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INVITED PAPER

# The why, what, when, who and how of assessing CBT competence to support lifelong learning

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## Abstract

Assessment of cognitive behaviour therapy (CBT) competence is a critical component in ensuring optimal clinical care, supporting therapists' skill acquisition, and facilitating continuing professional development. This article provides a framework to support trainers, assessors, supervisors and therapists when making decisions about selecting and implementing effective strategies for assessing CBT competence. The framework draws on the existing evidence base to address five central questions: **Why** assess CBT competence?; **What** is CBT competence?; **When** should CBT competence be assessed?; **Who** is best placed to assess CBT competence?; and **How** should CBT competence be assessed? Various methods of assessing CBT competence are explored and the potential benefits and challenges are outlined. Recommendations are made about which approach to use across different contexts and how to use these effectively to facilitate the acquisition, enhancement and evaluation of CBT knowledge and skills.

## Key learning aims

After reading this article you will be able to:

- (1) Identify key issues about why, what, when, who and how to assess CBT competence and use this framework to guide decisions about the best strategy to use.
- (2) Be aware of the range of methods for assessing CBT competence and consider the main benefits and potential challenges of these.
- (3) Consider the most effective ways to implement CBT competence assessment strategies as a tool for evaluation and learning.

**Keywords:** assessment; CBT competence; clinical skill; guidelines

## Introduction

CBT competence assessments involve making judgements about the quality or skilfulness of therapists' performance and abilities in delivering cognitive behaviour therapy (CBT). This article provides a framework designed to support trainers, assessors, supervisors and therapists when making decisions about selecting and implementing effective strategies for assessing CBT competence. It focuses on how competence assessments can be used to facilitate the acquisition, development and evaluation of CBT knowledge and skills, both within training settings and in supporting continued professional development within clinical practice. The framework centres on five central questions of assessing CBT competence: why, what, when, who and how competence is assessed. The evidence base is used to explore each of these key questions and make recommendations (see Fig. 1 for an overview of key guidelines).

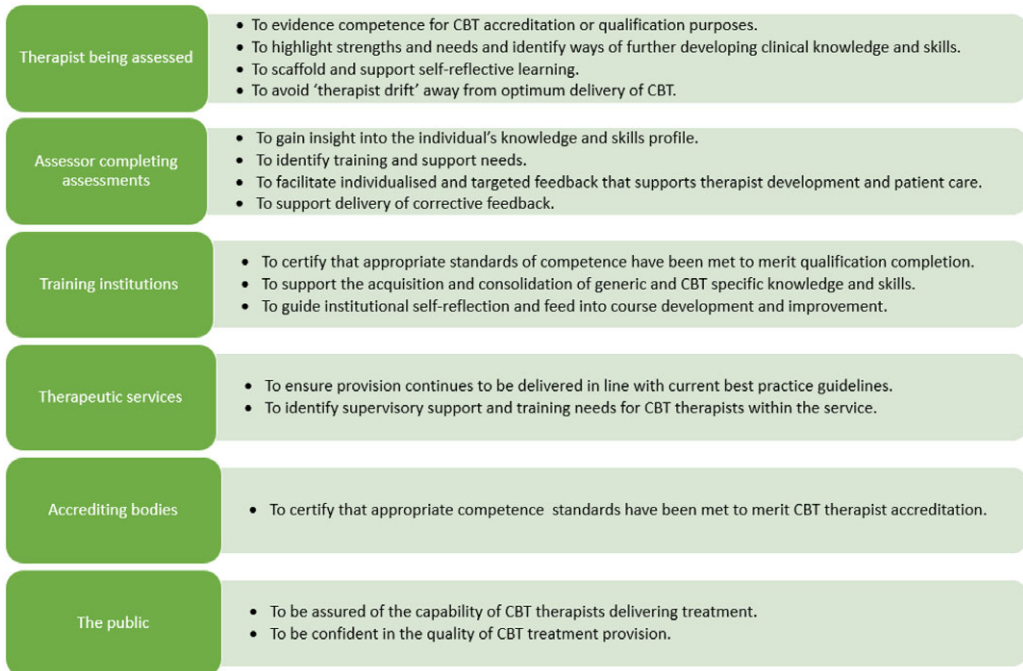


**Figure 1.** Recommendations to guide effective and useful strategies for assessing CBT competence.

### Why assess CBT competence?

There are several reasons why the assessment of CBT competence is a critical component in maintaining ongoing delivery of high-quality CBT. First, effective assessment of CBT competence provides a means of monitoring standards of practice, thus ensuring treatment provision continues to be delivered in line with current best practice guidelines and in a way that is optimally effective for clients (Kazantzis, 2003). Second, competence assessments facilitate evaluation of the training of CBT therapists and ensure newly qualified therapists have not only acquired the necessary knowledge and skills but can also apply these in clinical practice (Decker *et al.*, 2011). Third, competence assessments play a vital role in supporting acquisition and development of the knowledge and skills required to effectively deliver CBT by offering targeted, structured and focused feedback, promoting self-reflection, and guiding future learning (Bennett-Levy, 2006; Laireiter and Willutzki, 2003; McManus *et al.*, 2010a). These issues have been highlighted by the United Kingdom's (UK) initiative to Improve Access to Psychological Therapies (IAPT) (Clark, 2018), which has necessitated the large-scale training of psychological therapists to deliver evidence-based interventions in routine care. Such initiatives have relied heavily on assessment of competence in CBT to inform and evaluate the training of therapists as well as their subsequent provision of evidence-based interventions.

Assessments of CBT competence can serve a range of individual, institutional and societal purposes (see Fig. 2). Careful consideration of the purpose of an assessment of competence is an essential first step in deciding what, when, who and how to assess CBT competence. A helpful distinction is between formative and summative functions. Assessments are



**Figure 2.** An overview of key individual, institutional and societal purposes of conducting CBT competence assessments.

considered summative when used to establish if a therapist has reached a specified standard of competence (Harlen and Deakin Crick, 2003). This is important when certifying therapists' completion of qualifications, granting accreditation, and monitoring quality of practice. The primary goal of formative assessments, however, is to facilitate learning by using structured feedback, which helps those being assessed recognise their strengths and needs, and identify ways of improving practice (Sadler, 1998). Formative assessment plays an important role not only in training but also in continued professional development and supervision. While formative and summative functions of assessments often overlap, identifying a primary focus as formative or summative will influence decisions about the optimal assessment strategy in a given circumstance. Where the assessment is summative, it is most important to provide a robust assessment, often made on the basis of a range of validated assessment tools that provide overall numerical ratings across all key areas of competence (Epstein, 2007). Where the primary purpose is formative, priority can be given to assessments providing in-depth and individually targeted feedback that encourages self-reflection and guides strategies for further development (Juwah *et al.*, 2004; Nicol and Macfarlane-Dick, 2006). Whilst many summative assessment methods also offer opportunities for formative feedback, some formative assessment methods may not be suitable to meet summative requirements (Muse and McManus, 2013).

