Development and Initial Evaluation of the Cyber-Counseling Objective Structured Clinical Examination (COSCE)

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What is This?
Development and Initial Evaluation of the Cyber-Counseling Objective Structured Clinical Examination (COSCE)

Lin Fang¹, Marion Bogo¹, Faye Mishna¹, Lawrence Murphy², Margaret F. Gibson¹, Valeska Griffiths¹, and Glenn Regehr³

Abstract
Objectives: This study developed and validated the Cyber-Counseling Objective Structured Clinical Examination (COSCE), a method and tool used to assess the competence level of trainees and professionals who practice cyber-counseling. Method: The COSCE's development involved the creation of a cyber-counseling performance rating scale and two simulated client scenarios, and the recruitment and training of three raters. The COSCE was tested on six masters of social work students and six seasoned cyber-counseling practitioners. Results: We examined the COSCE's internal consistency, interrater reliability, and interclient reliability. In addition, we assessed the construct validity through exploratory factor analysis and known-groups validation method. Conclusions: With further improvement, the COSCE can be a reliable and valid tool in assessing the competence of cyber-counseling practitioners.

Keywords
cyber-counseling, competence, asynchronous e-mail, reliability, validity

As cyber and information technology such as the Internet has become an increasingly pervasive presence in our everyday lives, the use of cyber-counseling (or e-therapy, e-counseling, online therapy, online counseling) has expanded (Barak, Klein, & Proudfoot, 2009; Chester & Glass, 2006; Emmelkamp, 2005). Aided by the advancements in technology, practitioners today can overcome the hurdles of scheduling and geographic restrictions, and reach out to clients who do not have access to or are uncomfortable with face-to-face mental health services (Centore & Milacci, 2008; Grubaugh, Cain, Elhai, Patrick, & Frueh, 2008; Mallen, Rochlen, & Day, 2005; Perle, Langsam, & Nierenberg, 2011). At their convenience, clients can contact a practitioner from any distance and receive counseling services in the forms of asynchronous e-mail or board messages, in which a lag exists between responses. Clients can also receive synchronous chat or videoconferencing, in which communication between client and practitioner happens in real-time at a scheduled time period (Barak et al., 2009; Mallen, Rochlen, et al., 2005).

Among different types of cyber-counseling, asynchronous e-mail is the most common form in use (Freeny, 2001; Perle et al., 2011; Rochlen, Zack, & Speyer, 2004). As set appointments are not required, asynchronous cyber-counseling is particularly accessible for people who are unable to commit to an appointment schedule (Mitchell & Murphy, 1998). Asynchronous counseling via e-mail also can facilitate greater expressiveness in clients who experience social discomfort when dealing with therapists face-to-face (Hanley, 2009; Mora, Nevid, & Chaplin, 2008). Moreover, the anonymity and lack of visual contact has a disinhibiting effect, which can lead to greater self-disclosure and self-reflection relative to face-to-face counseling (Freeny, 2001; Rochlen et al., 2004). Clients who engage in asynchronous cyber-counseling go through a contemplative writing process concerning their issues. This text-mediated therapy process can be therapeutic in and of itself (Murphy & Mitchell, 1998), and may enhance a sense of emotional containment as the client can set the parameters of self-disclosure (Suler, 2000). In addition, both clients and practitioners have the ability to link to multimedia resources, which may enrich the therapeutic experience (Grohol, 2000; Mallen, Vogel, & Rochlen, 2005).

Notably, although many of the skills required to perform asynchronous cyber-counseling are similar to those of face-to-face service, practitioners require specialized training to
deliver effective, high-quality online counseling services (Mallen, Vogel, et al., 2005). Asynchronous cyber-counseling is unique for several reasons. First, in the absence of nonverbal communication cues such as body language and tone of voice, practitioners need to use various telepresence techniques (Barak et al., 2009; Fink, 1999) to develop and maintain an accurate portrayal of and response to the clinical situation. These techniques include emotional bracketing (i.e., the use of square brackets to express inner thoughts and feelings), descriptive immediacy (i.e., the use of descriptive language that provides the client with information about the practitioner’s context and actual or imagined nonverbal behaviors toward the client), non-lexical verbalization (i.e., textual expressions of non-lexical noises that convey meaningful communications), and time presence (i.e., the use of time terminology that takes clients away from the experience of reading an e-mail and towards the experience of interacting with a practitioner). Second, in asynchronous counseling online practitioners face the challenge of dealing with crisis situations due to the nature of distance counseling. As such, they need to be aware of emergency provisions should they identify any serious safety issue such as suicide, homicide or children at risk of harm (Mitchell & Murphy, 1998). Third, effective cyber-counseling practitioners need to have the capacity to craft words and sentences coherently, to respond to clients with clarity, and to communicate empathy in appropriate depth in online environments. These techniques are learned through repeated practice and supervision (Mallen, Vogel, et al., 2005).

