Detecting alliance ruptures: the effects of the therapist’s experience, attachment, empathy and countertransference management skills

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ABSTRACT

Accurate alliance rupture detection is a prerequisite to any successful repair process. Despite its importance, however, rupture detection remains a struggle for most therapists. Supporting the existence of a therapist effect on therapy outcomes, rupture detection skills may rely on certain therapists’ personal characteristics. The aim of this study was to verify whether alliance rupture detection performance is related to therapists’ personal characteristics. One hundred and eight undergraduates, trainees and mental health professionals participated in an experimental task assessing their alliance rupture detection ability. Participants also completed attachment, empathy and countertransference management self-reported measures. Participants with clinical experience (trainees and professionals) reported more alliance ruptures, accurate or not, than those with no clinical experience (undergraduates). Trainees reported more accurate ruptures and less inaccurate ones than the two other groups. Attachment anxiety was positively associated with accurate ruptures detection for undergraduates, while this association proved negative for trainees and therapists. Perspective-taking, a cognitive dimension of empathy, was negatively associated with accurate rupture detection, whereas personal distress, an affective dimension of empathy, was negatively associated with accurate ruptures detection for trainees, and positively associated for undergraduates. Self-insight, a component of countertransference management, revealed a negative association with accurate rupture detection for undergraduates. These findings suggest that therapists vary as to their rupture detection ability and that this ability is related to certain personal characteristics. They also highlight the importance of specific training and clinical supervision for both trainees and experienced therapists in order to improve their detection ability.

Key words: Alliance ruptures; Detection; Treatment outcome; Therapist characteristics; Therapy relationship.

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Introduction

Decades of research has demonstrated the important effect of therapeutic alliance and therapists’ characteristics on therapy outcome (Ackerman & Hilsenroth, 2001, 2003; Horvath, Del Re, Flückiger, & Symonds, 2011; Wampold, 2015). In line with these findings, recent empirical results suggest that the therapists’ capacity to accurately and efficiently detect alliance ruptures is essential to engage in rupture reparation and that this process, when successful, tends to improve both alliance and therapeutic outcome (Chen, Atzil-Slonim, Bar-Kalifa, Hasson-Ohayon, & Refaeli, 2018; Marmarosh & Kivlighan, 2012). It appears, however, that therapists often fail to recognize alliance ruptures as they occur within sessions and that some are better at recognition than others (Eubanks-Carter, Muran, & Safran, 2010; Johnson et al., 1995; Lecomte, Savard, Drouin, & Guillon, 2004; Safran & Muran, 2000). Knowledge about the characteristics that distinguish those who are proficient at alliance rupture detection from those who are not (Chen et al., 2018) could contribute to the global outcome improvement effort. The
aim of this study is to verify whether some therapists’ personal characteristics are associated with their alliance rupture detection performance.

An alliance rupture can be defined as a tension or breakdown in the collaborative relationship between the patient and the therapist (Safran, Crocker, McMain, & Murray, 1990; Safran & Muran, 2000), as well as a difficulty to establish a therapeutic bond early in the process (Samstag, Muran, & Safran, 2004). Based on the patient’s behavior, Safran and Muran (2000) identified two types of alliance ruptures. On the one hand, a confrontation rupture refers to any hostile reaction where the patient expresses his or her anger, resentment or dissatisfaction towards the therapist or technical aspects of the treatment in a blaming or demanding manner. On the other hand, a withdrawal rupture occurs when the patient deals with a trigger in the relationship with the therapist by remaining silent, offering minimal answers to questions, changing subject or being excessively compliant to the therapist’s recommendations.

