**Brain Injury associated Visual Impairment Impact Questionnaire: development of a new patient-reported outcome measure.**

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**Introduction**

Despite the numerous patient-reported outcome measures (PROMs) currently available, a PROM with a specific focus on the impact of visual impairment following stroke was absent. The need for development of such a PROM was identified to capture the impact of post-stroke visual impairment.

**Methods**

A systematic review and qualitative in-depth interviews were used to source potential items. Consultation with stroke survivors and stroke orthoptists generated the initial pilot instrument. The pilots involved stroke survivors with visual impairment at acute and chronic stages, 37 completed version 1 and 243 completed version 2. The version 2 pilot analysis used the Rasch measurement model. The importance of version 2 items was assessed by Delphi survey. The Rasch measurement model analysis and Delphi survey informed a nominal group meeting and final consensus decisions.

**Results**

The construction of version 1 comprised of 102 items with 5 response categories measuring amount of difficulty. Floor/ceiling effects and not applicable responses in the version 1 pilot allowed item reduction. Version 2 comprised of 62 items. Alongside the Rasch and Delphi data, the expert panel developed rules which aided decision making. 43 items were removed and 7 items were combined to form 3 new items. The rewording of 3 items was also recommended.

**Conclusion**

This process resulted in a 15-item instrument with 4 response categories: the Brain Injury associated Visual Impairment Impact Questionnaire (BIVI-IQ-15), to capture vision-related quality of life for any of the predominant types of brain injury-related visual impairment, in the presence of other impairments and at any time point.