

# Mari Jones



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## Entry details

Main Contact Author Full Name including title (Prof, Dr, Ms etc) | Dr Mari Jones

Main Contact Email | mari.jones@swansea.ac.uk

Main Contact Job Title | Research Officer

Main contact place of work /department and university | Swansea Centre for Health Economics, Swansea University

### Main contact short bio

| Mari is a health economist and statistician who conducted the analysis in this presentation

Area (Health Board or CCG areas and country in which this research was conducted) | Cardiff and Vale University Health Board

### Key words:

| PREM, validation, quantitative

### Funding & commercial relationships

| Cardiff University, HCRW, Welsh European Funding Office.

### Collaborators

| Accelerate, <https://lshubwales.com/innovation-support/accelerate-wales>  
Optometry Wales, <https://www.optometrywales.org.uk/>  
Optometric Practice Staff in Cardiff and Vale University Health Board  
Mr Gareth Bulpin, National architect eye care digitisation, NHS Wales  
Mrs Sian Jones, Public Involvement Volunteer

I am happy for our presentation at the symposium to be recorded and made available for attendees and others to view | ✓

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## Submission questions

### Title of presentation

Preliminary exploration of the validity of a patient-reported experience measure for eye care services

### Abstract, must include the following four headings: Purpose, Methods, Results, Conclusions

#### Purpose

The measurement of patients' experiences and perceptions is central to the development and improvement of patient-centred healthcare and informing decisions about how best health and care resources may be utilised for patient benefit. Patient Reported Outcome Measures (PROMs) and Patient Reported Experience Measures (PREMs) are used to inform decisions relating to changes in services. However, a validated PREM tool does not currently exist for eye care services. This work aimed to explore the psychometric properties of the Eye Care PREM as part of its continuing development.

#### Methods

Patient experiences of community-based optometric services were assessed using the Eye Care PREM. Responses to the PREM were evaluated using statistical analyses which followed conventional psychometric assessment using the principles of classic test theory.

#### Results

PREM responses from 466 individuals were assessed. The majority of questions had a low level of missing data (<10%). Good internal consistency was demonstrated (Cronbach's alpha 0.81) and was improved (0.88) by excluding two questions on appointment scheduling. Exploratory factor analysis indicated two underlying factors, communication, and care, giving a Cronbach's alpha value of 0.84.

#### Conclusions

Our data provide evidence for the reliability and validity of the Eye Care PREM questionnaire. It is appropriate for use with individuals attending eye care services. As a result of the current analysis, the Eye Care PREM was modified to provide consistent scale measures to support further psychometric validation using Rasch analysis in a prospective study.

## Authors & affiliations

**Dr, Angharad, Hobby**, Hospital optometrist, Cwm Taf University Health Board, Angharad is an optometrist and researcher. She completed her PhD at City, University of London and her two post-doctoral positions at Cardiff University. Her research interests include public health and clinical eye care, angharadhobby@hotmail.com

**Dr, Jennifer, Acton**, Senior Lecturer, School of Optometry and Vision Sciences, Cardiff University, Jennifer is an optometrist and Senior Lecturer at Cardiff University. She completed her PhD at Aston University and postdoctoral fellowships at Columbia University and New York University. Her research interests include clinical and public health research related to eyecare., actonj@cardiff.ac.uk

**Dr, Pippa, Anderson**, Health Economist, School of Optometry and Vision Sciences, Cardiff University, A health economist with a research interest in resource allocation and evaluation and implementation of eye health and care services, drpippaanderson@gmail.com

**Mrs, Sharon, Beatty**, Optometric advisor, Cardiff and Vale University Health Board, Sharon oversees the Eye Health Examination Wales training and accreditation programme. In 2019, she joined Cardiff and Vale University Health Board as optometric advisor becoming involved in the national digitisation programme and implementation of new enhanced shared care services in primary care optometry., sharon.beatty2@wales.nhs.uk

**Dr, Mark, Davies**, Clinical Research Fellow and Senior Lecturer, Faculty of Life Sciences and Education, University of South Wales, Mark has extensive experience as an ophthalmic clinician and professional educator. Mark's research interests lay

predominantly in the application of Realist Review & Evaluation methodology across health and social care.,  
mark.davies1@southwales.ac.uk

**Prof**, Deb, Fitzsimmons, Professor, Swansea Centre for Health Economics, Swansea University, Deb has expertise in Health Economics and patient reported outcome measures (PROMs) with oversight of the psychometric analysis conducted.,  
d.fitzsimmons@swansea.ac.uk

**Prof**, James, Morgan, Professor in Ophthalmology, Consultant Ophthalmologist, School of Optometry and Vision Sciences, Cardiff University, Professor of Ophthalmology with expertise in clinical informatics and electronic patient record development and implementation, morganje3@cardiff.ac.uk

**Prof**, Rachel, North, Professor of Ophthalmology, School of Optometry and Vision Sciences, Cardiff University, Rachel's research interests include the early detection and management of glaucoma and diabetic retinopathy and the evaluation of pathfinder eyecare services in community optometry., north@cardiff.ac.uk

**Ms**, Rhianon, Reynolds, Consultant Ophthalmologist, Aneurin Bevan University Health Board, Rhianon is a consultant ophthalmologist who also trained as an optometrist and hence has a unique understanding of eye care pathways which is invaluable. Medical retina including nAMD is her specialty area of practice & research, rhianon.reynolds@wales.nhs.uk

**Prof**, Barbara, Ryan, Professor of Optometry, Primary Care Optometrist, School of Optometry and Vision Sciences, Cardiff University, Barbara works part time in primary care optometry in Aneurin Bevan University Health Board and is a Professor of Optometry at Cardiff University. Barbara Chairs the Welsh Optometric Committee., ryanb@cardiff.ac.uk

**Prof**, Carolyn, Wallace, Professor of Community Health and Care Services, Faculty of Life Sciences and Education, University of South Wales, Carolyn's research expertise lies within qualitative methodologies and mixed methods including integrated consensus methods such as Group Concept Mapping, Realist Evaluation, Phenomenology and Action Research,  
carolyn.wallace@southwales.ac.uk

**Dr**, Mari, Jones, Research Officer, Swansea Centre for Health Economics, Swansea University, Health economist and statistician responsible for analysing the PREM data, mari.jones@swansea.ac.uk

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