Competence and Cyber-Counseling

Competence has been defined as the capacity of professionals to apply a set of knowledge, skills, and attitudes to the full range of situations in the domains associated with their profession (Bogo et al., 2006; Kane, 1992; Lysaght & Altschuld, 2000). Competence is context dependent, and involves clinical insight, good judgment, and appropriate and responsive actions (Barber, Sharpless, Klostermann, & McCarthy, 2007). As underscored in codes of ethics in professional associations such as the American Psychological Association (2010), the Canadian Association of Social Workers (2005), the National Association of Social Workers (2008), and the American Counseling Association (2005), practitioners are ethically obligated to provide competent care to their clients and are supposed to render specific intervention techniques or approaches new to them only after they undertake relevant education, training, supervision, consultation or study. Given the unique service modality of cyber-counseling, ensuring practitioners have the appropriate knowledge and skill set to deliver counseling online competently has been noted as a major challenge to cyber-counseling practice (Alleman, 2002; Graff & Hecker, 2010; Rochlen et al., 2004). Increasingly, universities and other educational programs are offering certificate programs (e.g., Murphy, MacFadden, & Mitchell, 2008; ReadyMinds, 2010) and are including cyber-counseling within the curriculum through course work and internships (Mishna, Levine, Bogo, & Van Wert, 2012; Mishna, Tufford, Cook, & Bogo, in press; Trepal, Haberstroh, Duffey, & Evans, 2007), and state licensing board and professional organizations have established guidelines for cyber-counseling (e.g., American Counseling Association, 2005; National Board for Certified Counselors and Center for Credentialing and Education, 2005). These training programs and guidelines serve as mechanisms not only to assist trainees and professionals who practice cyber-counseling, but also to increase their competence of care.

Accompanying the development of cyber-counseling education, training, and credentialing is a need for assessment methods and tools that can demonstrate the competence level of trainees and professionals. Professional competence starts in the early stages of training and is a continuing life-long process (Leigh et al., 2007). Given the developmental nature of competence, the assessment of competence not only advances the field and protects the public, but facilitates learning through identifying practitioners’ strengths and areas for further development. At a program level, assessing participants’ competence provides information to guide the development and refinement of curriculum and training programs (Kaslowsky, 2004). Over the years, standardized competency assessment methods and measures have been developed to address the needs of education and regulatory bodies to ensure accountable, competence-based care (see Andrews & Burrell, 2004; Badger & MacNeil, 2002; Bienefeld, Klykylo, & Knapp, 2000; Bogo et al., 2011, 2012; Lockyer, 2003; Lu et al., 2011; Newble, 2004; Ross et al., 1988). These generic measures however, do not fully address the specific applications and techniques required in cyber-counseling. To address this need, we developed and pilot tested a new method and tool, Cyber-counseling Objective Structured Clinical Examinations (COSCE). The intended use of this assessment method is to evaluate the level of competence of trainees and practitioners who practice cyber-counseling. In this paper, we describe the development of the tool, present our preliminary findings on its internal consistency, interrater reliability, interrater reliability, and construct validity, discuss the strengths and limitations of the study, and offer some ideas for integrating the COSCE in future research.

Method

The Development of the COSCE

The COSCE was developed by an investigation team that consisted of four social work researchers, three expert cyber-counseling practitioners, one research coordinator and two doctoral students. One of the three expert cyber-counseling practitioners has designed and delivered cyber-counseling courses to graduate and postgraduate students, and the other two have a master degree in social work or psychology, have practiced cyber-counseling for over 12 years, and have delivered workshops on cyber-counseling. We began the process by comprehensively reviewing relevant practice competence methods and measures and members of our team have
published a comprehensive review elsewhere (Logie, Bogo, Regehr, & Regehr, in press). Following the literature review, we decided to adapt the Objective Structured Clinical Examination (Bogo et al., 2011, 2012; Hodges, Hanson, McNaughton, & Regehr, 2002; Lu et al., 2011; Ross et al., 1988) for this project. We chose the OSCE for several reasons. First, it has well-established psychometrics, including interrater, inter-case (or inter-station) and split-half reliability, and strong content, construct, and concurrent validity (Adamo, 2003; Bogo et al., 2011; Swick, Hall, & Beresin, 2006). Second, using standardized clients, the OSCE can measure cross-sectional clinical competence while assessing complex competencies without endangering clients’ wellbeing, which increases its feasibility. Third, the OSCE has been used in the mental health professions including psychiatry (Hodges, Regehr, Hanson, & McNaughton, 1998; Walters, Osborn, & Raven, 2005), social work (Bogo et al., 2011, 2012; Lu et al., 2011), and family therapy (Le Roux, Podgorski, Rosenberg, Watson, & McDaniel, 2011), making it potentially adaptable to cyber-counseling. Finally, the OSCE has been found to not only facilitate a formative assessment process that allows both instructors and trainees to gather feedback that guides improvement in an ongoing teaching and learning context (Bogo et al., 2011; Carraccio & Engleman, 2000; Park et al., 2004; Stein, Parish, & Arnsten, 2005), but also provides an excellent summative assessment of the level of competence and proficiency necessary at the end of training (Townsend, McIlvenny, Miller, & Dunn, 2001).

