between the center optotype and the surrounding bars is approximately the same as in a line test. The test has a convenient size and is easy to handle when screening or when used during home visits and other similar test situations. It is usually the first line test that can be used to measure visual acuity of a young, amblyopic child's eye thus revealing the effect of crowding.

Instructions

- First establish a method of communication such as naming (signing) or pointing (matching). Decide with the child which names will be used to identify the optotypes. Train with the use of the HOTV Response Key Card (#700515) or HOTV Flash Cards (#700523).
- Show the largest optotype size at near distance and then move backward 3 meters (10 feet), while watching for signs of inattention. If the child's attention/visual sphere is limited, move closer the child. Always measure well within the child's visual sphere.
- Show one page in each optotype size, and ask the child to identify only the optotype on the left. Continue until the child hesitates or gives a wrong answer. Turn back to the previous symbol size pages and show all four pages, one at a time. Ask the child what the symbol on the left is and then what the next picture is (the one in the middle).
- If the child responds correctly to three out of the four middle optotypes on the four pages, go on to the pages with the next smaller size optotype.
- If the child responds correctly to two out of the four middle optotype on the four pages, flip back to one of the previously read pages of the same symbol size and give a fifth choice. The visual acuity threshold is defined as the last level (symbol size) where at least three out of five middle symbols were identified correctly.
- If the child correctly identifies only two of the five optotype, report visual acuity as that of the previous larger optotype size. To get more information for follow-up examinations, write down (+2) after visual acuity value to record that the child identified two middle symbols correctly in the next smaller size. For example, "20/32(+2)" indicates the child passed the 20/32 line and also correctly named two middle symbols on the 20/25 line.