Brain Injury associated Visual Impairment - Impact Questionnaire (BIVI-IQ)

Clinician/Researcher Instructions (English)

The Brain Injury associated Visual Impairment Questionnaire (BIVI-IQ) has been developed to assess the impact of brain injury associated visual impairment on an individual's vision-related quality of life. It may be used in everyday clinical practice or as a research tool. The BIVI-IQ is intended to be completed by the individual in a clinical setting or in the individual's home.

The BIVI-IQ is available without cost and may be used in an unaltered form without restriction. If used for research purposes the BIVI-IQ must be clearly identified in all relevant publications by name and citing the following publications:

> Hepworth, L.R. Kirkham, J. Perkins, E. Helliwell, B. Howard, C. Liptrot, M. Tawana, S. Wilson, E. Rowe, F.J. (2023) Validation of the Brain Injury associated Visual Impairment Questionnaire (BIVI-IQ). *Quality of Life Research,* DOI: 10.1007/s11136-023-03565-0
>
> Hepworth, L.R. Rowe, F.J. Burnside, G. (2019) Development of a patient reported outcome measure for measuring the impact of visual impairment following stroke. *BMC Health Services Research*, 19, DOI: 10.1186/s12913-019-4157-3

If you wish to change or translate this tool in any way, please contact lauren.hepworth@liverpool.ac.uk. A concept elaboration report is available for free download to support this process.

Completing the BIVI-IQ

Each of the BIVI-IQ questions are answers with the following response options: 'no difficulty', 'some difficulty', 'a lot of difficulty', 'unable to do/limits activity'. The individual should be instructed to tick one answer that best matches how they feel.

It is important to answer every question. There are no right or wrong answers. If the difficulty is not due to visual impairment and due to another reason, ask the individual to select 'no difficulty'.

If you are using the BIVI-IQ with the support of an interpreter, providing the interpreter with the concept elaboration report may allow for more accurate interpretation and translation.

Scoring the BIVI-IQ

The BIVI-IQ has been Rasch calibrated to allow an overall score to be reported and the score can be calculated with simple addition for clinical use. This overall score will be able to indicate the level of impact post brain injury visual impairment is having on an individual, where 0 is the best possible measured vision-related quality of life and 37 the worst.

A database is provided for entering BIVI-IQ results which will provide a traffic light output to indicate the areas which may require the focus of rehabilitation.

If using the BIVI-IQ for research purposes, the raw BIVI-IQ data can be entered into the look-up table which will provide both a logit value and a score converted back to the original scale from 0 to 37.

Both the Rasch scoring look-up table and database are available for download without cost at www.vision-research.co.uk.