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Development of the Therapist Empathy Scale

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Abstract

Background—Few measures exist to examine therapist empathy as it occurs in session.

Aims—A nine-item observer rating scale, called the Therapist Empathy Scale (TES), was developed based on Watson's (1999) work to assess affective, cognitive, attitudinal, and attunement aspects of therapist empathy. The aim of this study was to evaluate the inter-rater reliability, internal consistency, and construct and criterion validity of the TES.

Method—Raters evaluated therapist empathy in 315 client sessions conducted by 91 therapists, using data from a multi-site therapist training trial (Martino et al., 2010) in Motivational Interviewing (MI).

Results—Inter-rater reliability ($ICC = .87 - .91$) and internal consistency (Cronbach's $\alpha = .94$) were high. Confirmatory factor analyses indicated some support for single-factor fit. Convergent validity was supported by correlations between TES scores and MI fundamental adherence (r range $.50 - .67$) and competence scores (r range $.56 - .69$). Discriminant validity was indicated by negative or nonsignificant correlations between TES and MI-inconsistent behavior (r range $.05 - -.33$).

Conclusions—The TES demonstrates excellent inter-rater reliability and internal consistency. Results indicate some support for a single-factor solution and convergent and discriminant validity. Future studies should examine the use of the TES to evaluate therapist empathy in different psychotherapy approaches and to determine the impact of therapist empathy on client outcome.

Keywords

empathy; therapist empathy; psychotherapy; psychotherapy process; adherence; therapist adherence and competence

Across psychotherapeutic approaches, therapist empathy has been identified as an important nonspecific factor in treatment (Elliott, Bohart, Watson, & Greenberg, 2011; Luborsky, Singer, & Luborsky, 1975) and found to exert medium-sized but variable effects on client outcomes (Bohart, Elliott, Greenberg, & Watson, 2002; Elliott et al., 2011). Definitions of therapist empathy have varied (Bohart & Greenberg, 1997), though they generally have emphasized the therapist's ability to understand the client's experience and communicate this understanding to the client (Rogers, 1957; Truax & Carkhuff, 1967). The expression of therapist empathy within sessions is considered a complex process (Bohart et al., 2002; Greenberg & Rushanski-Rosenberg, 2002) comprised of several components: affective (relating and responding to the client's emotions with similar emotions), cognitive (the intellectual understanding of client experiences; Duan & Hill, 1996; Gladstein, 1983) and attitudinal as demonstrated by warmth and acceptance (Greenberg & Rushanski-Rosenberg, 2002). Other components include the ability to set aside one's own views to enter the client's world without judgment or prejudice (Rogers, 1975), and attunement to momentary changes in the client's presentation, meaning, or concerns (Thwaites & Bennett-Levy, 2007; Watson, 2002; Watson & Prosser, 2002).

A review of behavioral correlates of therapist empathy suggests that therapists may demonstrate empathy in session in several ways, including: 1) communicating with an interested, concerned, expressive tone of voice; 2) demonstrating a level of emotional intensity similar to the client's; and 3) reflecting clients' statements, nuances in meaning, or unsaid but implied meanings back to them (Watson, 2002). While often considered an interactional process between therapist and client (Barrett-Lennard, 1981), therapist empathy seems to vary more between therapists than to fluctuate within therapists across the clients they treat (Truax et al., 1966). Therefore, most discussions of therapist empathy have focused on therapists' behaviors and experiences rather than their clients' reactions to the therapists per se.

Therapist empathy assessment methods include therapist self-report ratings (Barrett-Lennard, 1962; King & Holosko, 2011), client ratings (Barrett-Lennard, 1962; Mercer, Maxwell, Heaney, & Watt, 2004; Persons & Burns, 1985), written analogue tasks (Miller, Hedrick, & Orlofsky, 1991), and observer ratings (Elliott et al., 1982; Truax & Carkhuff, 1967; Watson, 1999). Therapist self-reports have been shown to be unreliable, with therapists over-rating their empathy as compared to client report or objective observer ratings (Barrett-Lennard, 1962; Kurtz & Grummon, 1972). Further, the relationship between therapist self-rated empathy and client outcomes appears to be weak (Bohart et al., 2002) or absent (Barrett-Lennard, 1981; Gurman, 1977). In client reports of therapist empathy, clients label therapist behaviors such as self-disclosure and nurturance as empathic (Bachelor, 1988; Watson & Prosser, 2002), reflecting therapist behaviors that may co-occur with therapist empathy but are not necessarily components of it. Written analogue assessments of

therapist empathy, such as the Helpful Responses Questionnaire (Miller et al., 1991), may not correlate strongly with direct measures of empathic reflections in client sessions (Miller & Mount, 2001) and are considered a less-preferred alternative to direct observational assessment (Miller et al., 1991).