Key stakeholders' perspectives of the purpose of the assessment must also be considered. Although often aligned, it is important to be aware of, respond to, and manage discrepancies between key stakeholders' goals for the assessment of competence when they arise. For example, trainees understandably prioritise optimising their chances of passing anxiety-provoking summative assessments (Van der Vleuten *et al.*, 2010). Consequently, there may be a temptation to self-select their 'best' therapy sessions for review, to strategically and narrowly focus on learning and delivering the knowledge and skills being assessed by the measures of competence, or to attend only to negative feedback or the overall numeric feedback grade

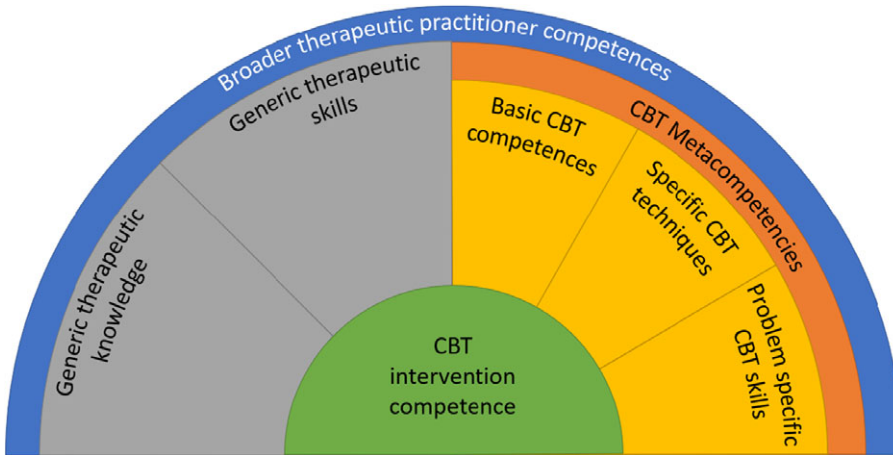
awarded. Anticipating such conflicts of interest allows for management strategies to be put in place to support formative development. This may include developing non-judgemental learning environments in which trainees are well-prepared for, understand, and are actively engaged in the process of how, why and when they will be assessed; ensuring feedback is delivered in a non-threatening, engaging manner within the context of a supportive supervisory or training relationship; clearly highlighting the most important ‘take home’ messages; ensuring feedback is strengths-based; allowing time and space for trainees to digest and respond to both positive and corrective feedback, and implementing formative as well as summative evaluations.

### What is CBT competence?

A critical issue when assessing CBT competence is for all parties involved to agree a clear working definition of what is understood by the term CBT competence. This is not necessarily straightforward, as CBT competence is a complex construct involving multiple distinct aspects of knowledge and skill. For example, it needs to be decided whether to include protocol-specific elements, or non-CBT-specific general therapeutic skills. Broadly speaking, competent delivery of CBT can be defined as the degree to which a therapist demonstrates the knowledge and skills necessary to appropriately deliver CBT interventions in line with the current evidence base for treatment of an individual client’s presenting problem and with sensitivity to the patient’s assets, needs and values (Barber *et al.*, 2007; Kaslow, 2004). However, the broad range of treatment approaches under the CBT umbrella and constantly evolving nature of CBT means that there is a lack of agreement about what constitutes effective CBT and therefore what is considered competent CBT practice. Roth and Pilling (2007) presented a framework of competences required to deliver effective CBT. While this framework has not been empirically investigated, it is reflective of expert opinion at that time and offers the most comprehensive overview of CBT competence available, identifying over 50 inter-related competencies.

The first group of Roth and Pilling’s (2007) competences are generic competences applicable across psychological therapies, including aspects of generic therapeutic knowledge (e.g. of mental health problems, ethical guidelines, etc.) and skills (e.g. ability to foster therapeutic alliance, warmth, empathy, listening skills, etc.). Four further aspects of competence relate to the knowledge and skills specific to the domain of CBT. Basic CBT competences are those used in most CBT interventions (e.g. knowledge of CBT principles, ability to explain CBT rationale, etc.). Specific behavioural and cognitive techniques relate to the use of specific techniques employed in most interventions (e.g. exposure techniques, working with safety-seeking behaviours, etc.). Problem-specific CBT skills are those used to deliver treatment packages for a particular problem presentation (e.g. understanding the role of hypervigilance in anxiety disorders, behavioural experiments to modify catastrophic misinterpretation). Finally, metacompetences are those needed to flexibly apply, adapt and pace CBT according to individual client needs (e.g. capacity to select and apply most appropriate CBT method, managing obstacles, etc.). Although typically not evaluated within CBT competence assessments, this set of knowledge and skills also sits within a broader framework of professional competences, ranging from effective use of supervision to research engagement and self-reflection (Barber *et al.*, 2007; Kaslow, 2004). These key areas of knowledge and skills required to competently deliver CBT are outlined in Fig. 3.

Examining the full range of CBT competences and using this to specify a working definition of CBT competence allows a decision to be made about which aspects of CBT competence should be assessed. Given the broad range of competences required to deliver CBT and the variety of ways of working within the CBT framework, assessments typically focus on a specified subset of generic and CBT-specific knowledge or skill. Given that it is essential that the methods used to assess competence are well aligned with the competences being evaluated, this decision directly influences decision about how competence will be assessed. This may differ depending on the context and situation. For example, within a CBT training setting it may be important to



**Figure 3.** A framework of clinical knowledge and skills required to competently deliver CBT drawn from Barber *et al.* (2007), Kaslow (2004), and Roth and Pilling (2007).

implement a broad multi-method assessment strategy that assesses the breadth of a therapist's generic and CBT-specific knowledge and skills. Conversely, developmental feedback within routine CBT supervision may focus on a specific skill or on the ability to deliver a specific treatment strategy. Regardless of the decision made, it is important that those completing the assessment, those being assessed, and those reviewing assessment outcomes are aware of, and understand, what aspects of competence are being examined and why.

### When should CBT competence be assessed?

The 'when' of CBT competence assessment is important both within and outside of formal training settings. CBT competence assessments are firmly embedded within formal postgraduate CBT training settings in the UK, where multi-source assessments are submitted at several points over the course of training. These practice portfolios usually include assessment of several recorded therapy sessions using standardised rating scales, alongside written case reports and essays (Liness *et al.*, 2019; McManus *et al.*, 2010b). This allows evaluation of the direct and indirect of training efforts across key areas of Kirkpatrick's (1967) training evaluation model: acquisition of knowledge and skill, behaviour in practice settings, and client outcomes (Decker *et al.*, 2011). Within training contexts, assessments serve to establish whether trainee therapists meet a sufficient standard of CBT competence against specified benchmarks and learning outcomes. Training courses must therefore outline and gain institutional agreement as to when and how CBT competence is assessed. This relatively prescribed approach is necessary to ensure a robust and consistent strategy for assessing the acquisition and implementation of general therapeutic and CBT-specific knowledge and skills across training and practice settings (Decker *et al.*, 2011; Muse and McManus, 2013). Yet it is important to remember that this close monitoring and regular feedback on performance is also designed to support the development and consolidation of therapeutic competences. Receiving feedback of in-session performance using standardised rating scales provides useful corrective feedback to trainees, leading to further improvements in competence (Weck *et al.*, 2017a; Weck *et al.*, 2021). Thus, for those completing or receiving assessments within training settings, the key issue may be in understanding the reasons why this strategy has been selected and identifying ways to make use of the feedback within these frameworks to support trainees personal learning goals.