The OSCE typically consists of standardized clinical scenarios with trained actors simulating a client who presents one or more psychological problems (Andrews & Burruss, 2004; Hodges et al., 2002; Tamblyn, Klass, Schnabl, & Kopelow, 1991). The person being evaluated interacts with each of a number of standardized clients in a limited time (typically 10–15 minutes for each client) while their performance is observed and rated by one or two examiners using a rating tool. A final competence score is based on the combined scores from different client scenarios (Newble, 2004).

Summarized in Table 1, the development of the COSCE involved three steps. First, we adapted the practice performance rating scale of the Social Work Objective Structured Clinical Examinations (Bogo et al., 2011), and incorporated additional items relating to key performance indicators of cyber-counseling based on the cyber-counseling literature (Collie, Mitchell, & Murphy, 2000; Murphy et al., 2008; Murphy & Mitchell, 2009), to create a cyber-counseling performance rating scale. The preliminary version of the scale was tested on four cyber-counseling e-mail sessions. Teleconferences were held among investigators to collect qualitative feedback about the scale’s applicability assisting in refining conceptual issues and item descriptions. Based on the comments generated during this testing process, we incorporated additional items related to cyber-counseling, eliminated confusing wording and further strengthened the clarity of the instructions.

As shown in Table 2, the cyber-counseling performance rating scale has eight domains with a total of 18 items, reflecting general elements in counseling and specific nonverbal elements of communication in text-based cyber-counseling. Of the 18 items, 13 items were derived from a global rating scale

<table>
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<tr>
<th>Step</th>
<th>Process</th>
<th>Output</th>
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<tbody>
<tr>
<td>1. Creation of the cyber-counseling performance rating scale</td>
<td>• Derived items from the practice performance rating scale of the Social Work Objective Structured Clinical Examinations (Bogo et al., 2011) • Incorporated key performance indicators of cyber-counseling based on the literature (Collie et al., 2000; Murphy et al., 2008; Murphy &amp; Mitchell, 2009) • Tested the preliminary version of the scale on four email sessions • Held teleconferences to discuss the rating process and collect qualitative feedback</td>
<td>• Developed a cyber-counseling performance rating scale that has eight domains with a total of 18 items</td>
</tr>
<tr>
<td>2. Creation of standardized client scenarios</td>
<td>• Simulated client scenarios created by two expert cyber-counseling practitioners • Refined the scenarios to increase their richness and complexity</td>
<td>• Developed two fictional scenarios that consist of two different clients with distinct, authentic issues and background</td>
</tr>
<tr>
<td>3. Recruitment and training of COSCE raters</td>
<td>• Recruited three expert raters • Raters followed the original scale instructions and assessed two cyber-counseling sessions • Interviewed the raters and conducted teleconferences to collect their qualitative feedback, discuss their concerns and questions, and address any rating inconsistency issues</td>
<td>• Recruited and trained three raters • Refined and implemented the cyber-counseling performance rating scale based on the rater feedback • Made the cyber-counseling performance rating scale available online</td>
</tr>
</tbody>
</table>

Table 1. Summary of the Development of the COSCE
used to evaluate the performance of social work students (Bogo et al., 2011), and five items were designed to reflect the use of telepresence, a unique feature in cyber-counseling (Barak et al., 2009; Fink, 1999). The rating scale is presented in Appendix A. All items are rated by expert raters on a 5-point Likert-type scale where 1 indicates low-level of competence and 5 indicates high-level of competence. The range of the cyber-counseling performance rating score for each session is from 18 to 90. An examinee’s final COSCE score is the average of the total performance rating scores from the client encounters being evaluated.

The second step involved the creation of two standardized client scenarios to use in the testing process. The two scenarios are provided in Appendix B. These simulated client scenarios were devised by two expert cyber-counseling practitioners who have developed and taught cyber-counseling certificate postgraduate programs. The complexity of each scenario was based on the expectations of what the professional is likely to face in real world online clinical work. The scenarios were presented to the study team, and minor refinements were made in the research team meetings. In particular, the team felt that diversity issues needed to be enriched in the scenarios, and this consideration was incorporated.