Some observer therapist empathy rating scales exist, such as the Response Empathy Rating Scale (Elliott et al., 1982) and the Accurate Empathy Scale (Truax & Carkhuff, 1967). These scales offer the advantage of providing objective and reliable information useful for psychotherapy process-outcomes research or supervisory feedback (Elliot et al., 2011). However, Watson and Prosser (2002) note limitations of these measures: they reflect only some components of therapist empathy (e.g., Truax & Carkhuff, 1967), include assessment of client responses rather than focusing solely on therapist behavior (e.g., Elliott et al., 1982), or assess nonverbal behaviors that limit their application to videotaped or directly observed therapy sessions (e.g., Watson, 1999). Independent treatment integrity rating scales, such as the Cognitive Therapy Adherence and Competence Scale (Barber, Liese, & Abrams, 2003) or the Motivational Interviewing Treatment Integrity Scale (Moyers, Martin, Manuel, Hendrickson, & Miller, 2005), often include a single item providing a global rating of therapist empathy. Single rating therapist empathy scales may not fully capture all the components of empathy (i.e., cognitive, affective, attitudinal, attunement) and are not likely to be used to examine therapist empathy across different therapy protocols in that these scales have been tied to a particular therapy approach.

Watson (1999) identified several observable therapist behaviors indicative of empathy and developed an observer-rated Measure of Expressed Empathy scale that included overlapping components of therapist empathy across its nine items: therapist's concern for the client, expressivity of voice, capturing the intensity of client feelings, warmth, attunement to the client's inner world, communicating an understanding of the client's meanings or cognitive framework, communicating understanding of the client's feelings and inner experiences, responsiveness to the client, and looking concerned in facial expression or body posture. These items were construed as collectively capturing the higher-order category of therapist empathy in that they conceptually overlapped with one another (Elliott et al., 2011). Intra-class correlation coefficients calculated on a sample of 16 rated client sessions indicated fair to excellent inter-rater reliability (.51 – .85; Cicchetti, 1994). A total scale score showed a significant correlation between observer-rated therapist empathy and client ratings of therapist empathy ($n = 15$, $r = 0.66$, $p < .01$; Watson, 1999). Despite its promise as an observer rating scale assessing multiple components of therapist empathy, the Measure of Expressed Empathy scale is limited by its initial testing on a small sample of client sessions, absence of factor analysis to support its purported single factor, and applicability to videotaped client sessions only.

In this report we present the development of an observer-rated adaptation of Watson's (1999) Measure of Expressed Empathy, called the Therapist Empathy Scale (TES), to assess the observable and overlapping cognitive, affective, attitudinal, and attunement aspects of therapist empathy in audiotaped, rather than videotaped, psychotherapy sessions. Like the Measure of Expressed Empathy scale, the TES was designed to be used across different psychotherapy protocols or approaches, akin to broad based treatment integrity rating

systems such as the Yale Adherence and Competence Scale used to capture the proficiency in which therapists deliver a variety of psychotherapeutic approaches (Carroll et al., 2000). Data to evaluate the TES are taken from a study on training therapists in motivational interviewing (MI), a person-centered, empirically supported psychotherapy designed to help enhance motivation for change (Lundahl, Kunz, Brownell, Tollefson, & Burke, 2010; Miller & Rollnick, 2012; Smedslund et al., 2011). Therapists provided audiotaped sessions with substance-using clients in which the therapist used MI (Martino et al., 2010). All sessions were independently rated for therapist MI adherence and competence using the Independent Tape Rater Scale (ITRS), a psychometrically established measure of MI integrity that captures both the fundamental person-centered or relational aspects of MI and more advanced strategic or technical aspects of MI used to directly elicit clients' motives for change (Martino, Ball, Nich, Frankforter, & Carroll, 2008). Notably, the fundamental MI strategies (e.g., reflective listening skills) are presumably closely linked to the capacity of therapists to express empathy within MI sessions (Miller & Rose, 2009).

