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Greek version of MVOOLI - 15: Translation and cultural adaptation

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Abstract

Background: The Missoula-Vitas Quality-of-Life Index (MVQOLI) is a unique tool specifically designed to measure quality of life (QOL) in advanced illness in a palliative care setting.

Objective: The objective of this study was to translate and make the cultural adaptation of the Greek version of the MVOOLI-15R.

Methodology: The study counted with a sample of 10 patients undergoing in - centre haemodialysis. The process involved the following steps of translation back translation and semantic evaluation.

Results: The former revealed good acceptance of the translated version of the instrument, which participants considered having items of easy understanding.

Conclusions: After completing the process of validation in the country, the instrument will become available to Greek researchers to measure health-related quality of life, as well as to compare results from Greece to that of other cultures in which the instrument has already been validated.

Key Words: Translation, cultural adaptation, dialysis, kidney disease, quality of life

Introduction

There has been plenty of interest in quality of life (QOL) lately. Despite the lack of consensus about its definition, it can be understood as satisfaction or happiness with laboratorial responses to interventions, life in view of the domains the person enlarging the scope of therapeutical results. considers important (Theofilou, in press). As In 1990, the World Health Organization for health - related quality of life (HRQOL), it emphasized that the ultimate goal of palliative is considered a health indicator that assesses a care is achievement of the best QOL for physical condition, person's general functional ability, housework activities, social interactions, cognitive function and emotional condition in relation to his/her health status measure in terminal care because it is focused (Theofilou, in press). HRQOL measurement on what happens to the patient, measuring the instruments can facilitate clinical decision effect of physiological change rather than making, assess care quality, estimate a population's health service needs and Although there is no recognized gold standard understand the causes and consequences of for measurement of QOL (Spitzer, Dobson & health problems (Theofilou, in press). The Hall et al., 1981), over the past decades, two

impact of diseases on the physical health, in the work performance and its implications on the familiar and personal life increase the treatment context. Thus, improvements in the OOL become as important as the clinical – patients and their families (Hiller, 1988). Clinch and Schipper (1993) have suggested that QOL is the most appropriate outcome only the fact of physiological change. classes of complementary health status > measures have emerged to fill this measurement of actual status or circumstance information gap - objective measures of (What it is.) Example: I feel sick all the time. functional health status and subjective > measures of health and well – being (Cella, acceptance or mastery of actual circumstance 1994). Various QOL measurement tools have (How much does it bug you?) Example: I am been designed but most may not be ideal for satisfied with current control of my use in palliative care patients, whose QOL symptoms. assessment should focus on areas for which \succ palliative care is most effective, such as given dimension has an impact on overall psychosocial and spiritual problems (Cohen & QOL (How much does it matter?) Example: Mount, 1992; Byock & Merriman, 1998).

In response to the need for a QOL measure opportunity for enjoyment. that assesses the individual experience of Each dimension is defined by the patient's people nearing the end-of-life (EOL), Byock perception and/or experience - not the and Merriman (1998) created the Missoula - "judgment" of caregivers (family VITAS Quality of Life Index (MVQOLI). professional). The definitions The MVQOLI is an assessment instrument dimensions and examples of items for each that gathers patient - reported information response category are shown below. about QOL Maintaining optimal QOL is a core goal of discomfort associated with progressive palliative and hospice care, and information illness; perceived level of physical distress. gathered via the MVOOLI assists health care (A) 1. I feel sick all the time. professionals in identifying and addressing (S) 2. I am satisfied with current control of patient concerns that affect QOL. The my symptoms. MVQOLI has been used in many different (I) 3. Physical discomfort overshadows any healthcare settings including hospital, home health, long-term care Function - perceived ability to perform (including assisted palliative care, disease management and pre- living, experienced in relation to expectations. hospice programs (Byock, 1996).