Outside of training settings, ongoing monitoring of competence is not only necessary in the early skills-acquisition phase but is also essential for both novice and experienced therapists to maintain knowledge and skills and prevent ‘therapist drift’ away from optimum delivery of evidence-based CBT treatment practices (Waller and Turner, 2016). Evidence suggests that engaging in such regular deliberate practice can lead to better client outcomes in psychotherapy (Chow *et al.*, 2015). Furthermore, therapeutic regulatory bodies typically use CBT competence assessments to provide evidence of competent practice for accreditation purposes. For example, within the UK and Ireland the British Association of Behavioural and Cognitive Psychotherapies (BABCP) provide CBT practitioner accreditation, which is maintained through periodic re-accreditation. Criteria for ongoing re-accreditation include engagement in ongoing supervision involving regular formal assessment of skill viewed *in vivo* or via session recordings using standardised rating scales (British Association of Behavioural and Cognitive Psychotherapies, 2012). However, using competence assessments within supervision offers much more than a formal annual proof of competence for accreditation purposes. Good practice guidelines recommend that formative competence assessments should be embedded within routine CBT supervision practices to support life-long competence development. In particular, standardised competence assessments based on direct observation of therapists’ skills within treatment sessions or role-plays provides structured, specific, accessible and accurate supervisor feedback, which is useful for supporting supervisee self-reflection and planning for further competence development (Milne, 2009; Padesky, 1996). Worryingly supervision frequently relies on ‘talking about’ therapy within therapist-selected cases, rather than observation of therapist skill during supervisor-selected treatment sessions or role-plays (Ladany *et al.*, 1996; Townend *et al.*, 2002; Weck *et al.*, 2017b). Pragmatic and flexible use of competence assessments can support these methods to be routinely embedded within supervision. For example, the ‘*I-spy*’ technique can be used within supervision to focus on developing a specific micro skill, such as agenda setting or reflective summaries (Gonsalvez *et al.*, 2016). This technique involves reviewing segments of a recorded treatment session within which the specific skill is demonstrated to identify opportunities for alternative ways of responding. Using single items from standardised rating scales can provide useful insight into both parties’ perspective on the supervisee’s performance, as well as providing a framework to support identification of potentially more skilful responses.

### Who is best placed to assess CBT competence?

After relevant decisions have been made regarding what to assess and when, the next question is who should carry out the assessment. Research suggests that CBT therapists are not accurate when assessing their own competence. Evidence about the direction of self-assessment biases is mixed, with most research reporting over-estimation of performance compared with independent assessors (Brosan *et al.*, 2008; Hogue *et al.*, 2015; Parker and Waller, 2015; Rozek *et al.*, 2018; Walfish *et al.*, 2012) and one study reporting an under-estimation (McManus *et al.*, 2012). Thus it is not recommended that self-assessments be used as a formal summative measure of therapist competence (Muse and McManus, 2013). However, self-monitoring can still have a useful role in developing and maintaining CBT competences. Self-assessment is a core aspect of reflective practice that allows therapists to manage their own learning and facilitates identification of professional development needs. The ability to accurately self-assess competence is also a meta-competence that can be improved with training and supervisory feedback (Beale *et al.*, 2020; Brosan *et al.*, 2008; Loades and Myles, 2016). Self-assessing competence by rating performance within therapy or role-play sessions may be a useful self-development strategy, especially when used in combination with objective assessor or supervisory ratings. The collaborative comparative process may support therapists’ ability to

both ‘reflect-on’ and ‘reflect-in’ action, facilitate more accurate self-awareness of competence, and allow assessors to tailor feedback depending on individual therapists’ self-confidence.

There has been a move towards competency-based CBT supervision paradigms that include regular assessment of supervisee competence. However, research suggests that supervisors are compromised by leniency errors and halo effects (Gonsalvez and Crowe, 2014), resulting in supervisors assessing CBT competence more positively than independent judges (Dennhag *et al.*, 2012; Peavy *et al.*, 2014). This ‘positivity bias’ calls into question the ability of supervisors to accurately complete high-stakes summative assessments (Muse and McManus, 2013). Independent assessors may be less influenced by demand characteristics such as a pressure to award a ‘pass’, relationship dynamics, or the halo effect caused by information beyond assessment material (e.g. prior competence, ability in other domains). Yet the factors that increase supervisory biases may also mean that supervisors are well placed to offer global insight into a supervisee’s ability across a range of competences over time, and to provide formative feedback on these. For example, supervisors have access to a greater wealth of contextual information about the treatment context, client’s history, supervisee’s work across time and different clients, supervisee’s professional interactions, and supervisee’s developmental stage. This allows supervisors to tailor feedback to support ongoing, individualised, developmentally appropriate and scaffolded learning strategies within the context of a supervisory alliance. Peer feedback delivered within the context of group or peer supervision may also be considered as a strategy for formative assessment of CBT competence. Although potentially less accurate and reliable, peer assessment may be less threatening and can equip therapists with the skills to both provide constructive feedback to others and to self-assess their own skills.

An ideal approach to assessment of CBT competence would be to triangulate across assessments completed by supervisors, therapists and independent assessors (Muse and McManus, 2013). However, the time and financial cost of this strategy means it may not be possible, and for some purposes not necessary. Decisions about who should complete assessments will therefore need to appraise these pros and cons and make a pragmatic decision informed by the assessment purpose and cost. Strategies to reduce potential biases should also be considered. For example, where supervisory assessments are used, reliability checks could be completed by independent assessors for a subset of core competences at key points in a therapist’s training or practice. Active awareness of possible biases, engagement in reflexive practice whereby the potential impact of personal beliefs, attitudes, assumptions on assessment is acknowledged and examined, and supervision of supervision may help to overcome biases.

