

Salud Mental, Vol. 41, No. 2 (2018)

Salud Mental 2018;

ISSN: 0185-3325

DOI: 10.17711/SM.0185-3325.2018.013

Received: 25 July 2017 Accepted: 5 March 2018

Effective therapies for the treatment of complex posttraumatic stress disorder: A qualitative systematic review

Carmen Fernández Fillol [1](#), Elena Rocío Serrano-Ibáñez [1](#), Gema Teresa Ruiz-Párraga [1](#), Carmen Ramírez Maestre [1](#), Rosa Esteve Zarazaga [1](#), Alicia Eva López Martínez [1](#)

¹ Departamento de Personalidad, Evaluación y Tratamiento Psicológico, Facultad de Psicología, Centro de Investigaciones Biomédicas (IBIMA), Universidad de Málaga, Málaga, España.

Correspondence: Elena R. Serrano-Ibáñez Departamento de Personalidad, Evaluación y Tratamiento Psicológico, Facultad de Psicología, Universidad de Málaga, Campus de Teatinos. Bulevar Louis Pasteur, 25, 29010, Málaga, España. Phone: (34) 9521 36697 Email: elenarserrano@uma.es

Abstract:

Background. Current literature shows that posttraumatic stress disorder and complex posttraumatic stress disorder symptoms differ. Although the psychological treatments available for posttraumatic disorder are well established, little is known about the effectiveness of those aimed at the treatment of complex posttraumatic stress.

Objective. To evaluate the efficacy of psychological treatments for complex posttraumatic stress disorder.

Method. A systematic qualitative search was conducted according to PRISMA guidelines, searching four psychological and health electronic databases: Medline, Pilots, PsycINFO, and Pubmed. Three reviewers independently selected the studies in two phases: preselection (criteria for complex posttraumatic stress disorder, replicable psychological treatment, and treatment effect) and selection (additional criteria: type of study, participants, and treatment).

Results. Of the 615 studies reviewed, 25 were preselected, eight of which met the inclusion and methodological quality criteria. Five studies explored adult populations (with one exception, all were randomized clinical trials) and three child populations (clinical studies with pre- post-treatment design, with and without control group). Most studies with adult populations included psychoeducation, cognitive restructuring, and exposure therapy. The studies with child samples included EMDR and mindfulness as the most frequent treatment components.

Discussion and conclusion. The evidence was insufficient to determine the most effective treatment. More research on this issue is required.

Key words: Complex posttraumatic stress disorder, psychological treatment, effectiveness, therapy efficacy.

Resumen:

Antecedentes. La literatura actual muestra una diferenciación entre los síntomas de trastorno por estrés postraumático y estrés postraumático complejo (TEPTC). Si bien los tratamientos psicológicos para el primer tipo de sintomatología están claramente establecidos, son menos conocidas las intervenciones para el TEPTC. **Objetivo.** Evaluar la eficacia de las terapias psicológicas para reducir los síntomas del TEPTC.

Método. Se realizó una revisión sistemática cualitativa basada en la guía de publicación PRISMA. Se usaron cuatro bases de datos: Medline, Pilots, Psycinfo y Pubmed. Con base en criterios previamente definidos, tres revisores independientes eligieron los trabajos en dos fases: preselección (criterios para TEPTC, tratamiento psicológico replicable, datos sobre efectos) y selección (considerando tres criterios adicionales: tipo de estudio, de participantes y de intervención).

Resultados. De los 615 encontrados, se preseleccionó un total de 25 artículos para revisión de texto completo, de los cuales se seleccionaron un total de ocho. Cinco trabajos incluyeron población adulta (a excepción de un estudio, todos eran ensayos clínicos controlados aleatorizados) y el resto infantil (diseño pre-post-tratamiento, con o sin grupo control). Mayoritariamente, los componentes de los tratamientos para adultos fueron: psicoeducación, reestructuración cognitiva y exposición. Los estudios con muestras infantiles incluyeron técnicas más heterogéneas, si bien el uso del EMDR y mindfulness fueron comunes a dos de las intervenciones.

Discusión y conclusión. Dada la escasez de estudios encontrados y los problemas de control metodológico, no es posible destacar un tratamiento de elección para el TEPTC con eficacia superior al resto. Se requiere de más investigación en este ámbito.

Palabras clave: Trastorno por estrés postraumático complejo, tratamiento psicológico, eficacia terapéutica.