Over the last two decades, Safran and colleagues’ pioneer work have allowed a better understanding of the rupture-repair processes. For instance, alliance ruptures, when adequately addressed, are now known to be beneficial to therapeutic change, as they offer the opportunity to explore the patient’s interpersonal patterns in the here-and-now (Safran & Muran, 1996, 2000; Safran, Muran, Samstag, & Stevens, 2002; Stevens, Muran, Safran, Gorman, & Winston, 2007). In the Latin American context, moments of conflicts engendering strong emotions for the client, perceived as breaches in the alliance, also proved central to therapeutic change when acknowledged and repaired (Krause et al., 2007; Krause, Altimir, & Horvath, 2011). Conversely, unattended ruptures represent missed opportunities to engage in a negotiation and resolution process (Regan & Hill, 1992; Rhodes, Hill, Thompson, & Elliott, 1994) and as such, have the potential to harm the relationship, decrease the likelihood of therapeutic gains, increase stagnation and promote early patient dropout (Mellado et al., 2017; Muran et al., 2009; Safran, Muran, Samstag, & Winston, 2005; Safran, Muran, & Eubanks-Carter, 2011). As recent empirical papers pointed out, whether ruptures prove beneficial or not depends on the therapist’s ability to manage them and also, most importantly, on his or her ability to detect them (Chen et al., 2018; Marmarosh & Kivlighan, 2012).

Several ways of operationalizing rupture detection have been proposed over time, based on various conceptualizations of ruptures (Coutinho, Ribeiro, Sousa, & Safran, 2014). For instance, some consider ruptures as series of events occurring within a single therapy session (Colli, Gentile, Condino, & Lingiardi, 2017; Colli & Lingiardi, 2009; Safran, Muran, & Samstag, 1994), while others consider them as alliance ratings fluctuations from one session to another (Stiles et al., 2004; Strauss et al., 2006). Operationalizations also vary as to their method-
determine whether the therapists’ attachment insecurities contributed to the creation of actual alliance ruptures with their patients or whether they mainly generated perceptual biases as to the number of ruptures detected. As of yet, no study appears to have addressed the eventuality of perceptual biases on the part of therapists.

When therapists are confronted to alliance ruptures, they tend to experience emotional reactions also encountered in countertransference management (Coutinho, Ribeiro, Hill, & Safran, 2011). The fact that some therapists are better than others at countertransference management is well documented (Van Wagoner, Gelso, Hayes, & Diemer, 1991) and some personal characteristics, such as awareness of one’s affective reactions and empathic dispositions, have been defined as central to this ability. Interestingly, some authors have suggested that therapists’ awareness of their own emotional reactions allow better detection of ruptures as it leads them to be more attuned to signs of negative shifts taking place in the relationship in the here-and-now (Eubanks-Carter et al., 2015; Safran, Muran, Stevens, & Rothman, 2007; Safran & Kraus, 2014). Conversely, low empathy appears likely to lead therapists to ignore signs of alliance ruptures in the therapeutic process as well as to negate their own contribution (Ackerman & Hilsenroth, 2001).

Objectives and hypotheses

The aim of this study is to explore the association between therapists’ specific personal characteristics and their alliance rupture detection performance while taking into account clinical experience levels. Building on parameters frequently used to define the performance of diagnostic tools in biomedical applications (Tabachnick & Fidell, 2007; Zweig & Campbell, 1993), the ability to detect ruptures is approached from two perspectives: i) sensitivity (true positives, i.e. number of accurate ruptures reported), and ii) 1-specificity (false positives, i.e. number of inaccurate ruptures reported). The first hypothesis states that clinical experience level is positively associated to detection performance, characterized by increased reports of accurate ruptures (sensitivity) and fewer reports of inaccurate ruptures (specificity). The second hypothesis states that attachment insecurities are negatively associated with detection performance (fewer reports of accurate ruptures and increased reports of inaccurate ones), whereas empathy and countertransference management ability are positively associated with detection performance as characterized here-above.