The two simulated scenarios employed in this study were two different clients with distinct issues and background. The scenarios reflected authentic client issues that practitioners might encounter in cyber-counseling. The first client was a single mother with two children. She was troubled by relationship issues with her partner. The second client was a young man of Asian Indian descent who was experiencing intra-cultural conflicts with his girlfriend’s father and feeling not understood by his North American peers.

Finally, we recruited and trained three raters—one from the scale development team (internal) and two expert cyber-counseling practitioners who were independent to the scale development (external)—to rate the e-mail sessions using the cyber-counseling performance rating scale. The combination of internal and external expert raters allowed us to test if the ratings differed between them, and to assess the scale’s applicability in the field. To ensure quality of the rating, we first asked the three raters to follow the scale instructions and assess two cyber-counseling sessions. Then, we analyzed the ratings from the three raters and conducted teleconferences to collect their qualitative feedback, discuss their concerns and questions, and address any rating inconsistency issues. Raters raised concerns related to the wording of the instructions and descriptors of the scale, and both issues led to inconsistent ratings. After the instructions and descriptors were modified, we did not detect any more inconsistency issues. Raters suggested that the modified instructions are self-explanatory and no other orientation is needed to use the rating scale. Presented in Appendix A is the most current form of the cyber-counseling performance rating scale with modified instructions and revised descriptors.

Another concern was related to the available format of the rating scale. Initially the scale was only made available in a word processing document. Although the ratings can be sent electronically, raters found that it was cumbersome to use the checkbox and textbox functions. Moreover, it was easy to miss an item with the word processing format. We thus migrated the form to an online survey site. This change improved the flow of the rating process and increased accuracy.

Implementation and Validation Procedure of COSCE

The study protocol was approved by the Health Sciences Research Ethics Board of the University of Toronto. We tested the validity and reliability of the COSCE on a sample of 12 examinees: six masters of social work student practitioners and six expert cyber-counseling practitioners. To recruit the student practitioners, we sent an invitation letter to 12 students who had participated in a cyber-counseling training workshop and completed a yearlong comprehensive cyber-counseling internship. For the expert practitioners, we reached out to a network of cyber counselors who had at least a master’s degree in psychology, social work, or counseling, had completed cyber-counseling certificate programs, and had practiced cyber-counseling for over 5...
years. Both groups of practitioners were informed of the following: (1) they were invited to participate in a cyber-counseling performance scale validation project; (2) their participation was completely voluntary; (3) their identity would be masked from the raters and the investigators with a randomly assigned number ID; and (4) they would receive a $100 gift certificate after they submitted their e-mail sessions. In addition, we emphasized to the prospective student participants that the e-mail sessions they provided would not be used as a source of evaluating their practicum and academic performance. We completed the recruitment when we reached the anticipated number of study participants.

Each examinee was given the two standardized simulated client e-mails. We asked the examinees to follow their typical practice and conduct a 1-hour session as if they were the practitioner for each of these two fictitious clients. The examinees were given 1 week to return their e-mail sessions, and were instructed not to consult with other practitioners. Our three raters independently rated all examinees’ e-mail sessions using the online cyber-counseling competence rating scale. A research staff member who was not involved in any data analysis activity masked the identities of the examinees. To avoid any halo effect, all e-mail sessions were randomly assigned an ID number, and the raters could not link the examinees based on the ID numbers in any way.

Results
We assessed the COSCE’s internal consistency, interrater reliability, interclient reliability, and construct validity. All analyses were conducted using IBM SPSS, Version 20 (IBM SPSS, Chicago). Based on the responses from 12 examinees for two client scenarios, we collected a total of 24 cyber-counseling sessions. The three raters, blind to the examinees who provided the sessions, assessed all 24 sessions using the cyber-counseling performance rating scale. The average time to administer the scale was 18.54 minutes ($SD = 16.5$).

Internal Consistency
We computed the Cronbach’s alpha to assess the internal consistency of the rating scale. The overall Cronbach’s alpha for the 18 item scale across the 72 assessments (3 raters x 24 sessions) was .97, suggesting that all the items were measuring the cyber-counseling performance construct.

Interrater Reliability
To estimate the interrater reliability of the COSCE, we calculated the Cronbach’s alpha for the 24 COSCE scores generated by each of the three raters. The 3-rater alpha across all examinees was .82, indicating a good interrater reliability when three independent raters are used to assess each performance. To assess the interrater reliability specifically for the student and expert examinees, we also computed the Cronbach’s alphas for the two cohorts separately. The result was weak for the student cohort (3-rater alpha = .68), and good for the expert cohort (3-rater alpha = .85).