To date, a growing body of research has distinguished between two profiles within the symptomatology developed after undergoing a traumatic experience: post-traumatic stress disorder (PTSD) and complex post-traumatic stress disorder (CPTSD) ([Busuttil, 2009](#); [Karatzias et al., 2017](#); [Lansford, Dodge, Bates, Crozier, & Kaplow, 2002](#); [Taylor, 2006](#)). The latter is caused by multiple or chronic exposure to one or more forms of interpersonal trauma or complex trauma (abandonment, betrayal, physical aggression, sexual assault, threats to bodily integrity, coercive practices, emotional abuse, witnessing violence and death), which causes a subjective experience marked by feelings of anger, betrayal, fear, resignation, defeat, and/or shame ([Van der Kolk, 2005](#)). These events are common in childhood and adolescence, their repercussions continuing into adulthood, where they have a strong impact on the psychosocial functioning of those who experience them ([Cook, Blaustein, & Spinazolla, 2003](#); [Felitti et al., 1998](#)). Research has shown that these early stressors generate neurobiological sequelae in children ([Bremner, 2003](#); [Van der Kolk, 2003](#)), and when complications arise, they may cause health problems ([Goldsmith et al., 2012](#)), substance abuse and/or psychiatric disorders, in both children and adults ([Anda et al., 2006](#); [Anda, Butchart, Felitti, & Brown, 2010](#)).

Although CPTSD was previously included within the category of unspecified extreme stress disorder (Disorders of Extreme Stress Not Otherwise Specified, DESNOS; [Pelcovitz et al., 1997](#)), the current Diagnostic and Statistical Manual of Mental Disorders 5 (DSM-V); [American Psychiatric Association, 2013](#)) does not include this specific problem. The closest diagnosis would be PTSD, although this is restricted to a very limited number of symptoms and contexts, since it has been shown that CPTSD also includes the following symptomatology ([Herman, 1992](#); [López-Soler, 2008](#)): a) difficulties in the regulation of affective impulses; b) alterations in attention and consciousness, dullness, slowness of processing, difficulties in attention and concentration, amnesia, dissociative episodes, and depersonalization; c) problems of self-perception, a chronic sense of guilt, and personal responsibility accompanied by feelings of intense shame; d) alterations in the perception of the abuser (including acceptance, dependence, and incorporation of his or her belief system); e) conflicts in relationships with others, marked by difficulty in trusting and being intimate, development of strong feelings of vulnerability and danger when they engage in new affective relationships; f) somatization and/or medical problems; g) persistent changes in the system of meanings.

The World Health Organization (WHO) has proposed the inclusion of CPTSD as a new nosological entity within the eleventh edition of the International Classification of Diseases (ICD-11), due to be published shortly. Thus, CPTSD would not only be defined by PTSD symptoms, but also by the disturbances detailed above and associated with a complex trauma ([Cloitre et al., 2014](#)). Accordingly, it is postulated that the therapeutic approach should take into account the differences between the two presentations of the disorder and address the particular complexity characterizing CPTSD.

Extensive literature exists on evidence-based psychological treatments, which are therefore effective for PTSD in both the adult ([Blankenship, 2017](#); [Cusack et al., 2016](#)) and child population ([Dowd & McGuire, 2011](#)). The two approaches include cognitive behavioral therapy (CBT), prolonged exposure therapy, and eye movement desensitization and reprocessing therapy (EMDR), accompanied by pharmacological treatment ([National Center for PTSD, 2016](#)). However, it remains to be seen whether these interventions will be able to address the symptoms of CPTSD equally effectively or whether treatments should incorporate specific components in order to address the characteristics of this specific type of disorder. For this reason, the purpose of this study was to evaluate the effectiveness of psychological therapies in reducing CPTSD symptoms in adult and child populations. Given the characteristics that distinguish the symptoms of CPTSD, this study undertook a qualitative systematic review of the studies describing treatment for CPTSD in order to demonstrate their empirical effectiveness.

Method

A qualitative systematic review of the literature following [Perestelo-Pérez \(2013\)](#), [Higgins and Green \(2011\)](#), and the recommendations of the PRISMA publication guide ([Moher, Liberati, Tetzlaff, & Altman, 2009](#)) was conducted. The electronic search, undertaken in May 2017, using the Medline, Pilots, Psycinfo, and Pubmed databases, was limited to documents in English and Spanish, full-text journal articles, human studies and publications on clinical trials, randomized control trials, and validation studies. It was not restricted to a set period of time in order to ensure the collection of all the articles related to the treatment of this set of symptoms given its specificity. The terms used were: Complex trauma OR complex PTSD OR Complex post-traumatic stress symptoms OR Unspecified external stress disorder AND Psychological treatment OR Psychological intervention OR Psychological therapy AND Effectiveness OR Efficacy.