Materials and Methods

Sample

Following the approval of the project by the Research Ethics Board (Humanities and Social Sciences, University of Sherbrooke, certification number 2017-1650), the sample consisted of 108 undergraduate, graduate and post-graduate students in psychology, psychoeducation, social work and vocational counseling from three Canadian universities, as well as currently working clinical psychologists and other mental health professionals (social workers, psychoeducators, guiding counselors, occupational therapists). Participants were recruited from the provincial psychologists’ certification board (Quebec Board of Psychologists) mailing list, student mailing lists, and via publicity in universities and on social networks.

Procedure

Participants were invited to take part in an individual interview of approximately 90 minutes. The course of the study and its implications were explained in order to obtain free and informed consent. Following this, the experimental task and the completion of self-reported measures on a secured online survey platform were completed.

Experimentation

A brief and informational presentation about alliance ruptures and their detection, as well as instructions related to the task, were provided by the researcher before exposure to the stimuli in order to ensure information uniformity and to limit biases related to differences inherent to field of study or practice. The stimuli consisted of three video excerpts, each ranging from 9 to 12 minutes, starring a therapist and three different patients interacting during psychotherapy sessions (details below). Participants were asked to pause playback when they detected an alliance rupture. They were instructed to specify the patient’s sentence marking the beginning of the rupture as well as the behavioral clues they used to draw their conclusion. A printed copy of transcripts of each video excerpt had previously been given to the participants, allowing them to pinpoint the exact sentence considered as the beginning of the rupture. Finally, in order to facilitate analysis, the verbal answers given by the participants were recorded on a digital audio device.

Instruments

Sociodemographic variables

Age, gender, clinical experience and field of study or occupation were collected for descriptive purposes.

Video excerpts

Three excerpts were selected from a Canadian (Québec) adaptation of In treatment, a television series depicting realistic therapy sessions and alliance ruptures. In order to properly use the Rupture Resolution Rating System (3RS) elaborated by Eubanks, Muran, and Safran (2015), four judges trained from the available documentation on Safran’s laboratory website as well as through the analysis of video excerpts until a good inter-judge agreement was reached. Afterwards, the judges used the
3RS to individually analyze the three excerpts in order to determine the precise timing at which the ruptures began according to the first indicative behavioral manifestation. The three excerpts respectively included seven, two and eleven ruptures. The average agreement percentage between the judges was 72%. Disagreements were discussed to reach consensus and an answer key listing a total of 20 ruptures was produced.

Attachment

In order to assess the participants’ attachment insecurities, a French version (Lafontaine & Lussier, 2003) of the 12-item inventory of the Experience in Close Relationships (ECR; Wei, Russel, Mallinckrodt, & Vogel, 2007) was used. The instrument, whose items are answered on a 7-point Likert scale, is divided into two dimensions, namely anxiety and avoidance. The dimensions present good to excellent internal consistency, α ranging from 0.77 to 0.88. Validity is well established, with recent studies confirming the validity indices from the initial validation stage (Wei et al., 2007).

Empathy

In order to measure empathy, the French version (Lussier, 1996) of the Interpersonal Reactivity Index (IRI; Davis, 1980), was used. This version contains 28 items to be answered on a 7-point Likert scale and grouped into five dimensions, namely fantasy, perspective-taking, empathic concern and personal distress. The dimensions present mostly acceptable internal consistency, α ranging from 0.55 to 0.77, and a good convergent validity (Gilet, Mella, Studer, Grünh, & Labouvie-Vief, 2013).

Countertransference management

In order to measure characteristics involved in countertransference management, a French translation of the Countertransference Factors Inventory (CFI; Van Wagoner et al., 1991) was used. The questionnaire contains 51 items to be answered on a 7-point Likert scale, documenting five dimensions: self-insight, self-integration, empathy management, and conceptualization skills. The dimensions present excellent internal consistency, α ranging from 0.88 to 0.92. Content validity is well established (Van Wagoner et al., 1991). The questionnaire was created to be completed by an observer but can also be self-reported (Rosenberger & Hayes, 2002). The second option was chosen for the needs of the present study.

