Abstract #542

The Impact of Health Literacy on Utilization of PFDI-20 and PFIQ-7

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**ABSTRACT**

Approximately one-third of the U.S. population has basic or below basic health literacy skills and only 12% possess proficient health literacy. (1) Studies have shown that lower health literacy is often associated with poor health outcomes and poor compliance with care plans. (2) Pelvic floor disorder questionnaires are commonly utilized in urogynecology for clinical care and research to identify and track patients’ symptoms over time. Our aim was to evaluate the performance of two commonly used measures, Pelvic Floor Distress Inventory—Short Form 7 (PFDI-20) and Pelvic Floor Impact Questionnaire—Short Form 7 (PFIQ-7), in a low health literacy population.

**METHODS**

Readability Assessment
• Sentence, word, and syllable counts were evaluated to assign a U.S. grade level to each form using:
  - Flesch-Kincaid Grade Level Calculator
  - SMOG Readability Formula
  - Fry Graph Readability Calculator
  - FORCAST Readability Formula

Expert Assessment
• PEMAT: Patient Education Materials Assessment Tool for Printable Materials
  - Evaluated understandability, actionability
  - ELF-Q: Evaluative Linguistic Framework for Questionnaires
  - Evaluated context, structure, and quality

Focus Group Assessment
• Female participants selected to include those with low health literacy and age ranges reflective of the institution’s urogynecology population.
  - Participants individually evaluated each form using the Stop Light Coding method. (3)
  - Participants revealed their impression of each form’s organization, readability, and actionability in a facilitator prompted open discussion.
  - Participants rated each form (1-10, best).

**RESULTS**

Readability Assessment
• Scores are presented in Table 1.
  - PFIQ-7 requires a higher reading level.

Expert Assessment
• PEMAT:
  - Purpose: unclear
  - Format: confusing
  - Language: unfamiliar medical jargon and difficulty distinguishing between ‘somewhat’ and ‘moderately’

  - ELF-Q
    - Lack detailed instructions and clear purpose.
    - Lack organization and clear question flow.

Focus Group Assessment
• Demographic Information
  - 9 English-speaking, African American females
  - Median age group was 41-60 years (range <40 to >80 years)
  - Majority had low health literacy (8/9)

• PFDI-20 (avg rating of 5.4/10)
  - Felt instructions were clear
  - Had trouble understanding many questions due to unfamiliar terms
  - Disliked format and length

• PFIQ-7 (avg rating of 8.0/10)
  - Understood most of the questions.
  - Liked the table format.
  - Recommended assistance with form completion from clinical staff for both

**CONCLUSIONS**

- Knowledge of potential barriers to understanding and completion of forms may improve utilization of PFDI-20 and PFIQ-7 in women with low health literacy.
- Assistance with form completion, either from clinic staff or research team members, is acceptable to and may improve quality of data in respondents with low health literacy.

**REFERENCES**


Table 1

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