Based on the aforementioned search strategy, 735 potentially eligible articles were identified by title, 120 of which were duplicated. The remaining 615 were independently reviewed by three assessors in two stages (pre-selection and selection). In the pre-selection, abstracts of all 615 articles were analyzed and those that met the following criteria were chosen for a reading of the full text: a) having a sample with a CPTSD diagnosis; b) having made an evaluation of the symptoms of this disorder; c) have provided treatment; d) being a study with an $N > 1$, and e) having quantitative statistical analyses. Twenty-five articles were selected on the basis of these criteria.

Following Cochrane's recommendations for the systematic review of interventions ([Higgins & Green, 2011](#)), during the reading of the full texts of the articles, also independently carried out by the three reviewers, studies based on the following criteria ([Table 1](#)) were chosen. As far as the type of study is concerned, a higher score was given to articles involving a randomized clinical trial, which made it possible to control for selection bias. Three criteria were taken into account regarding the type of respondents: a) diagnosis (specification, according to a valid, reliable diagnostic system, with measures to guarantee this); b) comorbidity with other pathologies (in order to ensure the comparability of studies based on the characteristics of the sample to prevent selection bias; the presence of a second diagnosis or another type

of psychological and/or physical problem would affect the comparison and the effects attributable to psychological treatment); and c) medication (also in order to control for performance bias, since the effects of treatment may be different when it interacts with pharmacological effects). Lastly, the type of intervention was also assessed on the basis of three criteria: a) measurement of treatment effects (in order to control for detection bias, considering how treatment results were determined in each study); b) replicability (providing sufficient details of the intervention to ensure replication); and c) follow-up (for the purpose of controlling attrition bias not only in immediate results, but also in the medium- and long-term results available).

Table 1
Criteria and score for article selection

Criterion	Score
Type of study	
Randomized clinical trial	2
Non-randomized clinical trial	1
Clinical study without randomized control group	.5
Clinical study without control group	0
Diagnosis	
Valid/reliable diagnosis with instrument/interview	2
Unreliable instrument or not based on DSM	1
Diagnosis provided by other services/equipment	.5
Does not mention diagnostic instrument	0
Comorbidity	
Only complex PTSD	2
Comorbid with another pathology, but both have been diagnosed with a reliable instrument	1
Control pathology (CPTSD) causing physical illness	.5
Comorbidity with more than one disorder not diagnosed with a reliable instrument	0
Medication	
Subjects not medicated	2
Subjects medicated for CPTSD, indicate effects	1.5
Not medicated for CPTSD, effects indicated	1
Subjects medicated for CPTSD, effects indicated	.5
Medicated without providing information	0
Measurements of treatment effects	
Statistical comparisons between experimental and control groups with effect size.	2
Statistical comparisons between experimental and control groups without effect size.	1.5
Pre-post-treatment comparisons (study without control group)	1
Replicability	
Treatment components indicated with precise description	2
Treatment components indicated, but not detailed	1
Treatment components not indicated	0
Follow-up	
12 or more months	2
6 to 12 months	1
Less than 6 months	.5
No follow-up	0

[view](#)

Their score was estimated according to the degree of compliance and quality in relation to the various characteristics the articles showed within each criterion. The higher the methodological quality, the higher the score assigned. The scores given ranged from 0 (when the criterion in question was not met) to 2 (when higher quality guarantees were met). In order to ensure the quality of the potentially eligible articles, it was considered that, for each of the seven criteria, the article should obtain at least half the maximum score (in other words, one point), hence the score of seven points as the cut-off point for the selection of the articles.

Nevertheless, it was not essential to obtain one point in each criterion. In these cases a lower score in one criterion was offset by a higher score in another one. As can be seen from [Table 1](#), only in the case of the criterion relating to the measurement of treatment effects was it necessary to obtain at least one point, since this was considered essential for the purpose of the review. Papers failing to obtain a minimum score of seven points, regarded as the cut-off score, were excluded from the final review.