Most participants were students (66.7%), while others were professionals (31.5%) or pursuing other occupations (1.9%). A large part of the sample was psychology-related, as 18.6% of participants were psychotherapists, 23.3% were trainees and 33.3% were undergraduates, while the remaining 24.8% were students or professionals involved in psychosocial intervention (social work, psychoeducation, vocational guidance).

In order to calculate the number of accurate and inaccurate rupture reports, researchers listened to the recording of each participant and compiled all ruptures reported. Their answers were then rated based on the answer key, adding a score of 1 on the number of accurate ruptures variable when participants detected the right timing of a rupture, leading to the establishment a final score out of 20, and a score of 1 on the number of inaccurate ruptures variable when the timing did not correspond to any of those included in the key list.

The clinical experience variable was turned into a categorical variable with three possible values: i) no clinical experience (n=44), ii) 22 months of practice or less (n=33) and iii) more than 22 months of practice (n=31). This procedure generated three groups of relatively similar sizes. The first group was only composed of undergraduates (100.0%), the second group was mostly composed of trainees (81.8%) and the third group was mostly composed of professionals (84.9%). Mean clinical experience for the trainees’ and professionals’ groups were respectively 10.6 (SD=1.1) and 157.3 (SD=20.3) months.

In order to proceed with the analyses, some variables had to be transformed: square root transformation was used for the anxiety dimension and a logarithmic transformation was used for the avoidance dimension of attachment as well as the number of accurate and inaccurate reports. Table 1 reports means and standard deviations for each group on the study variables. As described in more details below, differences were observed on the rupture detection performance variables. Furthermore, whereas groups were no different on the attachment variables and on three out of four of the empathy dimensions (Davis, 1983), they showed significant differences on the remaining variables. The majority of these highlighted differences were found between the professionals and the two other groups, who did not differ from each other.

Results

Preliminary analyses

Of the 108 participants recruited for this study, 86 were female (80.4%) and 21 male (19.6%), and ranged in age between 19- and 69 years of age (M=30.21, SD=11.10).
They also revealed that mental health professionals identified a significantly higher number of accurate \((M=74, SD=21)\) and inaccurate \((M=92, SD=22)\) ruptures than undergraduates. No significant differences were found between trainees and professionals regarding detection performance.

**Effect of personal characteristics on rupture detection performance**

In order to verify whether the therapists’ attachment insecurities were negatively associated with their detection performance, and whether their empathy and CT management ability were positively related to their detection performance (hypothesis 2), a series of eleven hierarchical multiple linear regressions were performed on the amount of accurate and inaccurate ruptures reported. As presented in Table 2, clinical experience remained the variable explaining the highest amount of variance, respectively 10.2% and 7.8%. Only one significant main effect was listed, that of perspective taking on the number of accurate ruptures detected \((\beta=-.189)\). Two interaction effects on the number of accurate ruptures detected proved also significant, the interaction of experience with attachment anxiety and self-insight respectively adding 7.5% and 5.9% to the variance explained. Finally, the interactions of experience with personal distress added a marginal contribution of 4.4%.

Table 3 lists the simple slopes associated with the significant and marginally significant interaction effects. The association between attachment anxiety and the number of ruptures accurately detected is positively stronger for the undergraduates than it is for the other groups, while the association between self-insight and the number of accurate ruptures is negatively stronger for the trainees as compared to the other groups. Finally, personal distress exerts a more positive effect on the number of accurate ruptures reported for undergraduates than it does for the trainees.

### Discussion

The results of the current study tend to confirm the ideas put forth by various authors regarding the existence of a therapist effect on rupture detection ability (Chen et al., 2018; Eubanks-Carter et al., 2015; Safran & Kraus, 2014). Indeed, clinical experience is associated with increased reports of both accurate and inaccurate ruptures in comparison to no experience, thus partially confirming the first hypothesis. Although the differences were not statistically significant, trainees showed the best detection performance as they reported less inaccurate ruptures and more accurate ones than professionals. In addition, professionals reported significantly more inaccurate ruptures than undergraduates, thus partially offsetting their favorable results as to detection specificity. These findings are in line with therapists reported persistent struggle to detect and manage alliance ruptures (Lecomte et al., 2004; Safran & Muran, 2000).

