

Cardiff Tests with Chinese Instructions: For Children 6 month to 3 years



Set includes cards, Carrying case, instructions and Fun Frame Occluding glasses, such as the Parrot or Butterfly. Chinese Language Version includes instructions in Simplified Chinese, Traditional Chinese and English.

Chinese Cardiff Acuity Test

The Cardiff Acuity Test™ is designed specifically for acuity measurement in children aged 6 months to 3 years. The test may also be helpful with other age groups with intellectual impairment, dementia, head injury or stroke. Other versions are available for contrast, near point, and special needs testing which employ similar techniques.

TEST PRINCIPLES

The test employs the principle of Vanishing Optotype, in other words the figure (fish, car etc.) blends with the gray background shades at the acuity threshold. Thus resolution, detection and recognition acuity thresholds are all brought together. The target figures are pictures, all of the same overall size, drawn in decreasing widths of white and black lines. Acuity is determined by the narrowest white band for which the target is visible to the child. Recent studies have again shown almost identical results for testing with Teller or Cardiff.

As the examiner shuffles through the cards, the movement of the child's eyes up or down is noted. The Vanishing Optotypes are combined with the principle of 'Preferential Looking' to provide a pediatric test method that provides excellent accuracy of diagnosis. When a card is presented the child will choose to look towards the top or bottom of the card if they have sufficient acuity to recognize the target figure. This works because the child naturally prefers to look at a target figure rather than the blank end of the stimulus. If the child does not show a preference for either the top or bottom of the card, the acuity threshold has been exceeded.



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TEST ADMINISTRATION

The Standard Cardiff Acuity Test includes three cards at each acuity level. Cards can be used at either one meter or 0.5 meter. The Standard Card Set includes 36 cards providing 24 acuity levels when used at both distances. Thus they cover acuity levels from 20/320 to 20/12.5 (6/96 to 6/3.75). Nine Low Vision cards are also available separately as P/N 4754R and extend acuity levels up to 20/640 (6/192).

A working distance of 40 inches (one meter) is recommended. At this distance eye movement position judgements are reliable and a range of 20/160 to 20/12.5 (6/48 to 6/3.75) can be measured with the Standard Set. A closer working distance of 20 inches (50 cm) can be used as an alternative to test lower acuity levels or allow closer interaction with the child.

The Cardiff Test employs an up-down positioning of the target figures rather than the right-left separation (as is used in the Teller Acuity Cards™ II) so that the eye movements are easier to discriminate in cases of congenital nystagmus. Further, the Cardiff Test can be used in cases of suspected malingering as the patient's eye movements are involuntary. Administering the Cardiff Acuity Test is relatively quick and easy to learn. On average, an experienced examiner can conduct a complete test in 3-5 minutes.

Cards measure 7 3/4 by 10 1/2 in (20 by 27 cm) and are labeled by acuity level equivalents in decimal, meters, feet, Snellen and LogMAR for both test distances. CE marked

PRICING

5681R Cardiff Acuity Test with Simplified Chinese, Traditional Chinese and English Instructions US \$ 1400.00
4754R Low Vision Upgrade (Nine additional Cards supporting 3 added levels) US \$ 400.00

Chinese Cardiff Contrast Test

A separate Cardiff Contrast Sensitivity Set is also offered. The targets employed by the test are pictures, all of the same overall size, but decreasing in contrast between the light and dark bands. The contrast sensitivity is determined by the faintest bands for which the target is visible. The test covers 12 Contrast levels using three Cards at each level (36 cards total). These contrast levels start at 46% and decrease to 1 % which equates to sensitivity levels from 2.17 to 100.

Results from the test are presented in a manner that is consistent with scoring of the Pelli-Robson Contrast Test for adults. The test has recently been adapted slightly to make the subject pictured in the drawings more appropriate for use with both children and adults with intellectual impairment. CE Marked

5684R Cardiff Contrast Sensitivity Test for Children and Adults with Intellectual Impairment includes Simplified Chinese, Traditional Chinese and English Instructions US \$ 1650.00

Developed by:

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