Reliability and validity of the Canadian Occupational Performance Measure for clients with psychiatric disorders in Taiwan

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ABSTRACT: The purpose of the study was to examine the reliability and validity of the Canadian Occupational Performance Measure (COPM) in Taiwanese clients with psychiatric disorders. The COPM was translated into Mandarin and tested on 141 Taiwanese clients. The average age of the clients was 35.6 years; 94% were diagnosed with schizophrenia. The results of the study showed that the test–retest reliability of the COPM was $r = 0.842$. The COPM identified occupational performance problems that included self-care (37%), productivity (25%), and leisure occupations (20%). Fifty percent of the therapists were receptive in adapting the client-centred approach and applying the COPM in their clinical practice. It was concluded that the COPM can be applied reliably to Taiwanese clients. Furthermore, the COPM was valuable in identifying information related to occupational performance that could not be identified elsewhere. Since 50% of the therapists felt reluctant about the appropriateness of the client-centred approach in their culture, it was important to examine the gap between clients’ judgements and actual performance, as well as to evaluate the feasibility of the client-centred concept in clinical practice. Finally, the concept of the client-centred approach needs to be disseminated and communicated to the occupational therapy profession in order that the COPM can be adequately applied in mental health practice.

Key words: client-centred practice, test reliability of COPM, cross-culture research
Introduction

Occupation or purposeful activity as a therapeutic agent or outcome, has been a unique aspect of the occupational therapy profession (Fisher, 1998; Kielhofner, 1997; Neistadt and Crepeau, 1998). In clinical practice the evaluation of the occupational performance of clients is used to attain information on the client’s capacity to perform occupational tasks (Cottrell, 1996; Zemke and Clark, 1996). In the past decade standardized assessments have been developed to assess the functional performance and skill deficits of clients (Asher, 1996; Fisher, 1997; Margolis et al., 1996). When clinicians utilize such objective measures to elicit data for treatment planning, they often find there is a discrepancy between the identified therapeutic goals and the client’s goals (Law et al., 1998). As a result, clients may be reluctant to participate in the planned intervention. Therefore, utilizing an appropriate measure to evaluate both objective and subjective aspects of a client’s occupational performance is crucial for designing an effective treatment programme (Baron et al., 1999).

A national survey of the assessments used in mental health occupational therapy units in Taiwan showed that the instruments used in clinical practice need to be convenient, flexible, evidence-based, and client-centred (Hsiao et al., 2000). The convenience and flexibility of the test pertain to its clinical utility, whereas the evidence-based focus refers to the immediate need of the profession to demonstrate the effectiveness of the intervention (Asher, 1996; Eakin, 1989; Early, 2002). The client-centred approach, which can be traced back to the profession’s tradition, focuses on the collaboration of clients, respect for clients’ perspectives on their own problems and empowering clients to be able to change (Kielhofner, 1997; Kusznir and Scott, 1999). The early origin of the profession – moral treatment – centred on the idea that clients have the right to be respected and participate in normal activities. By providing opportunities for them to engage in occupations, clients with psychiatric disorders were able to participate in society (Early, 2002). A client-centred approach in therapy would enhance the motivation of clients to participate, would promote the therapeutic relationship, and facilitate optimal treatment effect (Kusznir and Scott, 1999; Kielhofner, 2002).

The literature suggests that individuals with psychiatric disorders typically present with pervasive functional deficits (Bonder, 1995). Deficits in occupational performance include problems in the sensory-motor and cognitive areas; psychosocial integration; low energy levels; decreased muscle strength; decreased endurance; short attention span; limited abilities to initiate activities; and inability to solve problems encountered in performance (Kay and Tasman, 2000; Gelder et al., 1998; Bonder, 1995; Kannenberg, 1997). The impact of these deficits on occupational performance deserves special attention from occupational therapists. Since occupational performance (self-care, work, and leisure tasks) is the unique focus of occupational therapists (Fisher, 1997; 1998), the current study
focused on validating the use of the COPM in measuring occupational performance of clients with psychiatric disorders.

