Quality of life in endometriosis: translation and psychometric evaluation of the French version of Endometriosis Health Profile-30

Abstract ID: 1757
Nom de la catégorie: SEUD CONGRESS
Typologie: Poster
Statut: validé
Autorisation de diffusion: Yes/Oui

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Introduction
The health-related quality of life (HRQoL) of women with endometriosis is a growing concern, increasingly voiced by health professionals and patients. A well-validated instrument is needed to accurately and reliably measure HRQoL in this patient population. No validated endometriosis-related questionnaire was available in French. The objectives of our study were to validate the French translation of the EHP-30 and to evaluate its psychometric properties.

Patients and methods
After having translated EHP-30 in accordance with guidelines, we released the questionnaires on an online platform. Then the link was sent using social networks (Facebook) and patients association Endo-France. For concurrent validity, we used the SF-36 that has been already validated in French and recommended for endometriosis. The two questionnaires were self-administered and filled out electronically. Demographic characteristics of the patients were also recorded.

Results
1156 women filled out the both questionnaires (SF-36 and EHP-30), 913 patients with confirmed histological diagnosis of endometriosis were finally included. We studied psychometric properties: reliability and construct validity-factor analysis, relationships between items and scales, internal consistency, concurrent validity.

Our results showed very good acceptability, with response rates superior to 90 %. Exploratory factor analysis extracted 11 factors providing a multidimensionality structure, and all the loadings were > 0.4. Good internal consistency (Cronbach’s alpha ranging from 0.72 and 0.96) was also demonstrated. There were no floor and ceiling effects, except for the dimension “Infertility” (22.4%). Concurrent validity with the SF-36 showed strong expected correlations.

Conclusion
The present study showed that the French version of the EHP-30 is an understandable, reliable, and valid instrument for the measurement of HRQoL in women with endometriosis. The use of social networks allowed a quick and large collection of data. We obtained a good correlation between the two scores, confirming the reliability of EHP-30 in a large population. Our methodology of validation of EHP-30 in a foreign language is easily transposable for any languages.

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Mots clefs: Quality of life, Endometriosis, Psychometric properties, EHP-30, SF-36
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