The framework of the MVQOLI is based on things I like to do. Ira Byock's work regarding growth and (S) 5. I accept the fact that I cannot do many development at the end of life and the of the things that I used to do. concepts of landmarks and tasks of life (I) 6. My contentment with life depends upon closure (Byock, 1996). The MVQOLI asks being active and being independent in my patients about 5 dimensions or domains of personal care. QOL: symptoms, function, interpersonal, Interpersonal - degree of investment in well-being and transcendence. The instrument personal relationships and the perceived is specifically designed to assess the patients quality of one's relations with family and personal experience in each of these friends. dimensions, hence the MVQOLI items are (A) 7. I have recently been able to say constructed with highly subjective language important things to the people close to me. and no scores appear on the version of the (S) 8. At present, I spend as much time as I tool seen by patients. The tool seeks to want with family and friends. describe the qualitative and subjective (I) 9. It is important to me to have close experience of QOL in a way that can be personal relationships. quickly interpreted by professional caregivers Well-Being - self-assessment of an internal (Theofilou, 2012).

information are gathered from respondents in of contentment with self. order to illuminate their overall experience:

Assessment (A) _ subjective

Satisfaction (S) degree of

Importance (I) - degree to which a Physical discomfort overshadows anv

or for the

during advanced illness. Symptoms - experience of the physical

hospice, opportunity for enjoyment.

living), outpatient accustomed functions and activities of daily

(A) 4. I am no longer able to do many of the

condition; subjective sense of emotional Within each dimension, three kinds of "wellness" or "disease"; contentment or lack

> (A) 10. My affairs are not in order; I am worried that many things are unresolved.

(S) 11. I am more satisfied with myself as a person now than I was before my illness.

(I) 12. It is important to me to be at peace with myself.

Transcendent - experienced degree of connection with an enduring construct; degree of experienced meaning and purpose in life.

(A) 13. I have a better sense of meaning in my Note that the assessment and satisfaction life now than I have had in the past.

day is a burden.

has meaning.

recorded so that the lowest score always reflects the overall impact of that domain on indicated the least desirable situation and vice OOL. versa. The questions are general, which means • Negative dimensions are reducing QOL, that the MVQOLI provides information about • Positive dimensions are increasing QOL and the domains that detract from or augment the . The size of each dimension reflects the patient's QOL. The **MVQOL** incorporates a single item quality-of-life Most questionnaires used to evaluate the QOL status question, which was used to assess the were developed for English convergent validity of the MVQOLI-M populations. In consequence, they are rarely (Namisango, Katabira, Karamagi & Baguma, adequate in terms of correct translation or 2007).

There are two versions of the MVQOLI - 15 item and 25 item. The instrument was initially 1993). So, these questionnaires have to be designed with 25 items. Clinicians reported validated in order to be applied to the reality that the tool was too long for some patients to of each specific population. complete. Using data from the original study A literature review in PubMed/Medline of reliability and validity, a 15-item version revealed was constructed that has a correlation QOL/HRQOL measurement in nearing the coefficient of .93 with the 25-item version, EOL, the only tool specifically aimed at indicating that little information is lost when measuring the HRQOL of chronic disease only 15 items are used. The newest versions patients in advanced stages is the MVQOLI. of the tool included with this guide have been No studies are found on the translation and revised using simpler language and item cultural adaptation of instruments for formats to make it easier to use for both advanced disease patients in Greece. Given patients and staff.

program or manually. Its scoring protocol is culturally adapt the Missoula - VITAS designed to turn the qualitative subjective Quality of Life Index 15 item (MVQOLIexperience of the patient into quantitative 15R). information that can be easily interpreted by the care team. The unique scoring system has the advantage of revealing how much each This methodological research consists of the domain affects QOL. For example, efforts to make a patient comfortable may contribute HRQOL measurement instrument for chronic little to QOL if that domain is not important disease patients in advanced stages in Greece. to them. In addition, small changes in any domain may affect QOL a lot if that domain is Data collection very important to the patient.

