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Exploring domains and key items for a new paediatric vision screening index using qualitative interviews

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[Discover public health](#) • Article • [Open Access](#) • 2026 • DOI: 10.1186/s12982-026-02652-0

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Abstract

Early identification of visual problems in children is vital to prevent long-term developmental and educational challenges. Current vision screening approaches have gaps in assessing specific aspects of visual problems and a shortage of user-friendly, self-administered, and freely accessible tools. This study explores interview-based perspectives to inform the conceptualisation and development of items for a self-administered digital paediatric vision screening index. A qualitative design was adopted using semi-structured interviews with twenty participants: nine paediatric vision care experts, six parents of children aged 4–12 with diagnosed visual problems, and five children aged 10–12 with diagnosed visual problems. Participants were recruited through purposive sampling. The interviews were conducted using a pre-developed interview guide, transcribed verbatim, and analysed using thematic analysis in Atlas.ti version 24. A hybrid deductive-inductive approach was applied, allowing themes to emerge while mapping them onto pre-identified domains of vision problem indicators. Thematic analysis identified four core conceptual domains: reduced vision

Detailed information

Bibliographic information

Document type	Article
Open access	Gold
DOI	10.1186/s12982-026-02652-0
EID	2-s2.0-105046460211
Original language	English
Publication date	December 2026
PubMed ID	
Source type	Journal
ISSN	30050774
Publisher	BioMed Central Ltd
Publication year	2026
Source title	Discover public health
Volume	23
Issue	1
Article number	1255

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