The COPM appears to meet the needs for assessing the client’s perspectives on his or her performance and for generating quantitative data for outcome comparison (Law et al., 1998). The COPM is an individualized outcome measure to assess the perception of client’s occupational performance and satisfaction with that performance (Pollock et al., 1999). Many researchers have documented the psychometric qualities of the COPM, demonstrating that it is a valid and reliable tool to use for clients in various diagnostic groups (Carpenter et al., 2001; Chan and Lee, 1997; Cup et al., 2003; Law et al., 1994; Ripat et al., 2001; Sewell and Singh, 2001). In these studies, the validity of the COPM was verified through concurrent validity with assessments such as the General Assessment Scale, the Satisfaction with Performance Scaled Questionnaire, Reintegration to Normal Living Index, Life Satisfaction Questionnaire, Perceived Problems List, etc. (Chan, 1996; McColl et al., 2000). The findings showed that the problems identified by the COPM were consistent with those identified by other instruments (Veehof et al., 2002; van Meeteren et al., 2000; Cup et al., 2003).

The reliability of the COPM was examined in a test–retest study, and internal consistency in groups of clients with physical or mental disabilities (Cup et al., 2003; Sewell and Singh, 2001). Other types of studies used the COPM as an outcome measure to document the effectiveness of clinical intervention. The intervention types included specific modalities for children with disabilities (Stewart and Neyerlin-Beale, 2000; Tam et al., 2002; Davis et al., 1999), specific independence programmes for young clients with physical disability (Healy and Rigby, 1999), treatment targeted at improving the motor functions of clients with cerebral palsy (Reid et al., 1999), and focusing treatment on the elderly population (Richardson et al., 2000). Some researchers applied the COPM to elicit responses from clients with disabilities in order to understand their needs in the areas examined (Tryssenaar et al., 1999; Pollock and Stewart, 1998; Packer and Xiaoping, 1997). Most of the studies confirmed that by using the COPM in research and clinical practice, clinicians are better able to detect the occupational problems of clients, to ensure treatment is client-centred, and to improve the level of satisfaction with specific treatment. Since the introduction of the COPM in Taiwan in 1999 there has been no study of its reliability, validity, and utility. The purpose of this study, therefore, was to test the reliability and clinical utility of the COPM in a group of clients with psychiatric disorders in Taiwan.

The research questions raised in this study were:

1. Do occupational therapists find the COPM to be useful for Taiwanese clients with psychiatric disorders?
2. What are the occupational performance problems identified by clients with psychiatric disorders in Taiwan?
3. Is COPM reliable with Taiwanese clients with psychiatric diagnoses?
Methods

Instrument

Permission to translate the COPM was obtained from the authors. Part of the manual was translated into Mandarin by a professional occupational therapist and was checked to ensure its readability and adequacy by two other research assistants. It was also back translated into English by a bilingual psychologist to ensure the meanings of the words matched.

Subjects

A total of 141 subjects with psychiatric disorders were recruited to participate in the study. They were from a psychiatric institute and a university-affiliated hospital in the northern part of Taiwan. The subjects came from a variety of treatment units of acute, sub-acute, chronic, rehabilitation and psychosomatic wards. Fifty-eight percent of the subjects were male; mean age was 35.6 years (SD = 9.3), with ages ranging from 17 to 62; 94% of the subjects were diagnosed as having schizophrenia (see Table 1).

Procedures

The subjects were tested by their occupational therapists on the COPM and retested either within two weeks (for those clients who resided in acute and sub-acute settings) or at one month (for those clients who resided in a rehabilitation or chronic patient unit). Before administration of the COPM, each rater attended a three-hour administration training and learning session in order to ensure accurate administration of the test.

Results

The results of the study are presented according to the three research questions posed.

Can the COPM be usefully applied to Taiwanese clients?

These data were analysed through descriptive data provided by the therapists who participated in the study. Thirteen therapists completed the user survey. The mean age of the therapists was 26.7 years (SD = 5.8); mean length of experience working as an occupational therapist was 3.15 years (SD = 4.6); 77% of the therapists in the study had a bachelor's degree and 23% had a post-graduate degree. It took an average of 23.6 minutes (SD = 6) to administer the COPM and 13.4 minutes (SD = 4.6) for the retest. The level of difficulty for administering the COPM was investigated using
a 7-point rating scale where 1 means difficult to administer and 7 means easy. The average level of difficulty was 3.8. The level of difficulty in rating the importance of the COPM problems was 4.6; for rating the performance of the COPM problems 3.9, and for the level of difficulty in rating the satisfaction with the client's performance 3.9. When therapists were asked for their thoughts about the client-centred approach, 50% of them accepted it as an appropriate tool for working with clients, while the remainder felt reluctant to adapt it into clinical practice. As a result, 50% of the respondents were willing to apply the COPM in a clinical setting and the rest indicated they would consider using it in the future. In addition, therapists raised several concerns and made comments about the use and clinical indications for the COPM:

1. Clients with psychiatric disorders may have cognitive deficits, which impede their decision-making abilities to select appropriate ratings.
2. Some of the problems identified by the clients were hard to classify into appropriate occupational performance areas. One example was the 'ability to make decisions', it may fit into any category depending on the problems to be solved.
3. The perceived problems of the clients differed from those identified by the therapists. The therapists were concerned that the clients may make inaccurate judgements due to poor reality testing.
4. Some of the problems raised by the clients could not be solved immediately. One example was a client's request for a staff change or staff transferring to another ward.
5. Some occupational performance components were not identified by the COPM.
6. On a positive note, the use of the COPM enabled therapists to explore occupational performance problems that could not be discovered in other ways.
7. Therapists indicated that by involving clients in the COPM process, they were better motivated to participate in their own treatment planning.

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<th>Table 1 Demographics of the subjects</th>
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<tr>
<td>Variable (n = 141)</td>
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<td>Age</td>
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*including bipolar disorder, obsessive–compulsive disorder and depressive disorder
What were the occupational performance problems identified by the clients with psychiatric disorders? Is the COPM valid in identifying related occupational performance problems?

According to the results of the study, the average number of identified COPM problems was 3.3 (minimum 1, maximum 6). The researchers classified the identified COPM problems into five groups of occupational performance areas: (1) self-care, (2) work, (3) leisure, (4) social and (5) other activities. The results showed that 37% of the identified problems concerned self-care, 25% were work-related, 20% concerned leisure activities, and 12% related to social encounters. These results suggest that the COPM can identify all types of occupational performance problems.

Is the COPM reliable?

This question was examined by administering the COPM in a test–retest procedure with 86 clients diagnosed with psychiatric disorders. These clients were tested and retested either within two weeks or at one month according to the unit or setting they resided in. The intraclass correlation coefficients of the test and retest scores ranged from $r = 0.842$ for performance to $r = 0.847$ for satisfaction with performance.

Discussion

The results of the study support the clinical utility and reliability of the COPM as applied to Taiwanese subjects. While the participating therapists expressed concerns about the use of the COPM in clients with psychiatric disorders, they also found that the COPM provided relevant information for treatment planning. Furthermore, involving the clients in the COPM facilitates their motivation in the rehabilitation process. The issues raised by the therapists were similar to those raised by other researchers (Boyer et al., 2000; Chan and Lee, 1997; Kusznir and Scott, 1999) who proposed solutions such as being direct, communicating with clients about the incongruence, and being empathetic. They also confirmed the utility of the COPM in identifying essential issues of clients’ occupational needs and in facilitating client’s participation in the treatment process. Therefore, it would be beneficial to disseminate the client-centred approach to therapists in more depth and share with them the results of other research. For those therapists whose main concern was questioning the client’s judgement, Law et al. (1998) reported that, whenever therapists make judgements about clients, they need to be very careful not to impose certain value systems on them. In the case of personal conflicts, therapists should raise the issue and discuss it with clients. Sometimes, therapists found that clients’ problems could not be solved in the clinical setting. In this case, therapists should
inform clients about the limitations of the setting and may need to refer
them to other professionals.

Since the current study only focused on the utility of the COPM in a group
of clients with psychiatric disorders, especially those with schizophrenia, there
is a need to conduct further studies in clients with various diagnoses. The
validity of the COPM in identifying the essential occupational performance
problems of clients needs to be verified through the use of other validated
instruments. Lastly, an efficacy study in Taiwan on the use of the COPM as an
outcome measure would be possible following further evidence of the psychomo-
tic qualities of the COPM.

In summary, the COPM can be an effective way of identifying clients’ self-
perceived occupational performance problems. Involving clients in the
treatment process, as in the COPM, also provides incentives for clients to
actively engage in treatment. In order to assist therapists to utilize the COPM
in clinical practice, appropriate education and training of the client-centred
approach is necessary. Further studies are required to ensure that the COPM is
valid and reliable in Taiwanese clients with different diagnoses.

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