Interclient Reliability
To assess the generalizability of the competence scores between client scenarios, we calculated the Cronbach’s alpha coefficient for the total of the two scenarios, where the score of each scenario was averaged across the three raters. The two-scenario Cronbach’s alpha was .91 for all examinees, .87 for student examinees alone, and .84 for expert examinees alone. These results suggest good to excellent interclient reliability, and provide some evidence for the generalizability of individual competence scores across different scenarios.

Construct Validity
We tested the construct validity of COSCE in two ways. First, an exploratory factor analysis was undertaken to examine whether the 18-item rating scale comprised coherent dimensions of items through the use of principal component analysis with varimax and oblique rotations. The Kaier-Meyer-Olkin measures of sampling adequacy statistic was .93, and the Bartlett’s test of sphericity was significant ($\chi^2(153) = 1356.97, p < .0001$), indicating that the factor analysis yielded a distinct and consistent result for the data (Kaiser, 1974). The principal component analysis result suggests that all items loaded on one factor, accounting for 68.13% of the variance for the 18 items, with an Eigenvalue of 12.26. Overall, the factor analysis indicated all the items grouped together well to form a single factor concerning cyber-counseling competence.

Second, we assessed the construct validity of the COSCE based on the known-groups validation principle (Allen & Yen, 1979; DeVellis, 2012; Portney & Watkins, 2008) to test if the COSCE correctly differentiated examinees who were more experienced from those who were less experienced. We used $t$-test to compare the total COSCE scores between the seasoned practitioner examinees and student examinees. The experienced practitioners received a much higher average COSCE score (61.63 [$SD = 17.15$]) than the student practitioners (40.94 [$SD = 13.19$]). The difference between the two groups was statistically significant, $t(66) = 5.51, p < .0001; Cohen’s d = 1.36$, suggesting evidence for the construct validity.

Discussion and Applications to Social Work
A validated cyber-counseling competence assessment instrument can provide educators and researchers with an invaluable tool for examining professionals’ capacities in delivering cyber-counseling. In this paper we delineated steps taken to develop the COSCE, and presented initial evidence of the COSCE’s internal consistency, interrater reliability, interclient, and construct validity on a sample of practitioners who practice asynchronous cyber-counseling. The study results demonstrate this tool’s potential utility for future replications, while still warranting areas for improvement.
Careful, coordinated planning and preparation set the stage for this study. Our study team comprised scholars with expertise in the OSCE method and statistical analysis and in cyber-counseling, cyber-counseling professionals, and research staff members who supervised and administered the study logistics. This composition proved to be critical in developing the COSCE as it provided the expertise and support needed for such a study and allowed the pilot process to move forward. The team collectively understood the importance of communication and reiteration in the process of developing the measurement tool. Furthermore, the three-step approach generated the three necessary parameters—a rating instrument, client scenarios, and trained raters—for the COSCE and facilitated an ongoing refinement of the tool. Such an approach ensured the COSCE’s quality and integrity.

Competence has been conceptualized as an integration of knowledge, skills, and attitudes that reflects a practitioner’s overall fitness for the profession (Bogo et al., 2006; Epstein & Hundert, 2002). This integration is seen in the enactment of complex practice behaviors. Our empirical data support this holistic view on competence, given that both the internal consistency and the exploratory factor analysis results indicate a unidimensionality of the COSCE performance scale. The data suggest that the set of 18 items collectively represent a set of interdependent processes that demonstrate levels of cyber-counseling competence, rather than distinct competence areas in which individuals could perform well or poorly.

Whether practitioners can perform consistently from client to client is an important practice issue and literature suggests that interclient reliability is perhaps the most critical aspect in clinical competence assessment (Wass, Van der Vleuten, Shatzer, & Jones, 2001). The preliminary results of our study suggest that the COSCE may have an adequate ability to consistently detect the examinee’s performance across cases. That being said, an OSCE typically involves at least four to five simulated clients (Bogo et al., 2011), which is intended to capture the complexity of client situations. In our study, we asked practitioners to respond to only two client scenarios. Although the two simulated clients illustrated distinct issues and were different in their gender orientation, age, and ethnic-racial background, such a limited number of case presentations nevertheless restricts the generalizability of the study results. Future research that attempts to replicate our study should consider incorporating more scenarios that can represent a variety of clients and reflect the complexity of situations encountered in cyber-counseling.