We present reliability, confirmatory factor analysis, and criterion validity data for the TES. We predicted that the TES items would be reliably rated and converge to form a single factor reflecting a higher-order category of therapist empathy based on all the individually assessed components. We hypothesized that TES and the ITRS-derived fundamental and advanced MI strategy scores would be positively associated, with larger magnitudes of association occurring between therapist empathy and fundamental MI strategy scores than advanced MI strategy scores. In addition, we expected TES scores to show modest positive correlations to scores derived from an alternative established measure of therapist empathy, the Helpful Response Questionnaire (Miller et al., 1991). Finally, we expected therapist empathy scores to be negatively associated with an index of MI inconsistency derived from the ITRS. Because data for the TES study were taken from a clinician training study, client outcome indicators and measures of working alliance were not available.

Method

Overview of Original Study Protocol

Details about the original study's aims, methods, and results have been published previously (Martino et al., 2010). The study, from which these data are drawn, compared three training strategies in MI in a randomized controlled trial conducted at twelve outpatient substance abuse community treatment programs in the State of Connecticut, USA. Programs were randomized to one of three training conditions (self-study, expert-led training, or train-the-trainer). Ninety-two therapists received the training strategy to which their program had been randomly assigned (self-study = 31; expert-led = 32; train-the-trainer = 29). Assessments were conducted at baseline, after workshop training, after supervision, and at a 12-week follow-up.

Therapist adherence and competence in MI were the main outcome measures for the original study. Because this was a clinician training study, client outcome indicators and measures of working alliance were not obtained. Trained independent raters provided ratings of therapist empathy, adherence, and competence, at baseline, post-workshop, post-supervision, and a 12-week follow-up using the TES and ITRS (both described below).

Participants

Participating therapists were employed at least 20 hours per week and treated English-speaking substance-using clients. Therapists were excluded from the study if they had received recent MI supervision or workshop training. All study procedures were reviewed and approved by the Yale University School of Medicine Human Investigation Committee, and all therapists provided written informed consent. Of therapists who consented to participate in the study, ninety-one (99%) provided at least one client session for analysis. Therapists were primarily female (65%) and Caucasian (82%), and most held a master's degree (54%) or bachelor's degree (23%). Therapists had been employed at their program for a mean of 4.75 years ($SD = 4.01$) and had received little previous MI training (mean hours = 0.92, $SD = 2.79$).

Measures

Therapist Empathy Scale (TES)—This rating scale was adapted from the Measure of Expressed Empathy (MEE; Watson, 1999). Items from the MEE were re-written to refer only to therapist speech and tone of voice, behaviors that could be assessed from an audiotape. One MEE item referring to the therapist looking concerned was eliminated, as this could not be assessed in audiotaped samples. It was replaced by an item which evaluated the extent to which the therapist's communicated nonjudgmental acceptance of the client's feelings or inner experiences, consistent with several definitions of empathy (Greenberg & Rushanski-Rosenberg, 2002; Rogers, 1975). The nine TES items and their descriptions are listed in Table 1. In contrast to the 9-point MEE rating scale, TES items are rated on a 7-point Likert-type scale to be consistent with the ITRS rating system described below, with lower values indicating the absence of the targeted component of empathy and higher values indicating frequent or extensive demonstration of it (1 = not at all, to 7 = extensively).

Independent Tape Rater Scale (ITRS)—The ITRS (Ball, Martino, Corvino, Morgenstern, & Carroll, 2002) is a reliable and valid measure (Martino et al., 2008; Santa Ana et al., 2009; Gibbons et al., 2010) that assesses adherence and competence in MI as well as strategies inconsistent with MI. It has been used in several large multi-site effectiveness trials (Ball et al., 2007; Carroll et al., 2006; 2009) and the original clinician training trial upon which this study is based (Martino et al., 2010). Raters use a 7-point Likert-type scale to reflect the frequency or extensiveness of each MI strategy (adherence: 1 = not at all, to 7 = extensively) and the skill or competence with which the strategy is deployed (competence: 1 = very poor, to 7 = excellent). A prior confirmatory factor analysis of ITRS supported a two-factor solution (Martino et al., 2008) for the sum total of MI consistent items, representing the mean scores for five fundamental MI strategies (e.g., reflection) and five advanced MI strategies (e.g., heightening discrepancy between substance use and goals, values, or self-perceptions; Martino et al., 2008). The mean adherence score for five MI-inconsistent items (e.g., unsolicited advice, direct confrontation) is also calculated, though confirmation of this "factor" was not possible because of the items' infrequency in sessions across prior studies (Martino et al., 2008; Santa Ana et al., 2009; Gibbons et al., 2010). Intraclass correlation coefficients (Shrout & Fleiss, 1979) in the original study were good to excellent for the MI factors: fundamental MI adherence = .88; advanced MI adherence = .