A pooling session was subsequently held to agree on the scores given to each paper. As a result of this process, 14 of the 25 selected studies were excluded since they failed to achieve the minimum score required (obtaining between 3 and 5.5 points), while three other studies were ruled out for the following reasons: they addressed the issue of chronic, non-complex PTSD, presented a treatment program for abusive parents and abused children, or described an intervention performed on patients with psychiatric disorders admitted to a mental health unit.

Lastly, the following information was extracted from each of the selected articles: authors, characteristics of the sample (sex, age, size), variables evaluated, and evaluation instruments used, name and features of the psychological treatment used, number, frequency and duration of sessions, format (individual or group), and duration of treatment and follow-up, statistical analysis of the data collected, and treatment effects (taking into account the variables evaluated and CPTSD symptoms).

Results

As a result of this procedure, eight articles were identified that met the inclusion criteria to undertake the review, with scores ranging from 7 to 10. [Figure 1](#) shows the process of selecting the studies. It should be noted that these papers were published between 2003 and 2014. The characteristics of the samples of the studies reviewed are described and, subsequently, the components of the treatments, with a distinction being made between studies performed either on adults or children.

The group treatment undertaken by [Dorrepaal et al. \(2013\)](#) consisted of 20 two-hour sessions. Psychoeducation on symptoms of the disorder, cognitive restructuring of dysfunctional beliefs, management of guilt, shame, anger and distrust, and assertiveness training were provided. In comparison with the usual treatment (not specified by the authors), this treatment achieved a decrease in PTSD symptom scores in the pre-post-treatment comparison; 64% of patients failed to meet CPTSD criteria post-treatment, increasing to 78% at six-month follow-up. [Resick, Nishith, & Griffin \(2003\)](#) compared a 12-session cognitive restructuring intervention with nine prolonged exposure sessions. The results failed to show the superiority of one technique over another, with significant differences being obtained in both cases in the symptoms of the disorder when comparing pre-, post-treatment and follow-up scores. Prolonged exposure (in imagination and live) was also used in the intervention of between 9 and 12 sessions undertaken by [Feske \(2008\)](#), preceded by psychoeducation and training in diaphragmatic breathing. The data indicated that prolonged exposure was significantly more effective than counseling in reducing symptoms of the disorder in both post-treatment ($F = 8.54, p = .009, d = 1.19$) and follow-up ($F = 7.56, p = .013, d = 1.20$).

[Kaiser, Gillete and Spinazzola \(2010\)](#) used a sensory learning program based on the [Bolles \(2001\)](#) proposal, which employs a trochoidal movement table, a computerized light instrument, and an acoustic training game for the purpose of creating interactions between the visual, auditory, and vestibular systems to bring about improvements in sensory integration and adaptive body responses. It produced significant improvements in various CPTSD symptoms between pre- and post-treatment in self perception [$t(10) = 2.341, p = .02$] and alterations in traumatic meaning [$t(10) = 2.064, p = .04$] variables, and between post-treatment and follow-up in the emotional regulation variable [$t(8) = 2.391, p = .03$].

In turn, [Sachsse, Vogel, & Leichsenring \(2006\)](#) delivered specific, trauma-oriented psychodynamic treatment based on the therapy described in the imaginative psychodynamic trauma therapy (IPTT) manual ([Reddemann, 2004](#)), adding two EMDR sessions a month ([Shapiro, 1995](#)). They obtained significant improvements between pre- and post-treatment in dissociation [$t(75) = 3.19, p = .05, d = .44$] and avoidance symptoms [$t(75) = 3.83, p = .01, d = .77$], compared with the scores of the control group that received the usual treatment (not specified), which remained at one year follow-up.

Results of studies conducted

on child/youth populations

[Lanktree et al. \(2012\)](#) provided structured, multimodal treatment also based on the cognitive-behavioral and trauma-focused approach, which included aspects such as psychoeducation, training to improve self-control, stressor identification, controlled exposure to traumatic events, and social skills training in all contexts. The whole intervention period was accompanied by games and group and family activities. The intervention significantly reduced symptoms associated with CPTSD ($F = 59.20, p < .001, \eta^2 = .29$).