As with other types of OSCEs, the COSCE evaluates the practitioner’s competence through the examination of single sessions with different individual clients. As a result, the current form of the COSCE assesses the practitioner’s competence with clients in isolation and does not render information on the practitioner’s performance over the course of the counseling process. Future studies can consider using the COSCE to assess the practitioners following a single client longitudinally from the initial, middle, and end stages of the counseling process. Through the process, practitioners can demonstrate their case formulation, generate questions and provide responses that facilitate problem solving and strength building, and articulate how they would address the client’s presenting problems through a text-based environment. Such a prolonged engagement will be particularly meaningful in educational settings where the learners can learn from the COSCE results and receive feedback to build their critical thinking, judgment, text-based interpersonal interaction skills, and capacity to demonstrate all these skills online. Furthermore, this design supports holistic and client-centered practice, and can help enhance the COSCE’s validity as a “real-world” assessment as the learner follows a case through to its conclusion (Rushforth, 2007).

Although the COSCE has good overall interrater reliability and an appropriate interrater reliability for seasoned practitioners, the interrater reliability (Cronbach’s alpha = .68) for novices was questionable. This finding suggests that the COSCE scores can vary somewhat across raters when it is applied to the student population and any adaptation of the current form of the COSCE in an educational setting should be considered preliminary. In a study examining the use of an OSCE among student learners, Wilkinson and colleagues (2003) found that the degree of involvement the raters had in the construction of case scenarios was positively associated with interrater reliability and was the most important contributing factor. As two of the three raters in our study did not participate in the process of the case construction, it is possible that we could further improve the interrater reliability by having raters who were actively engaged in the development of simulated cases. Future studies could have the raters who authored the scenarios serve as raters in the evaluation and compare findings with this study.

Synchronous cyber-counseling is becoming more common than it was before (Mallen, Jenkins, Vogel, & Day, 2010). The COSCE is designed to test asynchronous cyber-counseling, and therefore it would be inappropriate to use its current form to test other types of cyber-counseling, such as synchronous chat and video conferencing. Future research can consider modifying the COSCE for synchronous cyber-counseling and testing its applicability and psychometric quality. Specific modifications may include assessing the practitioners’ efficacy of using computer technology, and evaluating how the practitioner can accurately assess clients, provide a nurturing environment, and establish a working alliance using synchronous media.

On a broader, program level issue, the feasibility of adopting methods to assess competence in the field has been a primary consideration in the competence literature (Leigh et al., 2007). Given the holistic and multifaceted nature of practice competence, assessment of competence often involves a complex process and carrying it out requires additional investment in time and resources (Baartman, Bastiaens, Kirschner, & van der Vleuten, 2006). Although the COSCE does not involve trained actors role-playing a client as other OSCE’s do (see Adamo, 2003; Hodges et al., 2002), and is less labor-intensive and costly, the client scenarios nevertheless need to be continually refreshed and developed. Moreover, the
implementation of the COSCE requires expert raters who have extensive experience in cyber-counseling. Given that cyber-counseling is still a relatively new approach, it may be difficult to identify raters with such expertise, which serves as a challenge for successful implementation. That said, we concur with the framework for competence assessment programs presented by Baartman and colleagues (2006), in that time and financial resources need to be allocated to all parts of education, including competence assessment. To ensure the high quality delivery of cyber-counseling competence assessment while retaining its practicality, it may be helpful for professions (e.g., social work, psychology, counseling) that have a common interest in cyber-counseling to collaborate and share resources (Leigh et al., 2007), and develop a pool of qualified raters who can facilitate the implementation of the COSCE.

Asynchronous cyber-counseling has unique features and challenges that are not shared by traditional modes of therapy. Practitioners working in this text-based modality must possess skills and knowledge specific to this method of delivery. As cyber-counseling is likely to continue to grow in the future, it is imperative that educators and accreditation authorities incorporate a reliable, valid and timely competence assessment tool into the education and training process. Such a tool can help guide education and training plans, provide formative information on areas for improvement for the individual being evaluated, and eventually facilitate a summative evaluation (Kaslow et al., 2007). Given that practice competence is complex and has multiple attributes, a range of assessment methods is needed to capture the practitioner performance (Wilkinson, 2007). The COSCE, with further development and replications, can be a reliable and valid tool in assessing practitioners who practice cyber-counseling. Future studies should involve coordinated efforts and careful planning to implement such an evaluation tool. Increasing the number of simulated cases, incorporating a longitudinal design, and strengthening rater involvement in case constructions may be keys to strengthen the clinical relevance and psychometric properties of the COSCE, and allow it to be a meaningful addition that ensures the quality of cyber-counseling practice.

Appendix A

Cyber-Counseling Performance Rating Scale

Instructions for Raters:

Under each item listed, indicate which score best represents your assessment of the counselor’s competence as demonstrated in their response to the client and his or her situation. A score at the low end of the scale, “1,” indicates a failure to demonstrate any competence in that skill, whereas a score at the high end, “5,” indicates an evident mastery of the skill in question. You may refer to the descriptions written under “1” and “5” for each item for further specifics to guide your rating; use scores “2,” “3,” and “4” to indicate levels of competence which range between these two ends of the scale.