Whether supervisors, independent assessors, peers, or self-ratings are used, it is also necessary to provide appropriate training in how to use the competence measures employed. The provision of training should involve as a minimum developing familiarity with rating guidelines and completing practice ratings to standardise ratings (Milne, 2009). However, individual, peer or group ‘supervision of assessment’ may also be beneficial in supporting assessors to complete high-quality assessments (Milne, 2009). Supervision of supervision frameworks have been suggested to support supervisor development (Kennerley, 2019; Milne, 2009) and these approaches may also be applicable within broader peer and independent assessor contexts. Training and supervision for assessors not only enhances the inter-rater reliability of assessments (Kühne *et al.*, 2020), but also supports effective delivery and receipt of feedback. Research suggests that therapist competence cannot be reliably rated by trained novices (Weck *et al.*, 2011) and novices may also be less skilled in providing appropriate formative feedback. Yet it is unclear what expertise is necessary to assess competence, with findings showing mixed evidence about whether accuracy of assessments increases with assessor competence (Brosan *et al.*, 2008; Caron *et al.*, 2020; Hogue *et al.*, 2015; McManus *et al.*, 2012). As a minimum, it is recommended that assessor or supervisory based assessments are carried out



by therapists who have themselves received formal training or accreditation as a CBT therapist and who have significant experience in CBT practice.

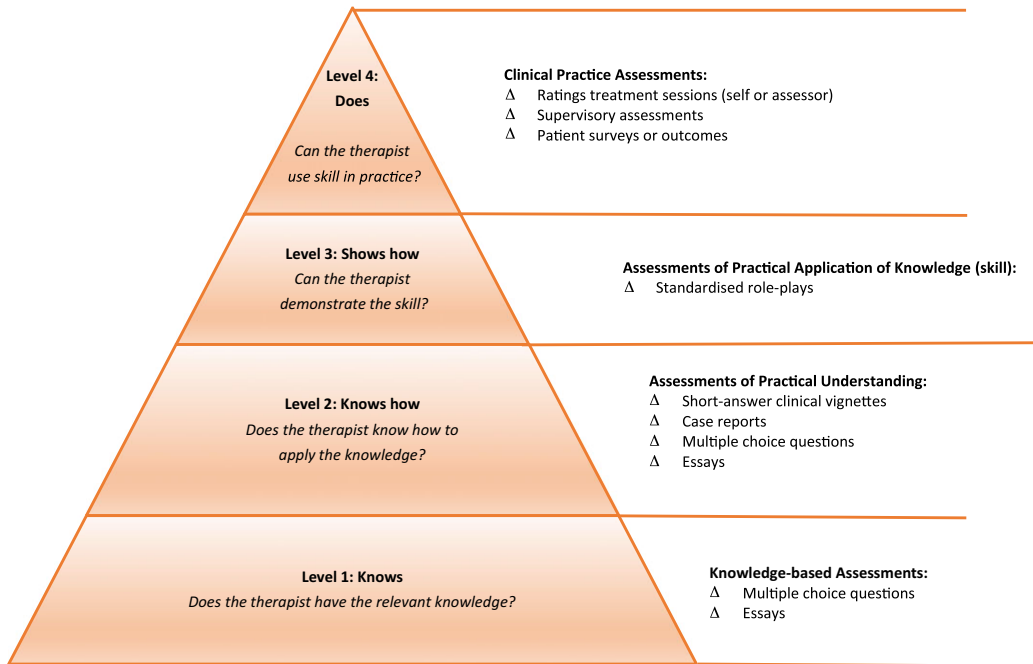
### How should CBT competence be assessed?

A broad range of methods can be used to assess CBT competence with different methods assessing distinct aspects of CBT competence and serving different functions (Muse and McManus, 2013). The recommended ‘gold standard’ approach that is typically employed within CBT training courses is to use a multi-source, multi-informant, multi-method practice portfolio to provide a comprehensive and rounded assessment of therapists’ CBT knowledge and skills (Decker *et al.*, 2011; Muse and McManus, 2013). Ensuring that trainees have reached proficiency across a range of core areas of knowledge and skills is central to high-stakes summative assessments that are used to make an overall judgement of CBT competence for qualification or accreditation purposes. However, such a robust, time-consuming and costly method is not always practical, or necessarily needed or useful in routine professional development, where individual methods may be judiciously selected and applied to develop skills and strengthen supervision. Thus, how competence should be assessed will depend on a variety of contextual factors that influence the nature and purpose of the assessment. For example, assessments may be used to give formative feedback within a training setting, to evaluate the impact of training efforts, as evidence for accreditation purposes, to promote self-reflection, to deliver broad feedback within supervision, or to support development of a specific skill within supervision. It is, therefore, necessary to explore the toolbox of methods available, to be aware of the relative strengths and weaknesses of these methods, and to select the right tool(s) for the job.

Miller’s (1990) hierarchy of clinical skill has been used to categorise the different methods of assessing CBT competence into four hierarchical levels (Muse and McManus, 2013; see Fig. 4). This framework identifies which key aspects of competence are assessed by the different methods available. Table 1 outlines each of these methods, provides examples of key tools that can be used, identifies key strengths and challenges of the method, and makes recommendations for appropriate contexts in which to use them.

The foundation of CBT competence is a sound understanding of the scientific, theoretical and contextual basis of CBT (‘knows’) and the ability to use this knowledge to inform when, how and why CBT interventions should be implemented (‘knows how’). These foundational aspects of competence can be assessed relatively easily, quickly, inexpensively and reliably using multiple-choice questions, essays, case reports and short-answer clinical vignettes. The upper levels in the hierarchy focus on assessing higher-order skills necessary to draw on and apply this knowledge in clinical situations. Level 3 refers to demonstration of skills within carefully constructed artificial clinical simulations (‘shows how’) and can be assessed using observational scales to rate performance within standardised role-plays. This approach offers the potential for scalable, standardised assessment of a range of clinical skills across varied client presentations and complexities. The highest level is the ability to use these skills within real clinical practice settings (‘does’ independently in practice). This can be assessed using client surveys or outcomes, supervisory assessments, and ratings of treatment sessions (self and assessor ratings). Client outcomes and satisfaction may be problematic as they are not direct measures of CBT competence and are influenced by other factors (e.g. client responsiveness to treatment, quality of the therapeutic relationship). Supervisory assessments offer broad and global insight into therapist competence over time and across situations but are also influenced by a number of biases. Self and assessor ratings of treatment sessions are therefore the most commonly used method for assessing skill in practice.

Several different scales have been developed for assessing CBT skills within routine and role-play treatment sessions. These can be broadly categorised as ‘transdiagnostic’ or ‘disorder-specific’. Transdiagnostic scales are designed to assess competences that underpin most CBT



**Figure 4.** A framework for CBT therapist competence measures as aligned to Miller's (1990) clinical skills hierarchy (Muse and McManus, 2013).

interventions, whilst disorder-specific scales assess the competence with which CBT treatment packages for a specific problem presentation are delivered. Disorder-specific scales may be beneficial within highly specialised training and treatment settings but have less applicability within broader training or practice settings in which therapists work across a range of protocols and approaches. These rating scales are generally designed to apply across any 'active' session utilising CBT intervention strategies. This means sessions focusing on other essential CBT activities such as assessment, formulation or relapse management often fall outside the remit of standardised measures. As CBT expands and develops, new measures are also being created to assess competence in these new ways of working (e.g. third-wave interventions, low-intensity interventions etc.).