Our findings suggest that therapists’ sensitivity towards the deterioration of the quality of the therapeutic relationship increases with experience but lacks speci-

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**Table 1. Means and standard deviations on study variables per group.**

| Predictors                              | Undergraduates | Trainees | Professionals |
|-----------------------------------------|----------------|----------|---------------|
| Rupture detection performance           |                |          |               |
| Accurate ruptures                       | .60 (.23)\(a\) | .78 (.26)\(b\) | .74 (.21)\(b\) |
| Inaccurate ruptures                     | .78 (.21)\(b\) | .88 (.20)\(a,b\) | .92 (.22)\(b\) |
| Attachment style                        |                |          |               |
| Attachment anxiety                      | 1.69 (.37)     | 1.84 (.35) | 1.71 (.37)    |
| Attachment avoidance                    | .28 (.19)      | .26 (.18)  | .31 (.15)     |
| Empathy                                 |                |          |               |
| Fantasy                                 | 2.94 (.65)\(a\) | 2.93 (.67)\(a\) | 2.47 (.76)\(a\) |
| Empathic concern                        | 3.16 (.54)     | 3.15 (.59) | 2.93 (.60)    |
| Perspective-taking                      | 3.19 (.44)     | 3.19 (.44) | 2.98 (.67)    |
| Personal distress                       | 1.35 (.76)     | 1.35 (.76) | 1.30 (.85)    |
| Countertransference management ability   |                |          |               |
| Anxiety management                      | 3.91 (.55)\(a\) | 3.93 (.38)\(a\) | 4.28 (.44)\(b\) |
| Empathy                                 | 4.01 (.30)\(a\) | 4.05 (.28)\(a\) | 4.24 (.43)\(b\) |
| Conceptualization skills                | 3.61 (.43)\(a\) | 3.83 (.44)\(a\) | 4.05 (.48)\(b\) |
| Self-insight                            | 3.74 (.53)\(a\) | 3.80 (.33)\(b\) | 4.05 (.41)\(b\) |
| Self-integration                        | 3.83 (.46)\(a\) | 3.85 (.31)\(a\) | 4.10 (.46)\(b\) |

\(n=44\) \(n=33\) \(n=31\)

\(\text{a,b}\)Estimates with different superscripts are significantly different based on Ryan-Einot-Gabriel-Welsch Q (REGWQ) pairwise comparison tests.
Table 2. Hierarchical multiple regressions predicting number of accurate and inaccurate ruptures reported from clinical experience, attachment style, empathy, countertransference management ability (N=108).

