

L2

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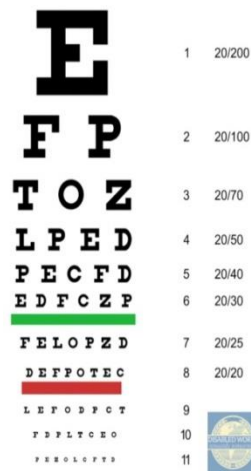


جامعة المستقبل  
قسم تقنيات البصريات

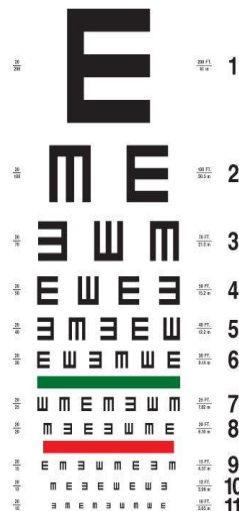
طب عيون الاطفال

## Pictures on Snellen chart

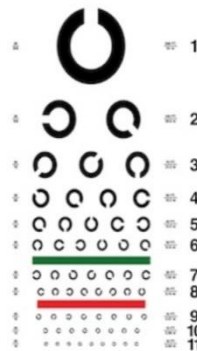
- ❖ **A Snellen chart** is an eye chart that can be used to measure visual or measures a person's vision by how well they can read and see detail.
- ❖ Its name comes from Dr. Hermann Snellen, who invented the eye chart in 1862.



- ❖ **E chart:** used to measure a patient's visual acuity.
- ❖ **Uses:** This chart is useful for patients who are unable to read the Latin alphabet – for example, very young children. It is also used in countries where people do not use the alphabet in their native language – for example, in China.

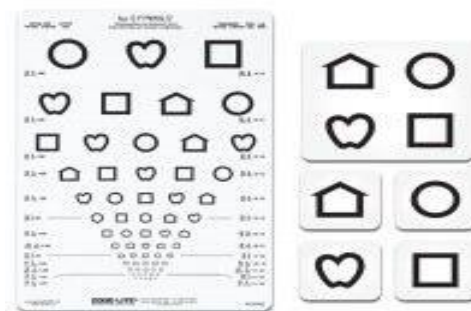


- ❖ **The Landolt C** also known as a Landolt ring, Landolt broken ring, or Japanese vision test, is an optotype: a standardized symbol used for testing vision.
- ❖ It was developed by the Swiss-born ophthalmologist Edmund Landolt.



### ❖ **LEA Symbols Chart:**

- This chart was designed for visual acuity screening in children to eliminate the problems of language barriers.



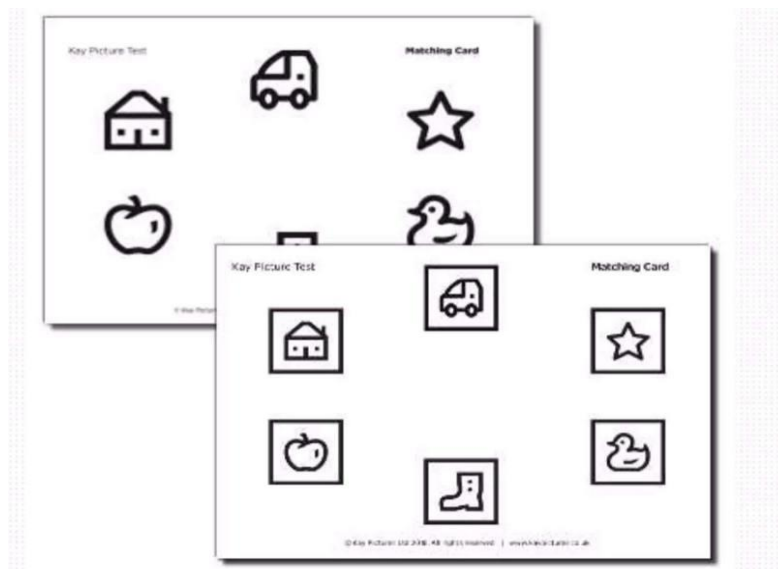
### ❖ **Cardiff Acuity Test (CAT)**

- Principle: vanishing optotype
- Target- pictures, of the same overall size, drawn in decreasing widths of white space
- Acuity is determined by the narrowest white band for which the target is visible to the child
- Child naturally prefers to look at a target figure rather than the blank end of the stimulus.