87; fundamental MI competence = .87, advanced MI competence = .68; MI-inconsistent adherence = .91 (Martino et al., 2010).

Independent tape rater training—Twelve raters were trained to rate the audiotaped sessions using the ITRS and TES. All raters were blinded to study training condition, assessment point, and program. Raters attended seminars to learn how to rate ITRS and TES items and then rated an identical set of 18 calibration tapes selected randomly from the larger pool of study tapes, which were used to evaluate ITRS and TES item inter-rater reliability (see Martino et al., 2008 for detailed ITRS reliability findings).

Helpful Responses Questionnaire (HRQ)—The HRQ (Miller et al., 1991) was used as an alternate form of therapist empathy assessment. This written questionnaire presents six hypothetical client statements and asks the therapist to write what he or she would say in response to each client statement. Responses are scored on a five-point ordinal scale indicating the depth of reflection, using concepts from the Accurate Empathy Scale (Truax & Carkhuff, 1967) and Gordon's (1970) description of active listening. A total score is obtained by summing the reflective depth scores for all six items (range = 6 – 30), with higher scores indicating greater demonstration of therapist empathy. Four raters were trained to score the HRQ; these raters did not rate sessions using the ITRS or TES. Raters were blinded to study training condition, assessment point, and program. Raters attended a 4-hour seminar to learn the HRQ scale and then rated an identical sample of 40 randomly selected protocol HRQs. Inter-rater reliability for HRQ reflective depth scores was excellent (ICC = .95).

Statistical Analyses

Reliability—We calculated TES scale item reliability using (Shrout & Fleiss, 1979) two-way mixed model (3.1) intraclass correlation coefficients (ICCs), with item ratings as the random effect and raters as the fixed effect. Cronbach's alpha was also calculated.

Construct validity—First, we screened data to determine whether the sample could be combined over assessment time points and therapist training conditions, using three-level intercept-only mixed-effects regression models (level 1: repeated measures, level 2: therapist, level 3: training condition) with intercept entered as fixed and other factors as random (Tabachnick & Fidell, 2007). Larger intraclass correlations for level 2 or level 3 factors would indicate a significant proportion of the variability in empathy score was related to differences between participants or training conditions as compared to variability within either factor.

To test for the scale's hypothesized single construct of therapist empathy, we conducted confirmatory factor analysis using structural equation models with AMOS (6.0) software (Arbuckle, 2005) and full information maximum likelihood estimation. Several indices were used to determine model fit (Marsh, Balla, & McDonald, 1988; Yadama & Pandey, 1995): nonsignificant ($p > .05$) chi-square goodness-of-fit index, $\chi^2/\text{degree of freedom ratio} < 2$, normed fit index (NFI), incremental fit index (IFI) and comparative fit index (CFI) $> .90$, and root mean square error of approximation (RMSEA) $< .10$. Because confirmatory factor

analysis solution propriety is affected by sample size (Gagne & Hancock, 2006; Marsh et al., 1988; Yadama & Pandey, 1995), we relied on the preponderance of evidence to determine whether to accept the single factor model. To provide multiple opportunities to examine factor structure in our repeated measures data and to account for concerns related to sample size, models were run separately at each time point as well as for all time points combined.

Criterion validity—To estimate criterion validity, we calculated correlations between therapist empathy and ITRS factors representing fundamental and advanced MI adherence and competence, as well as HRQ scores to see the degree to which these scores converged. We also examined the correlations between therapist empathy and MI-inconsistent behavior to see if the scores would diverge as predicted.

Results

Data Screening

This study contains data at each of four assessment time points from therapists who submitted an audiotaped client session. Retention rates in the original training study were good, and recorded client sessions were provided by 88–95% of therapists at each assessment point, with variation due to therapist compliance, recording operator error, and equipment failure. Sample sizes across time points are: baseline = 87; post-workshop = 84; post-supervision = 78; 12-week follow-up = 66, with a combined total = 315 client sessions. TES and other data were screened for normality and linearity. On the TES items, eight multivariate outliers were found in the total sample. Analyses were run with and without these outliers. No interpretive differences emerged. Therefore, results are presented for the full sample.