| Step | Predictor | Effects                          | Accurate ruptures | Inaccurate ruptures |
|------|-----------|----------------------------------|-------------------|---------------------|
|      |           |                                  | β   | AR²/R² | ΔF/ΔF_{total} | β   | AR²/R² | ΔF/ΔF_{total} |
| 1    | Clinical experience | Undergraduates vs Trainees (CE1) | -   | .102   | 5.959*** | -   | .078   | 4.433*** |
|      |           | Undergraduates vs Professionals (CE2) | .326*** | -   | - | .211* | -   | - |
| 2    | Attachment anxiety | Main effect | .072 | .005   | .587   | .084 | .007   | .772   |
| 3    | Interaction   | x CE1 | -   | .075   | 4.668* | -   | .032   | 1.819* |
|      | x CE2 | -.240* | -   | - | .157 | -   | - |
| Total | All effects | -   | .182 | 4.534*** | -   | .116   | 2.682*** |
| 2    | Attachment avoidance | Main effect | -.056 | .003   | .358   | -.028 | .001   | .086   |
| 3    | Interaction   | x CE1 | -   | .022   | 1.314  | -   | .005   | .265   |
|      | x CE2 | -.071 | -   | - | -.040 | -   | - |
| Total | All effects | -   | .127 | 2.981* | -   | .103   | 1.856* |
| 2    | Fantasy | Main effect | .025 | .001   | .064   | .143 | .019   | 2.149* |
| 3    | Interaction   | x CE1 | -   | .008   | .445   | -   | .003   | .169   |
|      | x CE2 | .070 | -   | - | -.040 | -   | - |
| Total | All effects | -   | .110 | 2.528* | -   | .100   | 2.255*** |
| 2    | Empathic concern | Main effect | .064 | .004   | .460   | .034 | .001   | .126   |
| 3    | Interaction   | x CE1 | -   | .001   | .055   | -   | .012   | .698   |
|      | x CE2 | -.029 | -   | - | -.053 | -   | - |
| Total | All effects | -   | .107 | 2.440* | -   | .091   | 2.053*** |
| 2    | Perspective taking | Main effect | -.189* | .035   | 4.209* | .111 | .012   | 1.373* |
| 3    | Interaction   | x CE1 | -   | .011   | .688   | -   | .018   | 1.037* |
|      | x CE2 | .013 | -   | - | -.116 | -   | - |
| Total | All effects | -   | .148 | 3.554** | -   | .108   | 2.471** |
| 2    | Personal distress | Main effect | .126 | .015   | 1.820 | -.026 | .001 | .073 |
| 3    | Interaction   | x CE1 | -   | .044   | 2.692*** | -   | .002   | .121   |
|      | x CE2 | -.262* | -   | - | -.046 | -   | - |
| Total | All effects | -   | .162 | 3.933** | -   | .081   | 1.791* |
| 2    | Anxiety management | Main effect | -.101 | .009 | 1.073 | .136 | .017 | 1.898 |
| 3    | Interaction   | AM x CE1 | -   | .012 | .686 | - | .004 | .217 |
|      | AM x CE2 | .060 | - | - | .013 | - | - |
| Total | All effects | -   | .123 | 2.858* | - | .098 | 2.222*** |
| 2    | Empathy | Main effect | -.032 | .001 | .107 | .108 | .011 | 1.225 |
| 3    | Interaction   | EMP x CE1 | -   | .007 | .401 | - | .002 | .116 |
|      | EMP x CE2 | -.091 | - | - | .005 | - | - |
| Total | All effects | -   | .110 | 2.517* | - | .091 | 2.034*** |
| 2    | Conceptualization skills | Main effect | -.022 | .000 | .048 | .130 | .014 | 1.646 |
| 3    | Interaction   | CS x CE1 | .017 | - | - | .006 | - | - |
|      | CS x CE2 | .040 | - | - | .031 | - | - |
| Total | All effects | -   | .109 | 2.492* | - | .095 | 2.134*** |

To be continued on next page
ficity. We suspect that doing psychotherapy may lead to a redefinition of the cost/benefit ratio associated with rupture detection. In this sense, therapists may learn through experience that the cost of an undetected rupture may potentially surpass the cost of a false positive, as they may lead to an abrupt downfall of the patient’s trust, increasing the risk of premature therapy termination and preventing any possibility of resolution. Furthermore, raising the matter of a rupture while there is none could prove less harmful for the therapeutic process, even perhaps positive given the increased attention to interpersonal processes (Chen et al., 2018), given that both parties are still there to discuss the issue. If this were the case, false positive rupture reporting would not substantially reduce as experience increases.