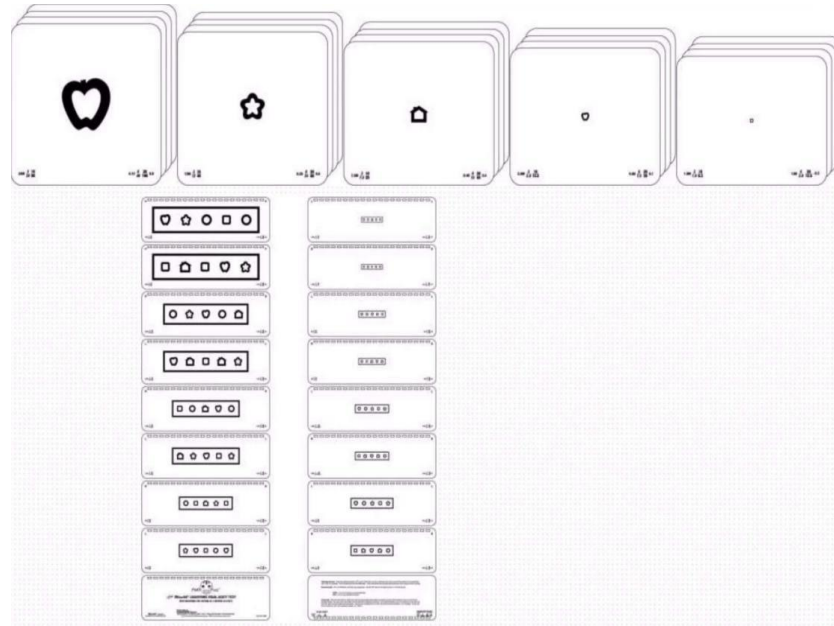
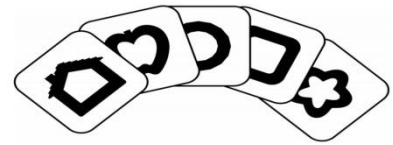
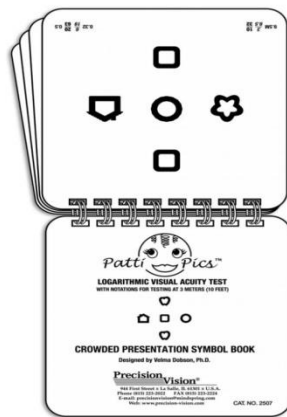
## ❖ Kay picture Test

- Kay Picture visual acuity test is the Gold Standard vision test for pre-literate children, providing accurate, crowded visual acuity measurements earlier than symbol and letter tests
- Features of kay pictures
  - It is used for children of 2-3 years .
  - The test is done at distance of 6 meter.
  - It is based on snellen principle.
  - The chart is in the form of spiral booklets.
  - Each page has a single picture.
  - The size goes on decreasing from 6/60 to 6/6
  - With each size having 3 cards.
  - Again the patient is given a key card and is
  - asked to match with the picture as shown in
  - The main chart.



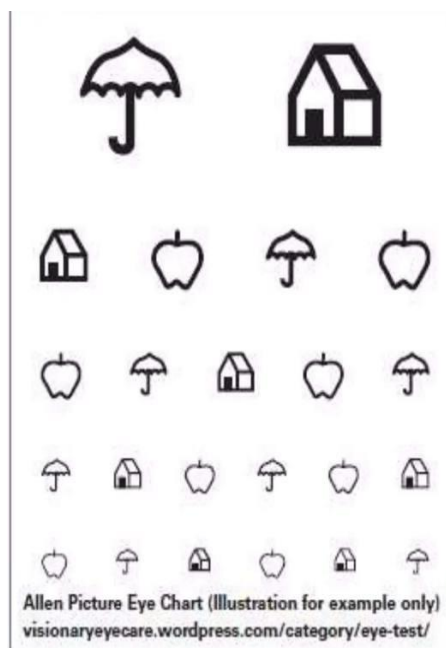
## ❖ Patti Pics

- Have been developed for pediatric testing and are calibrated to Sloan standards. Each optotype follows strict criteria. Each symbol has equal difficulty and blur at threshold. Also, the size of each symbol is based from the Snellen 5x5 grid principle. All Patti Pics symbols are easily recognizable and have high testability. Furthermore, Patti Pics make the transition from pediatric tests to adult tests easier, since they are based from the same standards as the adult tests. Mistaken loss or gain of lines is minimized. Patti Pics symbols are great for pediatric testing and are highly reliable.



