

"Fibromyalgia and quality of life: Mapping the revised fibromyalgia impact questionnaire to the preference-based instruments"

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Background: The revised version of the Fibromyalgia Impact Questionnaire (FIQR) is one of the most widely used specific questionnaires in FM studies. However, this questionnaire does not allow calculation of QALYs as it is not a preference-based measure. The aim of this study was to develop mapping algorithm which enable FIQR scores to be transformed into utility scores that can be used in the cost utility analyses. **Methods:** A cross-sectional survey was conducted. One hundred and 92 Spanish women with Fibromyalgia were asked to complete four general quality of life questionnaires, i.e. EQ-5D-5 L, 15D, AQoL-8D and SF-12, and one specific disease instrument, the FIQR. A direct mapping approach was adopted to derive mapping algorithms between the FIQR and each of the four multi-attribute utility (MAU) instruments. Health state utility was treated as the dependent variable in the regression analysis, whilst the FIQR score and age were predictors. **Results:** The mean utility scores ranged from 0.47 (AQoL-8D) to 0.69 (15D). All correlations between the FIQR total score and MAU instruments utility scores were highly significant ($p < 0.0001$) with magnitudes larger than 0.5. Although very slight differences in the mean absolute error were found between ordinary least squares (OLS) estimator and generalized linear model (GLM), models based on GLM were better for EQ-5D-5 L, AQoL-8D and 15D. **Conclusion:** Mapping algorithms developed in this study enable the estimation of utility values from scores in a fibromyalgia specific questionnaire. © 2017 The Author(s).

15D

AQoL-8D

EQ-5D-5 L

SF-6D

adult

age

aged

Article

cost utility analysis

cross-sectional study

female

fibromyalgia

Fibromyalgia Impact Questionnaire

human

major clinical study

measurement precision

quality of life

quality of life assessment

regression analysis

statistical model

very elderly

algorithm

fibromyalgia

middle aged

psychology

quality adjusted life year

questionnaire

Spain

Adult

Aged

Algorithms

Cross-Sectional Studies

Female

Fibromyalgia

Humans

Linear Models

Middle Aged

Quality of Life

Quality-Adjusted Life Years

Spain

Surveys and Questionnaires