The second hypothesis stating that attachment insecurity is negatively associated with rupture detection performance, whereas empathy and countertransference management ability is positively related to this ability, was partially confirmed. Indeed, of both attachment dimensions, only anxiety showed an effect on accurate ruptures detection, which differed based on level of clinical experience. In fact, attachment anxiety revealed a strong positive effect on accurate ruptures reported by the group with no clinical experience and a comparatively negative effect on number of accurate ruptures reported by those with clinical experience. The negative effect of attachment anxiety on alliance ruptures detection could be explained by the hypervigilance anxiously attached therapists encounter in their attempt to avoid inducing negative reactions in others and feel rejected (Simpson, Rholes, & Phillips, 1996). As they tend to perceive ruptures as patients’ intentions to leave (Safran et al., 1994), their fear of rejection could lead them, on the one hand, to constantly look out for tensions in the therapeutic relationship, thus being particularly attentive to the slightest behavioral sign that may indicate the presence of ruptures. On the other hand, they might think that ruptures ought not to be so omnipresent than what they feel, thus casting doubts on the accuracy of their perception of ruptures. These doubts could in turn be maintained, indeed reinforced, by a lack of verification with the patient for fear of triggering an eventual negative reaction. The negative effect of attachment anxiety on rupture detection performance appears also consistent with the findings of numerous studies which highlight the negative effects of therapists’ attachment anxiety on their assessment of the quality of the therapeutic alliances (Black et al., 2005; 2005).

Table 2. Continued from previous page.

| Step | Predictor | Effects | Accurate ruptures | Inaccurate ruptures |
|------|-----------|---------|------------------|-------------------|
|      |           |         | \( \beta \) | \( \Delta R^2/R^2 \) | \( \Delta F/F_{\text{mist}} \) | \( \beta \) | \( \Delta R^2/R^2 \) | \( \Delta F/F_{\text{mist}} \) |
| 2    | Self-insight | Main effect | -.028 | .001 | .086 | .027 | .001 | .074 |
| 3    | Interaction | - | .059 | 3.595* | - | .011 | .637 |
|      | S-INS x CE1 | -2.48* | - | - | -.096 | - | - | - |
|      | S-INS x CE2 | .066 | - | - | .055 | - | - | - |
| Total | All effects | - | .162 | 3.937*** | - | .090 | 2.015*** |
| 2    | Self-integration | Main effect | .043 | .002 | .200 | .154 | .022 | 2.538 |
| 3    | Interaction | - | .008 | .432 | - | .004 | .248 |
|      | S-INT x CE1 | .077 | - | - | -.024 | - | - | - |
|      | S-INT x CE2 | .103 | - | - | .073 | - | - | - |
| Total | All effects | - | .111 | 2.552* | - | .104 | 2.373* |

Block 1 is the same for all regressions performed on a given dependent variable. \( df = 2,105 \) for bloc 1, \( df = 1,104 \) for bloc 2, \( df = 2,102 \) for bloc 3 and \( df = 5,102 \) for total. *P<.05, **P<.01; ***.05<P<.10; CE, Clinical Experience.

Table 3. Simple slope estimates (\( \beta \)) for significant interactions on number of accurate ruptures reported.

| Predictors | Undergraduates | Trainees | Professionals |
|------------|----------------|----------|---------------|
| Attachment anxiety | .385** | - .059* | - .253b |
| Personal distress | .303a | - .278b | .135b |
| Self-insight | .044* | - .589b | .172* |

*a, **Estimates with different superscripts are significantly different based on t-tests. *P<.05; **P<.01.
Dinger et al., 2009; Sauer et al., 2003). However, interpersonal vigilance might also help to increase the ability to detect alliance ruptures, as observed with undergraduates who seemed to have benefited from their attachment anxiety to connect with the patients’ relational experiences. In sum, attachment anxiety seems to play an important role in the detection of alliance ruptures, and the valence of this role, either negative or positive, appears to depend on the status of other variables.