Caution must be exercised when making judgements about clinical competence using any single scale as it is unlikely that any scale will provide a full and robust measure of CBT competence that is suitable across all settings, contexts, and for all purposes. Nonetheless the CTS-R (Blackburn *et al.*, 2001) has been widely used as the benchmark for assessing clinical skill across research, training courses and clinical services for more than two decades. However, this was a pragmatically developed tool and there is a lack of empirical evidence supporting this position, thus the CTS-R has been criticised for poor validity, reliability and usability (Muse and McManus, 2013; Rayson *et al.*, 2021). Furthermore, the degree to which any scale provides a valid and reliable measure of CBT competence will be heavily influenced by the way the scale is implemented (e.g. number of assessors, assessor training, moderation, which sessions are selected, etc.) (Muse and McManus, 2013; Roth *et al.*, 2019). Thus it is important to avoid over-reliance on any single measure of CBT competence, to carefully consider not only which scale to use but how to implement it, and to be realistic about what conclusions can be drawn about a therapist's competence as a result of this assessment.

Theoretical models can be helpful in considering how to optimise learning from CBT competence assessments. Although it has received criticism, Kolb's experiential learning model

**Table 1.** An overview of available assessment methods for assessing CBT competence drawn from Muse and McManus (2013)

Assessment method	Commonly used tools*	Strengths	Challenges	Recommendations for use
<b>Multiple-choice questions</b> A lead-in statement or question followed by responses, from which one or more correct answer(s) is selected	<ul style="list-style-type: none"> <li>- Cognitive therapy awareness scale (Wright <i>et al.</i>, 2002)</li> <li>- Cognitive behavioural therapy knowledge quiz (Myles <i>et al.</i>, 2003)</li> <li>- Enhanced Cognitive Behaviour Therapy (CBT-E) (for eating disorders) (Cooper <i>et al.</i>, 2015)</li> </ul>	<ul style="list-style-type: none"> <li>- Most cost-efficient to implement</li> <li>- Quick and easy to implement</li> <li>- Easy to reliably mark</li> <li>- Little burden on therapists</li> <li>- Can be repeated pre- and post-training</li> <li>- Assess a breadth of declarative knowledge</li> </ul>	<ul style="list-style-type: none"> <li>- Assess basic knowledge or application of knowledge rather than skill</li> <li>- Paucity of standardised MCQs</li> <li>- Relevance to real-world clinical practice uncertain</li> <li>- Relationship with client outcomes unknown</li> </ul>	<ul style="list-style-type: none"> <li>- As a formative learning tool to develop basic knowledge within foundational training</li> <li>- To assess CBT knowledge acquisition as part of a broader summative assessment strategy in foundational training</li> </ul>
<b>Essays</b> Long-answer written responses that bring together ideas, evidence, and arguments to address a specific question	<ul style="list-style-type: none"> <li>- Requires creation of bespoke essay questions and standardised marking criteria</li> </ul>	<ul style="list-style-type: none"> <li>- Relatively cost-efficient</li> <li>- Easy to implement</li> <li>- Easy to reliably mark</li> <li>- Assess synthesis and communication of theory and research</li> <li>- Assess critical thinking and judgement</li> </ul>	<ul style="list-style-type: none"> <li>- Requires careful construction of suitable essay questions</li> <li>- Structured marking procedures needed to ensure consistency</li> <li>- Relevance to real-world clinical practice uncertain</li> <li>- Relationship with client outcomes unknown</li> </ul>	<ul style="list-style-type: none"> <li>- As a formative learning tool to support consolidation of knowledge within foundational and advanced training</li> <li>- To assess knowledge of theoretical and empirical literature as part of a broader summative assessment strategy in foundational and advanced training</li> </ul>
<b>Short-answer clinical vignettes</b> Open-ended, short-answer questions about the assessment, formulation and treatment of clients presented in written, audio or video vignettes	<ul style="list-style-type: none"> <li>- Video Assessment Task (Myles and Milne, 2004)</li> </ul>	<ul style="list-style-type: none"> <li>- Allows presentation of standardised clinical material</li> <li>- Feedback supports application of theoretical knowledge</li> <li>- Assess practical understanding of CBT as applied to case material</li> </ul>	<ul style="list-style-type: none"> <li>- Increased difficulty establishing reliable assessment of responses</li> <li>- Clinical scenarios are typically simplified thus may lack authenticity</li> <li>- Lack of standardised vignettes with clear marking criteria</li> <li>- Relationship with client outcomes unknown</li> </ul>	<ul style="list-style-type: none"> <li>- As a formative learning tool to develop basic clinical application of knowledge in foundational and advanced training</li> </ul>

(Continued)

Table 1. (Continued)

Assessment method	Commonly used tools*	Strengths	Challenges	Recommendations for use
<b>Case reports</b> Written reports in which a therapist explains and reflects upon the process of assessment, formulation, treatment and outcome with a CBT client	<ul style="list-style-type: none"> <li>- Requires creation of a standardised response template and marking criteria</li> </ul>	<ul style="list-style-type: none"> <li>- Feedback supports understanding in how to apply clinical knowledge</li> <li>- Promotes reflective practice</li> <li>- Assess practical understanding of assessment, formulation, and treatment strategies in CBT as applied to real case material</li> </ul>	<ul style="list-style-type: none"> <li>- Structured marking procedures needed to ensure consistency</li> <li>- Challenging to reliably mark</li> <li>- May not be sensitive to the impact of training</li> <li>- Relationship with client outcomes unclear</li> </ul>	<ul style="list-style-type: none"> <li>- As a formative learning tool to foster self-reflection and develop abilities in application of clinical knowledge within real-life contexts in foundational and advanced training</li> <li>- To assess practical understanding as part of a broader summative assessment strategy within foundational and advanced training</li> <li>- As part of a broader profile of evidence of competence for accreditation purposes</li> </ul>
<b>Standardised role-plays</b> Artificial simulations of clinical scenarios in which a therapist demonstrates clinical skills with an individual playing the role of a client Performance on key domains of competence typically rated on standardised rating scales	<ul style="list-style-type: none"> <li>- Performance-based measure of CBT-E (for role play performance in eating disorders), (Cooper <i>et al.</i>, 2017)</li> <li>- The same scales used to complete assessor-ratings of treatment sessions can be used (see below)</li> </ul>	<ul style="list-style-type: none"> <li>- Offer standardised scenarios across presentations and complexities</li> <li>- Overcome practical challenges of rating real clinical situations</li> <li>- Allow opportunity to practise new skills</li> <li>- Standardised measures support comparisons</li> <li>- Rating forms provide detailed corrective and developmental feedback</li> <li>- Assesses application of a range of generic and CBT-specific clinical skills</li> </ul>	<ul style="list-style-type: none"> <li>- Danger of artificial and simplified clinical scenarios</li> <li>- Requires skilful portrayal of clients</li> <li>- Several ratings are required for summative purposes</li> <li>- High resource implications for development and implementation</li> <li>- Independent assessors required for summative purposes</li> <li>- Relationship with client outcomes unknown</li> <li>- Questions raised about capacity to assess more complex skills</li> </ul>	<ul style="list-style-type: none"> <li>- As a formative learning tool to consolidate, practise and enhance clinical skills within standardised settings in foundational and advanced training</li> <li>- To assess clinical skills as part of a broader summative assessment strategy within foundational and advanced training</li> <li>- As part of a broader profile of evidence of competence for accreditation purposes</li> </ul>