Please mark your selection by checking the box number corresponding to the counselor’s performance.

I. Introduction

Q1. Introduction

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<tr>
<td>Abrupt or inappropriate opening to counseling session; Does not provide information to orient client, or provides misleading information</td>
<td>Introduction is warm and individualized; Meaningfully orient the client to the counseling session in a seamless and therapeutic way</td>
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II. Assessment

Q2: Responds to client’s situation

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<tr>
<td>Response does not seem to reflect client’s situation</td>
<td>Response effectively and consistently reflects primary and supplementary needs of client based on client text and tone</td>
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### III. Intervention

#### Q3: Demonstrates ethical/legal knowledge in cases of threat to harm of self or others/child maltreatment (where appropriate)

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Response does not address issues evident in client text

Response meaningfully and consistently reflects severity and urgency of issues

#### Q4: Focus of interview

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The counseling session has no coherence or rigidly follows counselor’s own agenda. The counselor misses major themes, client concerns

Provides direction, maintaining focus with smooth transitions. Skillfully and continuously responds to client concerns

#### Q5: Explores client’s experience

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Counselor does not explore the content and meaning of client’s experience

Counselor skillfully explores content and meaning of client’s experience, effectively deepening joint understandings

#### Q6: Validates client’s experience

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Response does not validate/ normalize client’s experience

Response meaningfully and consistently validates/ normalizes client experience, and provides helpful information where appropriate

#### Q7. Supports client in moving forward

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Response does not address client resources, needs, and strengths; does not explore options, or does so in a potentially harmful way

Response meaningfully and consistently identifies and examines client’s resources, needs and strengths, and effectively explores options
IV. Termination

Q8. Termination

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The counseling session is terminated abruptly.  
Response is skillfully terminated with discussion of reoccurring feelings, client strengths; client encouraged to re-contact counselor.

V. Relationship Building

Q9. Communicates understanding of client's thoughts and feelings

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The counseling session does not convey understanding; does not reflect client’s tone or stated thoughts and feelings.  
The counseling session meaningfully and consistently conveys understanding; reflects client tone, style of writing and intensity; skillfully incorporates client’s terms or phrases.

Q10: Explores relationship dynamics

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The counseling session ignores or miscategorizes dynamics of client–counselor relationship in potentially harmful ways.  
The counseling session pays meaningful and consistent attention to evident dynamics of client–counselor relationship.

Q11: Boundaries and Use of Self

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The counseling session contains significant breaches of appropriate counselor–client boundaries.  
The counseling session consistently maintains appropriate boundaries while building strong relationship; demonstrates skillful use of self by counselor (if applicable).
VI. Enhance Telepresence

Telepresence elicits an (imagined) experience of close proximity between client and counselor, even though temporal and geographic distance is the reality. The skills involved in telepresence are emotional bracketing, descriptive immediacy, non-lexical verbalisations, time presence and spacing and pacing.

**Q12: Emotional bracketing** is the use of square brackets to express inner, nonobservable experience such as thoughts and feelings. (e.g., [aware of how painful this must be for you] OR [feeling impressed by your courage]).

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Response does not incorporate emotional bracketing

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Response consistently and appropriately incorporates emotional bracketing, creating an experience of “being there”

**Q13: Descriptive immediacy** is the use of descriptive language that provides the client with information about the counselor’s observable, actual or imagined nonverbal behavior toward the client (e.g., “If you were with me now you would see the compassion and understanding in my eyes”).

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Response does not incorporate descriptive immediacy

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Response consistently and appropriately incorporates descriptive immediacy, creating an experience of “being there”

**Q14: Nonlexical Verbalisations** (NLVs) are textual expressions of nonlexical noises that convey meaningful communication (e.g., uh, um, duh, eee, ew, ha, hee, huh, huh-uh, hm, jeepers, jeez, mm, mhm, nah). Nonlexical noises are a common part of everyday in-person conversation. Counselors intentionally misspell or stumble over their words, repeat themselves, utter partial words, and restart phrases or sentences (e.g., “Wait a sec...”; “I dunno”). Punctuation marks are usually added to convey tone of voice.

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Response does not incorporate NLVs

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Response consistently and appropriately incorporates NLVs, creating an experience of “being there”

**Q15: Time Presence** is the use of time terminology that takes clients away from the experience of reading an e-mail and toward the experience of interacting with a therapist (e.g., “A moment ago you said”; “Right now I think we should”).

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Response does not incorporate Time Presence.