[Jarero, Roque-López, and Gómez \(2013\)](#) undertook two group EMDR sessions together with integrative group treatment (EMDR-IGTP), based on the program developed by [Jarero and Artigas \(2009\)](#), to which they added six individual EMDR sessions, in keeping with the procedure designed by [Shapiro \(2001\)](#). In addition, psychoeducation was provided for respondents' families, who were also taught communication and empathy skills, as well as mindfulness techniques. Analysis of the effect of time showed a significant decrease in symptoms of the disorder between pre- and post-treatment, as well as between post-treatment and three-month follow-up ($F_{1,33} = 259.27, p < .001$).

Lastly, [Kagan, Henry, Richardson, Trinkle, and LaFrenier \(2014\)](#), developed a group program for children and adolescents focused on emotional regulation, affective social support, and life history integration to build resources and resilience skills. The content of the sessions was based on sharing the feelings and emotions experienced, with therapy focusing on improving self-control, together with mindfulness exercises for stress reduction. The therapy produced a significant reduction in symptoms between pre-treatment measures and follow-up at six months in total PTSD symptom scores (29.4 vs. 20.6, $t = 2.93, df = 18, p = .009$). A significant reduction in symptoms and emotional and behavioral problems between pre-treatment and follow-up at nine months was also observed (68.1 vs. 60.2, $F = 6.61, df = 3, \eta^2 = .38, p = .001$).

Discussion and conclusion

The purpose of this study was to conduct a qualitative systematic review, based on the recommendations of the PRISMA publication guide ([Moher et al., 2009](#)), on the effectiveness of treatments used to address CPTSD. The results of these studies showed that significant improvements were achieved in CPTSD symptoms, although the components and structure of the interventions were not necessarily the same. It cannot therefore be said that any particular intervention is more effective than other treatments for this condition.

In general, and based on the articles selected, the work undertaken to date to treat CPTSD includes interventions designed not only to alleviate its symptoms, but also the manifestations that complicate and cause the severity of this disorder. The studies reviewed agreed on the need to address alterations in emotional regulation, difficulties in maintaining attention and awareness, problems of self-perception and guilt, negative cognitions, difficulties with others, and somatization and/or associated medical problems.

Although the interventions analyzed yielded positive results, the different characteristics of the samples (with widely varying sizes, different ages, and the presence of various comorbid disorders with CPTSD), the variety of treatments

and techniques used and the structure of the intervention (format, duration, and frequency) hamper comparison across studies and the choice of a set therapeutic modality. However, three of the studies conducted on adults ([Dorrepaal et al., 2013](#); [Feske, 2008](#); [Resick et al., 2003](#)) and one of those undertaken on children ([Lanktree et al., 2012](#)) were based on the cognitive-behavioral approach, in which cognitive restructuring with prolonged exposure ([Resick et al., 2003](#)) or without it ([Dorrepaal et al., 2013](#)) was used, together with exposure to trauma as the main technique ([Feske, 2008](#); [Lanktree et al., 2012](#)).

In the case of adults, the main treatment components were: psychoeducation ([Dorrepaal et al., 2013](#); [Feske, 2008](#)), cognitive restructuring techniques ([Dorrepaal et al., 2013](#); [Resick et al., 2003](#)), and exposure techniques ([Feske, 2008](#); [Resick et al., 2003](#); [Sachsee et al., 2006](#)). [Kaiser et al. \(2010\)](#) implemented a sensory learning program while [Sachsse et al. \(2006\)](#) complemented exposure with EMDR sessions and imaginative psychodynamic therapy for trauma. Data from these papers show that these treatments also affected depression, anxiety, and anger scores and the general level of distress. [Resick et al. \(2003\)](#) specifically reported a decrease in symptoms related to intrusions, avoidance, dissociation, and sexual concerns. Through their intervention, [Kaiser et al. \(2010\)](#) managed to improve self-regulation, self-perception, and alterations of meaning, by using the Sensory Learning Program, while [Sachsse et al. \(2006\)](#) declared that specific psychodynamic treatment oriented towards trauma led to improvements in dissociative symptoms, and an improvement in overall and behavioral functioning. Thus, although the results derived from these studies may point to the fact that psychoeducation, cognitive restructuring, and exposure could be effective techniques for the CPTSD treatment, the differences in the design of the treatments and the characteristics of their application make it impossible to say what the exact structure of this intervention should be. More research is therefore required in this respect.