The MVOOLI items are scored as follows:

Assessment	-2 to +2	
Satisfaction -4 to +4		
Importance	1 to 5	
(Assessment + Satisfaction) X Importance		
=		
QOL in each dimension		

scores can range from -6 to +6 and indicate (S) 14. Life has lost all value for me; every whether the patient assess his/her situation positively or negatively. When multiplied by (I) 15. It is important to me to feel that my life the importance factor, the overall dimension score is magnified by how important that Each item uses a five-point Likert scale domain is. The final score in each dimension

also amount of impact.

speaking

correspondence to the reality of other countries (Guillemin, Bombardier & Beaton,

that. among instruments the lack of this type of instrument in Greece, The MVQOLI can be scored using an EXCEL the present research aimed to translate and

Method

translation and cultural adaptation of a

A sample of 10 patients undergoing in - centre haemodialysis (HD) was recruited from a Athens. Selection criteria included:

1. > 18 years of age

Ability of communication in Greek 2. 3. disease (CKD)

4 perceived ability

The rate of response was very high, reaching cultural adaptation of instruments, made two 100%. Thus, the total sample includes all independent forward translations and two patients with a mean age of 58.4 years \pm independent backward translations. The final 13.06. Participants were Greek adults having version was independently reviewed and signed a consent form for participation. All translated by a bilingual health psychologist subjects had been informed of their rights to without previously seeing the original refuse or discontinue participation in the study MVQOLI. The back translated version had according to the ethical standards of the very close concordance with the original Helsinki Declaration. Ethical permission for MVQOLI, as verified by a professional the study was obtained from the scientific linguist fluent in both the English and Greek committee of the participating hospital.

Table 1. Characteristics of the sample.

	HD	
	N=10	
Age (M±SD)	(58.4 ±13.06)	
Gender		
Male	6	
Female	4	
Total	10	
Marital status		
Single	1	
Married	6	
Divorced	1	
Widowed	2	
Total	10	
Education		
Elementary	1	
Secondary	7	
University	2	
Total	10	
Length of HD	(6.38±5.41)	
treatment in years		
(M±SD)		

Translation and back translation of the **MVQOLI**

Adaptation and translation of the MVQOLI was done according to the criteria for translation and adaptation of generic healthrelated OOL measures (Bowden & Fox-Rushby, 2003).

General Hospital in the broader area of The MVQOLI-15R version was translated from the source language (English) to the target language (Greek). Translation was done according to the guidelines for adapting Diagnosed with chronic kidney instruments in multiple languages and cultures (Hambleton, 2000). Translators who Satisfying level of cooperation and were conversant with both the source and target languages, and had skills in crosslanguages. A social scientist conversant with both languages carried out the final step of smoothing out the language. This involved editing the target language version of the instrument in a consistent writing style. This helped to ensure that patients could easily understand the modified version of the MVQOLI. A HRQOL expert reviewed the final instrument to check for omissions.

Semantic validation of the MVQOLI

Next, semantic validation was carried out, which serves to verify the understanding of existing MVQOLI items by interviewing the respondents. This phase aimed to identify problems related to the research subjects' understanding and acceptance of the terms. For this phase of the cultural adaptation process, all 10 HD patients answered the MVQOLI-15R as well as the General Impression Instrument.

Results

As mentioned, 10 HD patients participated in the semantic validation phase, without any refusals. The goal of this study phase was to identify possible problems to understand the instrument's items and answer categories, with a view to adjusting terms for adaptation to the Greek culture if necessary. Therefore, an interview was held, in which patients, who agreed to participate in the study after receiving information, signed two copies of the Informed Consent Term (ICT) and answered the above mentioned forms. The analysis of answers to the General Impression

instrument revealed that, in general, the Patients suffering from Chronic Kidney participants accepted well the MVQOLI-15R Disease (CKD) have to cope with many and found it easy to understand. In total, adversities, 90.0% of the patients considered the limitations in food and fluid intake, changes instrument very good, and items were found in their body image, work and economic relevant, easy to understand and with status, social roles, activity levels, self appropriate alternative answer categories for image, health status and normal routines, the chronic condition under analysis. The while their control over treatment cannot results are displayed in Table 2.