### ❖ Allen's Picture Cards

- It is recorded same as Snellens Acuity test. Instead of letters, child identifies picture at a distance of 6m.

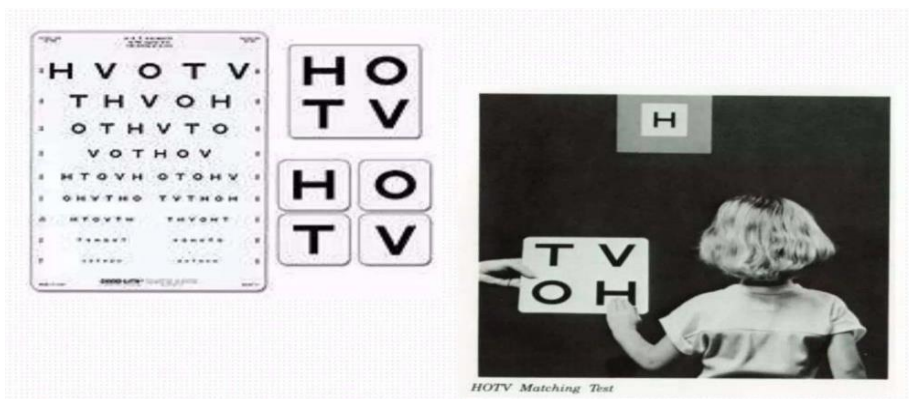


❖ **Sheridan letter test**

- It uses 5 letters HOTV & X A & U are added in 7 letter set Examiner shows cards having small range of letters at 3m Child points at one of the card identical to the examiner card

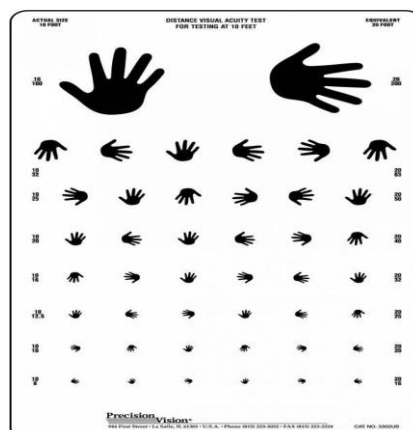
❖ **Lippmans HOTV test**

- Simpler version of Sheridan's test using only 4 letters HOTV.
- Test distance 3meter

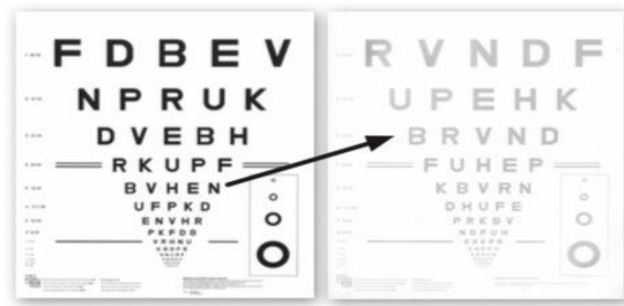


- ❖ Isolated hand figure test

- Sjogren has replaced the E with the isolated figure of a hand & in some children it works better than Es.



- ❖ **The Bailey-Lovie chart** determines the distance of visual acuity at normal and low contrast. The lower contrast version is also available.



- ❖ **The ETDRS** is a test used to measure the visual acuity of patients who suffer from low vision, that is to say, with vision below the desired level and it takes its name from the study for which it was designed: Early Treatment **Diabetic Retinopathy** Study.



- ❖ **The Freiburg Visual Acuity test** is an automated procedure for self-administered measurement of visual acuity. Landolt-Cs are presented on a monitor