TES Reliability

Descriptive statistics for the entire sample and ICC reliability estimates for each of the TES items are presented in Table 2. Guidelines suggest that ICCs below .40 are considered poor, .40–.59 are fair, .60–.74 are good, and .75 or above are considered excellent (Cicchetti, 1994). Using the sample of 18 reliability tapes rated by all raters, ICCs for all TES items were in the excellent range. The mean total TES score across therapists and assessment time points was 4.93 (SD = 0.89), reflecting ‘quite a bit’ of expressed empathy. Cronbach’s alpha among the 9 items was .94, indicating high scale reliability between items.

Intra-class correlations were calculated from the random-effects regression model for therapist ($\rho = .078$) and training condition ($\rho = .019$), indicating that 7.8% of the variance in empathy scores was related to differences between therapists as compared to differences within therapists, training conditions, and over time, while only 1.9% variance in empathy was related to differences between training conditions as compared to differences within training conditions, therapists, and over time. Based on this finding, and to accommodate the repeated-measures nature of the available data, we present factor analyses and correlations separately at each time point as well as combined across time points. As only a small portion of variance was attributable to differences between training conditions, we do not present findings separated by therapist training condition.

TES Factor Structure

Table 3 presents fit indices from confirmatory factor analyses of our predicted one-factor model for client sessions at each assessment time point separately and combined across all assessment time points.¹ The hypothesized single factor model demonstrated a good fit at all assessment time points using NFI, IFI, and CFI, with the exception of NFI just below criterion at the post-workshop assessment point. Chi-squares, chi-square degrees of freedom ratios, and RMSEA were indicative of model fit at 12-week follow-up but less so at other time points or for the sample overall. Based on the reasonable fit obtained in these analyses, we calculated mean TES scores from the nine items for each rated session to represent the construct of therapist empathy.

Criterion Validity

Table 4 displays correlation coefficients between TES scores and fundamental and advanced MI strategy adherence and competence and MI-inconsistent adherence scores. As expected, fundamental adherence and competence in MI showed large significant correlations with TES scores (range = .50–.69) for the overall sample and at each time point. TES scores were also significantly correlated with advanced MI adherence and competence (range = .27–.51), though the magnitude of associations was less than those found for fundamental MI strategies. Correlations between TES and HRQ scores were small ($r = .14$) for the entire sample and non-significant at each assessment time point. Finally, correlations between therapist empathy and MI-inconsistent behavior scores were non-significant with the exception of a negative correlation at the 12-week follow-up assessment time point ($r = -.33$).

Discussion

This study examined the initial psychometric properties of the TES, an independent observer rating scale of therapist empathy adapted from Watson's (1999) MEE. The TES scale items demonstrated excellent inter-rater reliability. In addition, some support for the scale's single factor structure was indicated by fit indices in confirmatory factor analyses. Comparison to the original MEE is not available as the MEE has not been subject to factor analysis. Finally, the TES showed criterion-related validity in that it converged in expected ways with indices of therapist MI adherence and competence and diverged from therapists' MI inconsistent behaviors. Thus, the TES shows preliminary promise as a reliable and valid observer-rated therapist empathy scale assessing multiple aspects of therapist empathy in audiotaped client sessions.

The relatively good fit of a single factor model for the TES lends support to the notion that therapist empathy is a higher-order factor based on overlapping components of empathy.

¹As recommended by Kelloway (1998), we compared the hypothesized model with two alternative ones to determine if models other than the one we proposed might provide a better description of the data instead of relying solely on a model's absolute fit. Specifically, we examined two 4-factor models to see if the empathy components (cognitive, affective, attitudinal, and attunement) loaded hierarchically onto a broader empathy factor: 1) one in which items were permitted to load onto only one of the four component factors, and 2) one in which the items were allowed to load onto more than one factor, consistent with the presumed overlap of items with components presented in Table 1. The 4-factor alternative models had poor fit (significant chi-square, chi-square/degrees of freedom ratios > 2, RMSEA > .10) and were suboptimal to the hypothesized single factor model in chi-square difference tests. These analyses are available upon request from the first author.