Furthermore, out of the four components of empathy covered by the second hypothesis, only two displayed a significant effect on ruptures’ detection performance: perspective-taking and personal distress. Perspective-taking, a cognitive dimension of empathy referring to the spontaneous tendency to adopt others’ point of view (Davis, 1983), had a main negative effect on accurate ruptures detection – the effect being even more important for undergraduates. We surmise that it could have misled participants into using theories and rationalization to hypothesize about the patient’s emotional state, reducing awareness of their own emotional experience and thus bringing them away from internal clues revealing aspects of the patient’s subjectivity. Personal distress, an affective dimension of empathy referring to self-directed emotional reactions such as anxiety and discomfort felt in stressful relationship environments (Davis, 1983), showed an opposite effect on the detection performance of trainees and undergraduates, the former being negative when compared to the latter, which proved positive. Considering that the highest levels of both attachment anxiety and personal distress were found in trainees, our results provide support to Rubino and colleagues’ findings (2000), which suggest that more anxiously attached therapists tend to respond less empathically to patients’ concerns than less anxious ones. The positive association of personal distress with rupture detection performance in undergraduates could perhaps result in part from an experiment effect, those experiencing more personal distress paying increased attention to the detection task in order not to disappoint the researchers.

Lastly, our results revealed a negative effect of self-insight, which refers to the therapists’ degree of awareness of their own internal state (Van Wagoner et al., 1991), on trainees’ accurate ruptures detection. Moreover, the effect of self-insight on trainees significantly differed from the effect of this variable on both undergraduates and professionals. According to Eubanks-Carter et al. (2015), self-awareness allows therapists to focus on their own immediate experience and is essential to alliance rupture detection. However, trainees have perhaps reacted to the experiment with cautiousness regarding their answers by fear of being mistaken and judged based on their limited clinical experience, which might not be the case for undergraduates and therapists.

The absence of main and interaction effects of personal characteristics on inaccurate rupture detection might suggest that this variable is less pertinent than reports of accurate ruptures to assess detection. In addition, because we chose to include a wide variety of mental health professionals and students, considering therapeutic alliance as transversal (Wampold, 2015), a considerable number of participants had no prior knowledge regarding alliance ruptures, and the brief informational presentation given before the experimental task might not have been sufficient to increase their detection performance. It does not only represent a limit to our results, but also something to keep in mind with mental health academic training failing to provide enough knowledge regarding alliance ruptures and how to deal with them.

Although the entire sample respects the minimum number required to achieve the generalizability of the results according to G*Power (Faul, Erdfelder, Buchner, & Lang, 2009), the restricted number of participants among the three groups limits the extent of our results. Also, the observation-based method chosen for this study might help to increase objectivity but might have restricted, by the same token, the degree of emotional investment of the participants as observers, limiting the scope of the conclusions to be drawn regarding personal characteristics involved in detection. Some factors may explain why other dimensions of personal characteristics assessed in this study appeared non-significant with rupture detection. Amongst other things, the self-reported nature of the instruments may have induced validity issues such as social desirability biases and disparities between participants’ perceptions of their characteristics and their actual ones. Finally, given the considerably higher amount of confrontation ruptures in the experiment, we were unable to address differences regarding the therapists’ ability to detect certain types of ruptures based on their personal characteristics. That knowledge could further lead to the establishment of personalized training supervision for therapists and trainees. Despite these limitations, this study offers some interesting insights into the direction that supervision might take for novice and experienced therapists. Therapists trained to identify some aspects of their own relational dynamics as well as their consequences in the therapeutic alliance could become more vigilant regarding their interventions (Williams, 2008). Along with supervision, theoretical and practical training on alliance ruptures’ management should be included in all mental health professional training in order to increase therapists’ and other professionals’ awareness and help prevent alliance deterioration and patient dropout.

**Conclusions**

This study sheds light on the need for early and continuing practical training about ruptures detection in association with therapists’ personal characteristics in order to improve the efficiency of psychotherapeutic process. It also opens the underexplored field of alliance rupture detection to the scientific community, with the hope of
arousing the interest of other researchers into broadening and deepening the knowledge on the subject. This could promote awareness regarding rupture detection on a larger scale, both in the scientific and clinical community.

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