Discussion

with chronic conditions was assessed in terms patients' life and physical as well as social of survival and signs of presence of the functioning, leading them to reconsider their condition. Today, this panorama has changed personal and professional goals within the and, besides the impact of symptoms and context of living with a chronic illness treatment, the people's physical, emotional (Theofilou, and psychosocial aspects started to be valued Theofilou, Synodinou & Panagiotaki, in press (Clinch & Schipper, 1993). Due to the greater b). need and importance of QOL/HRQOL in recent decades, construction, instruments for patients in advanced stages of cultural adaptation and validation processes of their disease and, today, there is no specific instruments aimed as measuring subjective instrument for use in Greece. Hence, an constructs has increased exponentially (Hiller, instrument was needed for this population. 1988), permitting result comparisons in Therefore, in this study, internationally multicenter studies (Hiller, 1988).

 Table 2. Assessment results for the General
Impression part of the semantic validation phase of the MVQOLI-15R instrument

Items from the		Answer%
General	Alternative	HD
Impression	answers	patients
Instrument		(n = 10)
What did you	Very Good	90.0
think about our	Good	10.0
questionnaire in		
general?		
Are questions	Easy to	90.0
understandable?	understand	10.0
	Sometimes	
	difficult	
About the	No	100.0
answer	difficulty	0.0
categories?	Some	
Did you have	difficulties	
any difficulties?		
Are the	Very	90.0
questions	relevant	10.0
important for	Sometimes	
your health	relevant	
condition?		

physical e.g. symptoms. always be predicted (Theofilou, 2012a; Theofilou, in press a; Theofilou, Synodinou & Panagiotaki, in press b; Theofilou, 2012b). In initial research, the QOL of people living Such constraints are expected to affect the 2011: Theofilou. 2011a:

> measuring There are few QOL/HRQOL measurement adopted procedures were followed for the cultural adaptation and validation of instruments to measure subjective constructs.

In this context, the introduction of methods like HRQOL assessment in clinical practice permits comprehensive knowledge on the subject's condition, in which HRQOL measurement instruments are aspects for consideration in clinical studies that assess the effect of new treatment modalities and their possible impact on participants' QOL, besides the objective data expected in a clinical trial. In this sense, some authors have highlighted the importance of measuring QOL and establishing it as an outcome indicator in health programs and interventions, beyond research (Clinch & Schipper, 1993; Theofilou, in press).

Every day, health professionals interact with patients who go through situations of anxiety and discomfort due to chronic conditions. The responsibility to relieve symptoms demands the assessment of physical, physiological, emotional, behavioral and environmental aspects that influence the patient's condition. Thus, in clinical medicine, QOL assessment instruments need to be used as indicators to direct actions with a view to comprehensive care delivery.

process of the MVQOLI-15R, in the semantic part. HD patients self-applied the instrument, followed by an interview, during which the Hambleton RK, (2000). ed. Issues, designs and technical understanding and acceptance of the terms deriving from the translation process were verified. As a result, 90.0% of them Commission. Hiller R. (1988). Palliative medicined anew specialty. considered the items easy to understand and the answer categories adequate, providing Namisango E., Katabira E., Karamagi C., & Baguma P. answers without any difficulty.

permitted multidisciplinary This study contact, involving statisticians, physicians, and psychologists, which nurses fundamental for the cultural adaptation process of an instrument that serves to measure a subjective health-related construct. As this instrument is directed at chronic patients in advanced stages, different professionals' involvement permitted greater knowledge on the several aspects involved.

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