Elliott and colleagues (2011) note that some definitions of empathy focus on the development of empathic rapport through the therapist's warm, compassionate, accepting attitude; other definitions focus on the ongoing attempts to stay attuned to changes in client meaning or feeling; and still others definitions are based on therapist's attempts to understand the client's experiences. However, these different components of empathy are not mutually exclusive and may co-occur. In this study, nine TES items assessed the degree to which the therapists were able to accurately understand and articulate their clients' feelings and thoughts in a nonjudgmental, accepting, and genuinely concerned manner, while remaining open to changes or shifts in their clients' experiences during the session, consistent with Watson's (1999) work. The high internal consistency of ratings among these items, combined with the CFA single factor findings across multiple assessment points, suggest that the components of the therapists' empathic skills (i.e., affective, cognitive, attitudinal, attunement) coalesced such that therapists in this study were prone to express empathy across multiple component areas in similar degrees rather than to vary widely in their expression of empathy in any one area. This finding raises the question about the extent to which the 9-item TES would psychometrically outperform a shorter global empathy rating scale that attempts to tap the same construct (e.g., a four-item scale assessing cognitive, affective, attitudinal, and attunement aspects of empathy).

Convergent validity was supported by moderate to large associations between TES scores and indices of MI adherence and competence. As predicted, TES scores were more strongly associated with fundamental MI strategies than with advanced strategies used to directly elicit clients' motives for change, consistent with the emphasis on person-centered and empathic responding in fundamental MI skills (Miller & Rose, 2009). Unexpectedly, correlations between TES and HRQ scores were insignificant at all four study assessment points and only a small positive correlation was obtained when data were combined across all time points. Given the strong significant associations between TES and MI integrity rating scores, this finding contributes to the literature that has emphasized the inadequacy of written analogue tasks for measuring therapist empathy (Miller & Mount, 2001; Miller et al., 1991).

The TES also showed some predicted divergent validity in that the TES scores were negatively correlated with therapists' MI-inconsistent adherence at the follow-up assessment point. However, the correlations were weaker and not significant in therapists' MI sessions overall, at baseline, following workshop training, or after a period of post-workshop supervised practice. These findings may be due to the low frequency of MI-inconsistent behavior in this study, which resulted in a restricted range of MI-inconsistent scores (Martino et al., 2010). Alternatively, therapist empathy and some MI-inconsistent behavior may not necessarily be incompatible. Moyers and colleagues (2005) examined therapist interpersonal skill, a latent construct including single-item observer ratings of therapist warmth and empathy, in the context of MI-inconsistent behavior. Overall, correlations between MI-inconsistent behavior and therapist interpersonal skill were negative. However, when therapists acted in MI-inconsistent ways while demonstrating high levels of warmth and empathy, they achieved the same level of in-session client involvement as in sessions without MI-inconsistent behavior and equivalent interpersonal skill. A similar phenomenon with therapists demonstrating empathy while engaging in some MI-inconsistent behavior

may have diminished the strength of association between TES and MI inconsistency scores in our study.

While this study did not include client outcomes, previous studies indicate a relationship between therapist empathy and client outcomes, with medium-sized associations in meta-analyses ($r = .32$; Bohart et al., 2002; $r = .31$, Elliott et al., 2011) even when controlling for other client and treatment factors (Burns & Nolen-Hoeksema, 1992). Although causality cannot be inferred, these results are consistent with Roger's (1957) assertion that empathy is necessary for client change and raise questions about how therapist empathy and client outcome are linked. Therapist empathy may directly impact client outcomes or mediate them by increasing compliance with treatment, providing a corrective emotional experience, promoting cognitive-affective processing or self-healing (Bohart et al., 2011), or increasing client motivation (Moyers & Miller, 2012). Therapist empathy also may facilitate the working alliance (Ackerman & Hilsenroth, 2002; Watson & Geller, 2005), or the bond between client and therapist and their agreement about therapy tasks and goals (Bordin, 1979), which has been found to exert direct medium effects on client outcomes (Horvath & Bedi, 2002; Martin, Garske, & Davis, 2000; Zuroff & Blatt, 2006). Further research is needed to understand the relationships among these variables. For example, data from randomized clinical trials with multiple session-specific ratings of therapist empathy, alliance, and client outcomes in earlier and later sessions could be examined to provide some indication of temporal sequence.