(Continued)

Table 1. (Continued)

Assessment method	Commonly used tools*	Strengths	Challenges	Recommendations for use
<b>Client surveys</b> Standardised rating scales for gathering clients' perceptions of therapists	<ul style="list-style-type: none"> <li>- The patient report of therapy form (PRTF: Kuyken and Tsivrikos, 2009)</li> </ul>	<ul style="list-style-type: none"> <li>- Can form part of routine service evaluation or audit procedures</li> <li>- Assess application of generic and CBT specific clinical skills in real-world situations</li> </ul>	<ul style="list-style-type: none"> <li>- Can be difficult to obtain client ratings</li> <li>- Impacted by confounding client and context variables</li> <li>- Lack of standardised rating scales</li> <li>- Client satisfaction does not necessarily indicate good CBT practice</li> <li>- Limited evidence of relationship with client outcomes</li> </ul>	<ul style="list-style-type: none"> <li>- To provide useful contextual information to be used alongside case reports and performance ratings of live or recorded therapy sessions</li> <li>- To provide comparative feedback for therapists working within a given service</li> </ul>
<b>Supervisory assessments</b> Broad retrospective assessments based on supervisory observation of the therapists' performance in supervision over an extended period	<ul style="list-style-type: none"> <li>- Supervisor Rating Form (SRF: Barnfield <i>et al.</i>, 2007; Mathieson <i>et al.</i>, 2010)</li> <li>- Evaluation of Therapist's Behaviour Form (ETBF: Kuyken and Tsivrikos, 2009)</li> </ul>	<ul style="list-style-type: none"> <li>- Cost-efficient</li> <li>- Quick and easy to implement</li> <li>- Based on global insight into therapist competence over time and across situations</li> <li>- Assesses broad range of knowledge and skills</li> </ul>	<ul style="list-style-type: none"> <li>- Supervision often relies on case discussion rather than direct observation of skills</li> <li>- May be influenced by interpersonal biases</li> <li>- Limited evidence of relationship with client outcomes</li> </ul>	<ul style="list-style-type: none"> <li>- To provide sign-off of satisfactory completion of placement activities within training settings or for probation requirements</li> <li>- As part of a broader profile of evidence of competence for accreditation purposes</li> </ul>
<b>Self-ratings of treatment sessions</b> Therapists review a recording of a treatment session and rate their own performance on key domains of competence using a standardised rating scale	<ul style="list-style-type: none"> <li>- Cognitive Therapy Scale-Self (CTSS: Bennett-Levy and Beedie, 2007)</li> <li>- Student Self-Rating Form (SSRF: Barnfield <i>et al.</i>, 2007)</li> <li>- The same scales used to complete assessor-ratings of treatment sessions can also be used (see below)</li> </ul>	<ul style="list-style-type: none"> <li>- Cost- and time-efficient</li> <li>- Supports self-reflection</li> </ul>	<ul style="list-style-type: none"> <li>- Accurate self-appraisal is challenging</li> <li>- Practical challenges obtaining recordings</li> <li>- Relationship with client outcomes unclear</li> </ul>	<ul style="list-style-type: none"> <li>- Use regularly as a tool for self-reflection for trainee, novice and experienced therapists</li> <li>- Used regularly alongside supervisor ratings to identify learning needs within supervision, for trainee, novice and experienced therapists</li> <li>- Use within training settings to identify learning needs</li> </ul>

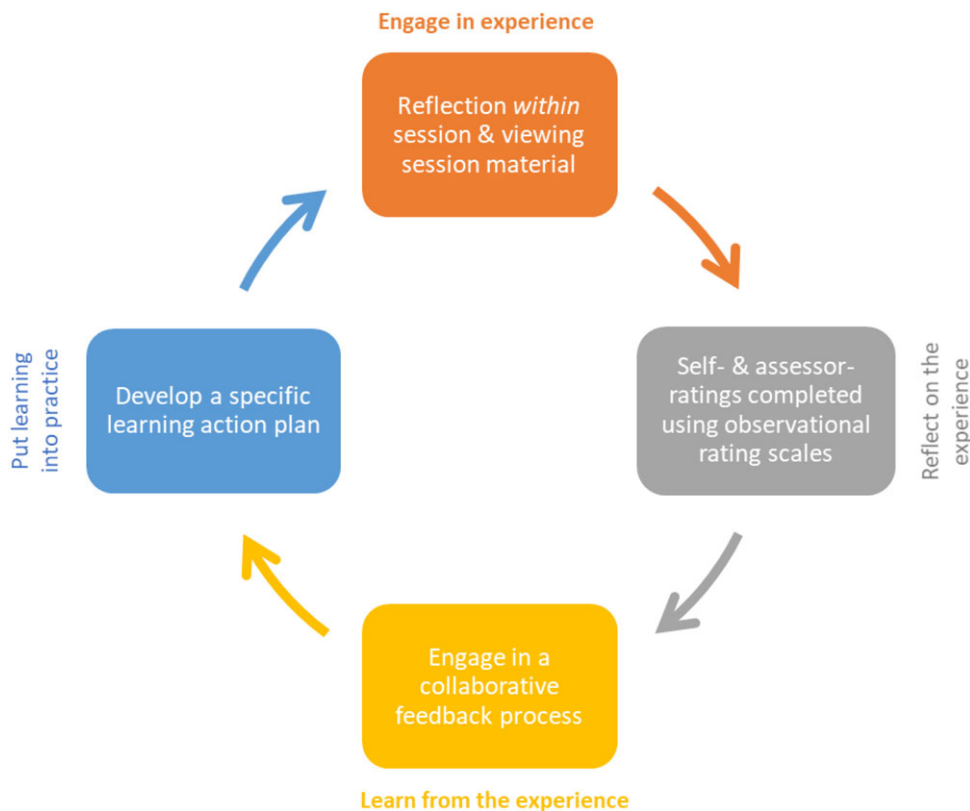
(Continued)

Table 1. (Continued)