Regarding the results obtained in the child and adolescent population, findings are diverse and do not point to a single intervention protocol, although emotional regulation was a common feature of the three studies reviewed. Eye movement desensitization and reprocessing, together with the integrative group treatment protocol (EMDR-IGTP) designed by [Jarero et al. \(2013\)](#), produced an increase in mastery and confidence regarding traumatic memories in the children in whom it was implemented. The Real Life Heroes Treatment program ([Kagan et al., 2014](#)) was also effective in improving the symptoms of internalization, externalization, and overall behavior of the children who took part in this program. In the study by [Lanktree et al. \(2012\)](#), reductions in levels of anxiety, depression, dissociation, and sexual concerns were achieved through the use of integral treatment for complex trauma. The dearth of papers with methodological control, together with the various therapeutic procedures used in the studies analyzed, once again demonstrates the need for further research in this field.

Given the range of procedures, samples, evaluated psychological variables and components of the interventions, it is only possible to affirm that psychological intervention is undoubtedly necessary and useful in this problem in both child, adolescent and adult populations. It is not possible, however, based on the evidence available after this review, to identify the treatment of choice for CPTSD. Only psychoeducation, cognitive restructuring and prolonged exposure, which have traditionally been used in PTSD treatment ([National Center for PTSD, 2016](#)), are likely to be effective treatments in the adult population. However, as indicated at the beginning of this paper, CPTSD treatment requires addressing other psychological variables that may require other specific techniques for this disorder. In the case of the child and adolescent population, the absence of common therapeutic components is evident, which makes it difficult to opt for a specific treatment.

It is essential to point out the limitations of the review undertaken. These include the low number of studies analyzed, since only eight of the potentially eligible papers met the inclusion criteria established in the present review. Moreover, despite following Cochrane's recommendations for the systematic reviews of treatments, the methodology used to select them was based on an arbitrary cut-off point for the selection of articles. Although this proved useful to reach an agreement on the articles to be included in the review and ensuring that they were of sufficient quality, a different cut-off point would have enabled more papers to be reviewed. However, the excluded articles had scores far below this range, showing that they were of poorer quality. At the same time, not all the selected studies were randomized controlled clinical trials, indicating the presence of methodological biases. As mentioned earlier, the samples in the various papers were extremely heterogeneous. It is also worth mentioning the absence of a follow-up after treatment in some studies, as a result of which the data on the long-term maintenance of the therapeutic effects achieved are not conclusive either.

Despite these constraints, as far as we know, this is the first systematic qualitative review designed to analyze the state of the art of effective therapies for the treatment of complex posttraumatic stress. Its results highlight the need to undertake studies with better methodological control, regarding sample selection and diagnostic criteria (traumas caused by abuse or maltreatment), the psychological variables the treatments seek to address (which should distinguish PTSD symptoms from those of CPTSD), and control of pharmacological treatment (symptoms for which the effects on them are prescribed). There is also obviously a need to design research with a control group. In the cases where control groups exist, the components of the usual treatment with which the comparisons are made should be clearly specified. We believe that the specificity and complexity of this disorder, which has severe effects on those suffering from it, requires effective interventions to address its particular characteristics.

Funding

None.

Conflict of interests

The authors declare they have no conflict of interests.