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Response consistently and appropriately incorporates Time Presence, creating an experience of “being there”
Q16: **Spacing and Pacing** represent a set of techniques that serve to control the pace of the therapeutic conversation. Dashes are used, pauses inserted, words extended (e.g. “Well... that's a good question Josh... let me think about that a minute”... [pausing to consider your comments]... CONGRATULATIONS!!) Space created by hitting the Enter key is also a Spacing and Pacing technique.

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<td>Response consistently and appropriately incorporates Spacing and Pacing.</td>
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**VII. Cultural, Cross-cultural, and Cross-linguistic Issues**

Q17: “Culture” is interpreted in its broadest sense, including experiences and perspectives shared by groups defined by religion, race, language, ethnicity, age, class, national origin, sexual orientation, ability, and other relevant social categories.

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<td>Response does not address cultural, cross-cultural or cross-linguistic issues evident in the counseling session, or addresses these in potentially harmful ways.</td>
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<td>Response meaningfully addresses and explores cultural, cross-cultural or cross-linguistic issues; encourages client to clarify if misinterpretation occurs; effectively repairs related ruptures</td>
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**VIII. Overall Assessment of the Competencies Demonstrated in the Response**

Q18: Based on your impression of the candidate’s performance, this candidate demonstrated competence at the level of:

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<td>Lack of initiative or attention to assessment, intervention, termination, and relationship building</td>
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<td>Meaningful and consistent attention to assessment, intervention, termination, and relationship building</td>
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**Appendix B**

*Simulated Client Scenarios*

**Client Scenario 1**

This is an initial e-mail from a client. You can consider that all of the screening has been done and the client is appropriate for online work. You can also consider that the ‘housekeeping message’ has already been sent and you do not need to cover those items in your response. Please take no more than 1 hour to complete a reply.

Name: Nella Winfried

I really hope this can help me cos I really need it! I’m 24 and got two kids, Rachel whose 3 and Nadia 10 mos old. I dunno where to turn. I feel so confused and sad. My boyfriend, Nadia’s father, has been like totally hurtful. He’s never trusted me that he is Nadia’s father. Like biologic or whatever. But I know he is. Maybe it’s cos his boss has been ragging on him and cut him back to part-time. But he’s been
drinking more and just so mean to me lately. I’m seriously scared - he left last night saying, "It’s over. I’m outa here." He’s left me before but just for a few hours - never overnight. And never with a backpack full of his clothes. I’m so scared. He always comes back. I hope he comes back. Can you tell me if he could come back? What am I gonna do? Please you gotta tell me. I haven’t worked since before Rachel was born. I like just finished high school (LOL). And only just. I met Rachel’s dad, and he worked and I stayed home and didn’t work. But now I got nobody! Just my little girls. What am I gonna do? Welfare? Oh my gosh, no. My Dad would never speak to me again. He always says I pick shitty guys. Is he right?

Maybe my dad was always right. I know a girl needs a guy to take care of her. That’s the way it is eh?

I feel like such a LOSER! I’m like a Jerry Springer girl. LMFAO!

Nadia just woke up so I gotta go. Hope this is enough. I know you can help me. People like you have such way better lives. Please help.

Nella

**Client Scenario 2**

This is an initial e-mail from a client. You can consider that all of the screening has been done and the client is appropriate for online work. You can also consider that the ‘housekeeping message’ has already been sent and you do not need to cover those items in your response. Please take no more than 1 hour to complete a reply.

Name: Talib Kapur

Hello, I am really upset because of the love I have for my girlfriend who I have know for 2 yrs and hoping to marry. The problem is her father does not like me or my family because he says that my family are not good enough to become his in laws. We do not match his family status. The traditional Indian value (oh by the way I am Indian) is a belief about matching family status which we youngsters nowadays do not buy into. He says his daughter deserves a man better than me. He always says very mean things against me and also my father who is a school custodian and has worked hard to help me pay for university.

For 2 years already me and my girlfriend share an intimate relationship that is extremely close. She “worships” me really and I love her tremendously. If we are apart, we are always texting or on the phone. We have been having problems from her father the whole time but have been coping moderately well. But lately I feel really scared that her father is starting to destroy our relationship. Recently she tells me he has been threatening her. It is really bad.

Currently, I am in Ottawa doing my bachelors in Kinesiology and my girlfriend lives with her family in Toronto. I have 6 more months to return permanently to Toronto. Her father is realising the fact that we want to get married when I return and is trying all sorts of emotional blackmail to change my girlfriend’s mind. Even if she chooses me and we marry, she might be rejected by her father too. I really love her alot and cannot bear if we break up. But it seems my dream is going to be shattered.

Each morning I wake up feeling distressed and always have constant fear built up at the back of my heart/mind.

I hope you are accepting of Indian clients and can understand how it is that I am in two worlds. The Canadian students are not understanding so I worry that you may not be either… Hope you can facilitate something here. Thanks!

---

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**References**


