Introduction to Visual Acuity

Concepts and Procedures
The trainees are in discussion in their study hall after the “Silent Hospital Tour”. They happened to hear a word “VISION TEST “ often, which they used to hear during their schooling...
I am so happy about your keen observation! It is important that an Ophthalmic assistant should know to perform vision test in a patient. Therefore, our today’s topic will be on “Visual Acuity” (VA). Visual acuity is the medical term for “Vision Test”.

Hi, friends, shall we ask our senior sister to explain “Vision Test”?

Sister, the patients were first asked to undergo “Vision Test”. Can you please tell us what Vision Test is?
Learning Goals

By the end of this session, you will be able to:

- Define visual acuity
- Explain the standards of visual acuity
- Classify the types of visual acuity
- Explain the principles and practical aspects of vision by snellen’s chart
- Demonstrate the step by step methods of performing visual acuity
- Interpret their practical findings and record accurate documentation
- Adapt to compassionate medical service towards their patients
VISUAL ACUITY: Power of the eyes to see objects clearly and distinguishably at a specified distance.

SHARPNESS OF VISION

Let us learn what VISUAL ACUITY is!

6mts distance
History Taking - Documentation
Ophthalmic Assistant
Performing Visual Acuity
Conversation

Your patient may come to you during lunch time / they may look tired after travel! However, it is the responsibility of the ophthalmic assistant to show their love and concern towards their patient. Sometime the patient may not cooperate due to ill health, make the patient sit calm for some time and assess their vision after few minutes. ..

assistant to verify and check whether the

RIGHT TREATMENT is given to the RIGHT PATIENT!
Types of Visual Acuity

• 3 types
  – Distance Visual Acuity
  – Near Visual Acuity
  – Pinhole Visual Acuity
Testing Visual Acuity

• In vision test, each eye must be tested independently
Distance, Near & Pinhole VA-video
Types of Charts

- Snellen’s chart
- E-chart
- Landolt’s chart
- Cake decoration
- Sheridan – Gardiner test chart
- Keeler’s preferential chart
- Cardiff visual acuity test
- Cyber chart
Points to Remember

• Each eye should be tested separately
• Give more importance to patients having injury/redness/corneal ulcer/infection
• Special attention to children & mentally challenged people
• Check visual acuity with and without glasses
• Observe the patient while reading the chart and don’t irritate them
• Never allow patient to blink & squint eyes, which may alter the visual acuity
• Document the findings in the patient case sheet
Abbreviations

- **V, VA**: Vision, Visual Acuity
- **OD/RE**: Oculus Dexter / Right Eye
- **OS/LE**: Oculus Sinister/ Left Eye
- **CC**: Cum correction/ with correction
- **SC**: Sine correction/ without correction
- **Ph**: Pinhole
Continuation...

- **HM**: Hand movement/motion
- **PR**: Projection of rays
- **PL**: Perception of light
- **FCF**: Finger counting close to face
- **NLP**: No light perception
- **BCVA**: Best Correction Vision Acuity
Dear trainees thanks for taking the lesson! But do not stop here. Sit in groups and try to assess each other’s visual acuity and record it in your practical register.

Thank you sister!
Thank You !!!