This study also raises questions about the degree to which therapists can be trained to be more empathic with their clients. Presumably, extensive training and supervision in the heavily person-centered MI, as provided in the expert and train-the-trainer conditions of the original study, might have improved therapists' empathic skills more so than in the minimal training self-study condition. Surprisingly, no such differences were evident and might be explained in several ways. First, the amount of training in the fundamental or relational skills of MI relative to advanced or technical skills to elicit motivations for change might have been inadequate to markedly improve the therapists' empathic capacity. The appropriate dose and duration of training in both critical areas that underpin MI remains a matter of debate and research, with no firm conclusions to date (Miller & Rollnick, 2012). Second, it is possible that therapist empathy may not be particularly sensitive to training efforts depending on therapists' pre-training foundational level of empathic skills. It may be that therapists need a minimum degree of baseline empathic capacity for them to improve their ability in this area (Moyers & Miller, 2012; Nerdrum & Hoglend, 2002). Accordingly, Miller and colleagues (2005) used an accurate empathy screening procedure to hire therapists for a clinical trial of an intervention based on MI (Miller, Moyers, Arciniega, Ernst, & Forcehimes, 2005). Taped conversations with study staff were coded for accurate empathy based on a specific criterion involving reflective listening. Only candidates that met the criterion for adequate foundational empathy skills were hired. Study authors commented that this prescreening task, although effortful, resulted in better therapist training outcomes than in training studies with unscreened therapists (Miller et al., 2005). Additional study is needed to determine the extent to which therapists can be trained to be more empathic and what factors may moderate this process.

This study has several limitations. First, the study assessed the psychometric properties of the TES in one sample of therapists using MI within a therapist training protocol. Replication of the findings with other therapists, psychotherapeutic approaches, and clinical circumstance outside a training protocol is needed. Second, the same group of raters used the same frequency and extensiveness 7-point rating method for the TES and MI adherence and competence scores. This may have inflated the observed convergent validity associations. Third, this study did not include client ratings of therapist empathy or measures of working alliance that would have allowed for examination of the sensitivity and specificity of the TES to the clients' experience of their therapists. Fourth, this study used a written measure of therapist empathy, the HRQ, to examine convergent validity, rather than an alternate observer rating system of therapist empathy (e.g., Accurate Empathy Scale). Finally, since no client outcomes were gathered in the parent study, we were not able to determine how well the TES predicted therapeutic outcomes, a key feature in establishing the validity of any empathy measure (Elliott et al., 2011).

Nonetheless, the results of this study indicate initial support for the reliability, construct, and criterion validity of the TES and use of the scale to examine therapist empathy in audiotaped client sessions. The TES may have utility in therapy process-outcomes studies to examine the moderating or mediating effects therapist empathy may have on client response to different types of psychotherapeutic treatments. Moreover, it may provide a useful tool for monitoring the degree of expressed empathy in sessions, giving therapists performance feedback about their empathic skills, and coaching them to improve in this important therapeutic area.

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Table 1

Therapist Empathy Scale rating item descriptions and empathy component.