Assessment method	Commonly used tools*	Strengths	Challenges	Recommendations for use
<b>Assessor-ratings of treatment sessions</b> Independent assessors or supervisors observe a treatment session ('live' or recorded) and rate the therapists' performance on key domains of competence using a standardised observational rating scale	Transdiagnostic scales: - Cognitive Therapy Scale (CTS; Young and Beck 1980; revised Young and Beck 1988) - Revised Cognitive Therapy Scale (CTS-R; Blackburn <i>et al.</i> , 2001) - The Cognitive Therapy Adherence and Competence scale (CTACS; Barber <i>et al.</i> , 2003) - The Cognitive Behaviour Therapy Scale for Children and Young People (CBTS-CYP) (Stallard <i>et al.</i> , 2014) - The University College of London (UCL) scale for Structured Observation (Roth, 2016) - Assessment of Core CBT Skills (Muse <i>et al.</i> , 2017) Problem-specific scales: - Yale Adherence and Competence Scale (for addictions) (YACS; Carroll <i>et al.</i> , 2000) - Cognitive Therapy Scale-Psychosis (CTS-Psy; Haddock <i>et al.</i> , 2001) - Cognitive Therapy Competence Scale (CTCP) for panic disorder (Liness <i>et al.</i> , 2021) - Cognitive Therapy Competence Scale for Social Phobia (CTCS-SP) (Von Consbruch <i>et al.</i> , 2011) - Competence Rating Scale for PTSD (CRS-PTSD: Dittman <i>et al.</i> , 2017) - Competence and Adherence Scale for Cognitive Behavioural Therapy (CAS-CBT) (for anxiety in youth). (Harstad <i>et al.</i> , 2021)	- Rating forms provide detailed corrective and developmental feedback - Standardised measures support comparisons - Allows direct assessment of skills within the complex reality of clinical practice - Assesses application of key CBT specific and general therapeutic skills	- Provides a limited 'snapshot' of therapist performance - Influenced by sampling biases - Practical challenges obtaining recordings - Achieving adequate assessor reliability is challenging - Several ratings are required for summative purposes - Assessment is resource intensive - Independent assessors required for summative purposes - Mixed evidence for relationship with client outcomes	- Can be used by supervisors as a formative learning tool within routine supervision for novice and experienced therapists - Use independent or supervisor ratings as part of a broader profile of evidence of competence for accreditation purposes - Use independent ratings to assess clinical skills as part of a broader summative assessment strategy within foundational and advanced training

\*This does not provide an exhaustive list of tools available to measure competence but identifies some of the most commonly used tools available in assessing competence in the delivery of individual CBT.





**Figure 5.** Using the experiential learning model (Kolb *et al.*, 2001) to embed skills-based CBT competence assessments within a continual process of action and reflection.

(Kolb *et al.*, 2001) provides a useful framework to guide therapists through key learning phases and can be easily embedded within CBT training, supervision and professional development practices. Kolb's model involves four components that interact within a continuous 'learning cycle': experience (engaging in an activity), observation (reflection on the experience), abstract conceptualisation (identifying learning), and active experimentation (putting learning into practice). Optimal use of assessments is made when a strategy for delivering and receiving feedback from CBT competence assessments is aligned with this continual process of action and reflection. Within Miller's (1990) hierarchical framework, the highest and most complex levels of competence to assess are the application of clinical skills in clinical simulations (such as role-plays) and real clinical practice settings. A widely used approach for assessing clinical skills in training and professional development settings is to use observational rating scales such as the CTS-R (Blackburn *et al.*, 2001) or ACCS (Muse *et al.*, 2017) to rate performance. The discussion below outlines ways both therapists completing competence ratings (referred to as 'assessors') and therapists receiving ratings (referred to as 'therapists') can use feedback from observational rating scales to support the cyclical learning process (see Fig. 5 for an overview).

The first phase of learning is engaging in an activity, in this case a therapeutic encounter within a treatment session or role-play scenario. Experience is a central component of the learning process, with initial engagement in the activity providing the therapist with concrete experience of their actions and an evaluation of the subsequent consequences (Kolb *et al.*, 2001). The therapist and assessor both need to be able to view the session. 'Live' *in vivo* viewing allows for a richer and more authentic insight. However, session recordings are more

practical and can also be revisited. Visual recordings are optimal because they provide rich contextual information (e.g. non-verbal behaviour), followed by audio recordings, with transcripts of a real session being useful but less so than recordings. Therapists may be reluctant to record routine therapy sessions due to feeling self-conscious or fearing negative client reactions. An 'audit-based' approach involving routine session recording normalises the process as well as providing a pool of recordings. This allows purposeful selection of recordings to demonstrate competence or seek feedback on skills in working within a particular problem area or using a specific CBT model or intervention. This also enables supervisors to reduce therapist selection biases by periodically reviewing supervisee caseloads and reviewing recordings from those not brought to supervision (Padesky, 1996). Adherence to ethical and legal guidelines is also supported by using standardised procedures to guide clients' informed consent and storage of recordings. The use of role-plays circumvents these practical issues but does require careful development and adept portrayal of appropriate, relevant, contextualised and realistic scenarios. Additional contextual information is often necessary to enable assessors to make informed ratings. This may include stage of therapy, nature of presenting problem, formulation, client goals, session agenda, outcome data, and relevant homework or in-session materials (e.g. questionnaires, diaries, thought records, etc.). Weck *et al.*'s (2014) findings suggested that ratings can reliably be made based on the middle third of a session, which would reduce time demands. However, it is more challenging to capture or reliably rate specific aspects of competence (Weck *et al.*, 2014), thus undermining using segments for summative purposes or for providing overall performance feedback. It has been suggested that as many as three clients per therapist and four sessions per client are needed to achieve suitable reliability (Dennhag *et al.*, 2012). Collecting multiple assessors' ratings of the same session can also increase reliability (Vallis *et al.*, 1986) and reduce halo effects (Streiner and Norman, 2003). Thus the ideal approach to summative assessment would be for multiple assessors to rate a number of sessions, drawn across different clients or role-play scenarios. As this approach is prohibitively resource intensive, competence judgements within training and accreditation contexts are often based on three or four full sessions per therapist.

Phase 2 of Kolb's learning cycle involves purposeful and reflective observation of what happened within the CBT treatment or role-play session. Observational CBT competence rating scales completed by assessors and therapists (i.e. self-ratings) can support this reflective process. The assessment strategy should outline which scale is most suitable for the given purpose and context. Both parties need training in how to use the scale and need to establish how the scale is being used. For example, whether the scale is used to provide a broad overview of competences or to focus in on a specific skill? It is also important to be clear about what is considered good performance. This will vary according to the developmental level of the therapist and should be tailored to the individual therapist's learning goals as well as any specified benchmarks. Whichever scale is being used, the following general guidelines can be helpful when using observational rating scales:

Refer to item descriptors to anchor ratings on each item.

- Make notes whilst viewing the session but wait until the full session recording has been viewed to provide numerical ratings and finalise feedback.
- Score each item on the scale independently to avoid relying on an overall global impression.
- Client progress should not influence the rating provided.
- Refer back to rating manuals to support consistency and prevent assessor drift.

