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CONSTRUCTION OF COMPUTERIZED CONTRAST SENSITIVITY CHART USING KANNADA LETTERS, TUMBLING E LANDOLT C

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ABSTRACT

PURPOSE:

To construct a computerized Contrast Sensitivity chart in native language of Karnataka i.e, in Kannada since it is not available.

To construct a computerized Contrast Sensitivity chart for illiterates: Landolt C and Tumbling E.

OBJECTIVE:

To construct Computerized Contrast Sensitivity Chart using Kannada alphabets, Tumbling E, Landolt C.

METHODS:

Computerized Contrast Sensitivity chart using kannada letters, tumbling E, landolt C was constructed using PsychoPy builder view. Kannada letters with higher and equal legibility score has been chosen from the previous literature and the letters was collected on request to be used to build this Contrast Sensitivity Chart. Size of letters was kept constant [20/60] for a particular distance [50cm, 1m, 2m, 3m] while contrast varies with participant's response. Contrast level gradually decreases with correct responses and increases with incorrect responses. This can be performed both monocularly and binocularly. Graph is obtained at the end of the test with final threshold and Contrast Sensitivity value.

CONCLUSION:

Computerised Contrast Sensitivity chart using kannada letters, tumbling E, landolt C was constructed using PsychoPy builder view. But it needs to be validated i.e, compared with standard Pelli-Robson chart before using it to test Contrast Sensitivity clinically.