Item	Item Description	Empathy
Concern	A therapist conveys concern by showing a regard for and interest in the client. The therapist seems engaged and involved with the client and attentive to what the client has said. The therapist's voice has a soft resonance that supports and enhances the client's concerned expressions.	Component Attitudinal Attunement
Expressiveness	A therapist's voice demonstrates expressiveness when the therapist speaks with energy and varies the pitch of his or her voice to accommodate the mood or disposition of the client.	Attunement
Resonate or capture client feelings	A therapist resonates with or captures the intensity of the client's feelings when he or she speaks with a tone and emphasis that matches the client's emotional state or that pitches words or phrases in a manner that underscores how the client feels.	Affective
Warmth	A therapist demonstrates warmth by speaking in a friendly, cordial, and sincere manner. The therapist is involved with and supportive of the client's efforts to express him- or herself. In some way, the therapist seems kindly disposed toward or fond of the client.	Attitudinal
Attuned to client's inner world	A client's inner world is defined as the client's feelings, perceptions, memories, meanings, bodily sensations, and core values. A therapist is attuned to a client's inner world when he or she provides moment-to-moment verbal acknowledgement of the client's expressions. These acknowledgements suit, agree with, or support the mood and reflections of the client. The therapist is attentive to nuances of meaning and feeling conveyed in a client's statements beyond surface content and shows a genuine understanding of the client's inner world.	Cognitive Affective Attunement
Understanding cognitive framework	A therapist demonstrates an understanding of the client's cognitive framework and meanings when he or she clearly follows what the client has said and accurately reflects this understanding to the client. In short, the therapist and client are on the same page. The therapist is careful to provide ample opportunities for the client to state his or her views in order to permit the fullest and most accurate understanding of the client. The interaction conveys that the therapist values knowing what the client means or intends by his or her statements without predetermination or judgment.	Cognitive
Understanding feelings/inner experience	A therapist conveys an understanding of a client's feelings and inner experience when he or she shows a sensitive appreciation and gentle caring for the client's emotional state. A therapist provides ample opportunities for the client to explore his or her emotional reactions. The therapist accurately reflects how the client feels by appropriately labeling feeling states with words (e.g., anger, sadness, frustration, etc.), or metaphors (e.g., "It's as if you are pent up and feel about to explode") to clarify and crystallize for the client what he or she is experiencing emotionally.	Affective
Acceptance of feelings/inner experiences	A therapist shows acceptance of the client's feelings and inner experience when he or she validates the client's experience and reflects the client's feelings without judgment or a dismissive attitude. The therapist is unconditionally open to and respectful of how the client feels. The therapist's stance is one of genuineness and honesty instead of seemingly feigning concern or appearing inauthentic.	Affective Attitudinal
Responsiveness	A therapist shows responsiveness to the client by adjusting his or her responses to the client's statements or nonverbal communications during the conversation. The therapist follows the client's lead in the conversation instead of trying to steer the discussion to the therapist's agenda or interests.	Attunement

Table 2

Therapist Empathy Scale rating items: Means, standard deviations, and intra-class correlation coefficient reliabilities.

Item	M	SD	ICC
Concern	4.92	1.04	0.88
Expressiveness	4.86	1.98	0.87
Resonate or capture client feelings	4.68	1.12	0.90
Warmth	4.88	1.19	0.91
Attuned to client's inner world	4.76	1.11	0.89
Understanding cognitive framework	5.03	1.05	0.85
Understanding feelings/inner experiences	4.92	1.09	0.90
Acceptance of feelings/inner experiences	5.27	1.00	0.91
Responsiveness	5.07	1.01	0.90

Note. $N = 315$. Ratings are on a 7-point Likert scale: 1 = not at all, 2 = a little, 3 = infrequently, 4 = somewhat, 5 = quite a bit, 6 = considerably, 7 = extensively.

Table 3

Fit indices for model of Therapist Empathy Scale.

Model	N	χ^2	df	p	Model statistics				
					χ^2/df	NFI	IFI	CFI	RMSEA
Baseline	87	55.13	19	.00	2.90	.91	.94	.94	.15
Post-Workshop	84	78.83	19	.00	4.15	.89	.91	.91	.20
Post-Supervision	78	44.11	19	.00	2.32	.93	.96	.96	.13
Follow-Up	66	26.45	19	.12	1.39	.95	.99	.99	.08
All	315	127.30	19	.00	6.70	.95	.95	.95	.14

Note. The goodness-of-fit of the predicted one-factor latent structure is determined by evidence from several indices suggesting a well fitted model. Fit indices used include a nonsignificant chi-square, chi-square degrees of freedom ratios < 2 , normed fit index (NFI), incremental fit index (IFI) and comparative fit index (CFI) $> .90$, and the root mean square error of approximation (RMSEA) $.10$ degrees of freedom (Marsh et al., 1988; Yadama & Pandey, 1995). Statistics meeting these criteria are bolded.

Table 4

Correlations among Therapist Empathy Scale and MI Adherence and Competence, HRQ, and MI-Inconsistent Behavior.

Assessment Point	N	Adherence		Competence		HRQ	MI-Inconsistent
		Fund.	Adv.	Fund.	Adv.		
Baseline	86	.53**	.27**	.66**	.51**	.12	-.13
Post-Workshop	84	.55**	.30**	.65**	.50**	.13	.02
Post-Supervision	78	.50**	.42**	.56**	.50**	.09	.05
Follow-Up	66	.67**	.34**	.69**	.51**	.13	-.33*
All	315	.56**	.33**	.64**	.50**	.14*	-.11

Note. Fund. = Fundamental. Adv. = Advanced. HRQ = Helpful Responses Questionnaire.

* significant at $p < .05$,

** significant at $p < .01$. N for competence may be less than listed.