The third phase refers to drawing on reflective observations to form abstract concepts and general principles (Kolb *et al.*, 2001). This involves making sense of and learning from feedback obtained through self and assessor ratings completed using observational rating scales. Giving and receiving feedback can be uncomfortable, especially when feedback is corrective or summative. However,

assessors can implement strategies to support this process (James, 2015; Gonsalvez and Crowe, 2015; Kennerley, 2019). Such strategies may include giving a written or verbal feedback summary alongside numerical scale ratings to provide valuable formative feedback. Rating scales can be used to inform this feedback summary by providing a ‘competence profile’ highlighting areas of strength and those where improvement is needed. As well as identifying opportunities for skills development, it is important to recognise and highlight strengths to ensure these are maintained, enhanced and reinforced. The feedback should be specific, giving concrete examples drawn from the rating scale and session material. The summary should also identify key ‘take home’ messages. This is especially important for novice therapists, who may feel overwhelmed and find it hard to identify which the most important issues are. The assessment purpose, context and assessor–therapist alliance will also impact how feedback will be received and should therefore shape the content and tone. For example, a novice trainee completing a summative assessment may feel nervous and less confident in their abilities. Here the assessor–therapist alliance might be used to create a setting where the trainee feels safe enough to hear and engage with the feedback. Then, the key feedback focus may be to encourage motivation and self-esteem. There is a danger that therapists passively ‘receive’ feedback ‘delivered’ by an assessor. Yet feedback should be a collaborative and dynamic endeavour involving Socratic methods of learning (Padesky, 1996; Kennerley, 2019; Kennerley and Padesky, 2023). The more active and involved in the process the therapist can be, the more they can take control of and reflect on their own learning progress (Nicol and Macfarlane-Dick, 2006). Therapist engagement with the learning experience is likely to be enhanced by incorporating therapist preferences about what they would like feedback on, when, and in what format. For example, some may prefer to receive written feedback prior to supervision to allow time to digest this, others may prefer to explore feedback within supervision; some choose to hear critical statements first, others prefer to learn what has been done well before hearing what might be improved. Completing self-assessments allows therapists to identify their own strengths, deficits and needs before receiving external feedback. This also allows comparisons between assessor and therapist ratings, therefore identifying discrepancies in self-view of competence and offering more perspectives for reflection.

The final phase is a future planning process, namely, how to put learning into practice and apply the abstracted principles across contexts (Kolb *et al.*, 2001). This stage is vital for generalisation and application of learning within future therapeutic activities, which can themselves be reflected upon. It can be helpful for therapists to develop a specific learning action plan to support this. Feedback from rating scales can identify which areas of knowledge and skill the therapist wishes or needs to develop, thus shaping individualised learning goals. The plan also needs to outline *how* these can be achieved. Assessors can facilitate this by including ‘feedforward’: constructive guidance about ways competence could be further developed. This might include corrective feedback, such as offering suggestions of alternative more skilful ways of working. It can also identify specific strategies for supporting development of declarative knowledge (e.g. suggested reading, sharing case studies, etc.) and procedural skills (e.g. experiential training, role-plays in supervision, further clinical experience, etc.). Supervision is essential in supporting competence development (Rakovshik *et al.*, 2016; Watkins, 2011) and may be especially helpful in facilitating this final phase of learning. Well-structured supervision offers a secure environment within which therapists can sensitively explore their understandings of, and reactions to, feedback. Supervision also supports movement away from an information transmission model of delivering feedback. Instead, dialogue can be used to collaboratively co-construct meaning, thus supporting the therapist in understanding and internalising feedback (Nicol and Macfarlane-Dick, 2006). Through a mutual process of discovery, therapist and supervisor can create and implement a developmentally appropriate learning action plan that will ultimately enhance client care. Although it may be preferable from a developmental perspective for rating feedback to be provided by the supervisor, ratings completed by independent assessors can be usefully explored. Feedback can also be provided by peer-

supervisors, as it is not always possible or necessary for the supervisor to have an ‘expert’ role. Viewing clips from session recordings may further illustrate feedback and aid discussion. Supervision also provides opportunity for modelling particular skills and for experiential activities (e.g. role-play, ‘chair work’). This can help consolidate learning, prime for more fluent performance, and enhance procedural knowledge about how to implement new skills (Bennett-Levy, 2006).

## Conclusions

Much progress has been made in defining the range of competences that constitutes ‘CBT competence’. This has led to examination and evaluation of different ways of assessing, monitoring and enhancing therapists’ competences. Although the assessment of CBT competence is a complex and challenging issue, it remains a vital component in ensuring the ongoing delivery of high-quality CBT. Thus there is a need to encourage a shift in culture, whereby the allocation of resources to the assessment of CBT competence is more clearly recognised and prioritised. There is a particular need for CBT competence monitoring to be more routinely embedded within routine clinical practice to facilitate continued professional development, self-reflection and maximise the efficacy of supervision. A range of different methods can be used to assess therapists’ generic and CBT-specific knowledge and skills, all of which have inherent advantages and disadvantages. There is a need to continue to build upon and improve the reliability, validity and feasibility of current assessment methods as well as exploring innovative methods of assessing competence. Due to the multi-faceted nature of CBT competence and the limitations of existing methods of assessing competence, a standardised ‘one size fits all’ approach cannot be taken when determining how best to assess CBT competence. Instead, a pragmatic assessment strategy needs to be specified and implemented according to the specific context and purpose of the assessment. This must consider what aspects of competence to assess, which method or combination of methods to use, and how these methods will be implemented (i.e. when and by whom). This should also include a strategy for delivering and receiving feedback to enhance formative functions and optimise learning. Formative feedback is important in supporting acquisition and consolidation of competence for trainee or newly qualified therapists and is also essential for more experienced therapists to support lifelong learning and reduce therapist drift. Future development in the area may consider how best to support those assessing competence – that is, how we assess, develop and monitor skill in assessing competence.

### Key practice points

- (1) There is a need for a culture shift in which ongoing and career-long assessment of CBT competence is supported, encouraged and valued. It is particularly important to consider pragmatic and flexible ways to routinely embed assessments based on direct observation of skills (in sessions or role-plays) into routine supervision or audit practices to support lifelong learning.
- (2) Collaboration is key. Therapists should be firmly situated at the heart of CBT competence assessed by others. Approaching assessment as a collaborative venture whereby the therapist being assessed is actively engaged in the process promotes independent learning and fosters self-reflection.
- (3) It is important to strengthen the formative function of CBT competence assessments in order to optimise learning. Experiential learning models and effective communication models can be used as frameworks to guide effective delivery and receipt of feedback and support therapists along their individual learning journey.
- (4) Caution must be exercised when making judgements about CBT competence based on limited evidence, especially for summative purposes. A multi-source, multi-informant, multi-method practice portfolio provides the most comprehensive and robust assessment of CBT competence.
- (5) There is not a ‘one size fits all’ approach to assessing CBT competence. Instead, careful consideration needs to be given to which assessment methods to use and how and when they should be implemented given the specific context and purpose.

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