REFERENCES

- American Psychiatric Association. (2013). *Diagnostic and Statistical Manual of Mental Disorders (DSM-V)*. Washington, DC: American Psychiatric Association.
- Anda, R. F., Butchart, A., Felitti, V. J., & Brown, D.W. (2010). Building a framework for global surveillance of the public health implications of adverse childhood experiences. *American Journal of Preventive Medicine, 39*(1), 93-98. doi: 10.1016/j.amepre.2010.03.015
- Anda, R. F., Felitti, V. J., Walker, J., Whitfield, C. L., Bremner, J. D., Perry, B. D., & Giles, W. H. (2006). The enduring effects of abuse and related adverse experiences in childhood: a convergence of evidence from neurobiology and epidemiology. *European Archives of Psychiatry and Clinical Neurosciences, 256*(3), 174-186. doi: 10.1007/s00406-005-0624-4
- Blankenship, D. M. (2017). Five Efficacious Treatments for Posttraumatic Stress Disorder: An Empirical Review. *Journal of Mental Health Counseling, 39*(4), 275-288. doi: 10.17744/mehc.39.4.01
- Bolles, M. (2001). Bolles Sensory Learning Method. *Positive Health Online, 18*(5). Retrieved from: <http://www.positivehealth.com/article/learning-difficulties/bolles-sensory-learning-method>
- Bremner, J. D. (2003). Long-term effects of childhood abuse on brain and neurobiology. *Child & Adolescent Psychiatric Clinics of North America, 12*(2), 271-292.
- Busuttill, W. (2009). Complex post-traumatic stress disorder: a useful diagnostic framework? *Psychiatry, 8*(8), 310-314.
- Cloitre, M., Garvert, D. W., Weiss, B., Carlson, E. V., & Bryant, R. A. (2014). Distinguishing PTSD, Complex PTSD and Borderline Personality Disorder: A latent class analysis. *European Journal of Psychotraumatology, 5*(1), 1-10. doi: 10.3402/ejpt.v5.25097
- Cook, A., Blaustein, M., & Spinazolla, J. (2003). *Complex trauma in children and adolescents*. Washington, DC: National Child Traumatic Stress Network.
- Cusack, K., Jonas, D. E., Forneris, C. A., Wines, C., Sonis, J., Middleton, J. C., ... Gaynes, B. N. (2016). Psychological treatments for adults with posttraumatic stress disorder: A systematic review and meta-analysis. *Clinical Psychology Review, 43*, 128-141. doi: 10.1016/j.cpr.2015.10.003.
- Dorrepaal, E., Thomaes, K., Smit, J. H., Veltman, D. J., Hoogendoorn, A. W., van Balkom, A. J. L. M., & Draijer, N. (2013). Treatment compliance and effectiveness in complex PTSD patients with co-morbid personality disorder undergoing stabilizing cognitive behavioral group treatment: a preliminary study. *European Journal of Psychotrumatology, 4*(1), 1-7. doi: 10.3402/ejpt.v4i0.21171
- Dowd, H. & McGuire, B. E. (2011). Psychological treatment of PTSD in children: an evidence-based review. *The Irish Journal of Psychology, 32*(1-2), 25-39. doi: 10.1080/03033910.2011.611612
- Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., ... Marks, J.S. (1998). Relationship of childhood abuse to many of the leading causes of death in adults: the adverse childhood experiences (ACE) study. *American Journal of Preventive Medicine, 14*(4), 245-258.
- Feske, U. (2008). Treating low-income and minority women with posttraumatic stress disorder. A pilot study comparing prolonged exposure and treatment as usual conducted by community therapist. *Journal of Interpersonal Violence, 23*(8), 1027-1040. doi: 10.1177/0886260507313967
- Goldsmith, R. E., Freyd J. J., & DePrince A. P. (2012). Betrayal Trauma: associations with psychological and physical symptoms in young adults. *Journal of Interpersonal Violence, 27*(3), 547-567. doi: 10.1177/0886260511421672
- Herman, J. L. (1992). Complex PTSD: A syndrome in survivors of prolonged and repeated trauma. *Journal of Traumatic Stress, 5*(3), 377-391.
- Higgins, J. P. T. & Green, S. (2011). *Cochrane Handbook for Systematic Reviews of Interventions (Version 5.1.0)*. Retrieved from: www.cochrane-handbook.org
- Jarero, I. & Artigas, L. (2009). EMDR Integrative Group Treatment Protocol. *Journal of EMDR Practice and Research, 3*(4), 287-288.
- Jarero, I., Roque-López, S., & Gómez, J. (2013). The provision of an EMDR-based multicomponent trauma treatment with child victims of severe interpersonal trauma. *Journal of EMDR Practice and Research, 7*(1), 17-28. doi: 10.1891/1933-3196.7.1.17
- Kagan, R., Henry, J., Richardson, M., Trinkle, J., & LaFrenier, A. (2014). Evaluation of Real Life Heroes Treatment for children with Complex PTSD. *Psychological Trauma: Theory, Research, Practice and Policy, 6*(5), 588-596. doi:

10.1037/a0035879

Kaiser, E. M., Gillette, C. S., & Spinazzola, J. (2010). A controlled pilot-outcome study of sensory integration (SI) in the treatment of complex adaptation to traumatic stress. *Journal of Aggression, Maltreatment & Trauma, 19*(7), 699-720. doi: 10.1080/10926771.2010.515162

Karatzias, T., Shevlin, M., Fyvie, C., Hyland, P., Efthymiadou, E., Wilson, D., ... Cloitre, M. (2017). Evidence of distinct profiles of Posttraumatic Stress Disorder (PTSD) and Complex Posttraumatic Stress Disorder (CPTSD) based on the new ICD-11 Trauma Questionnaire (ICD-TQ). *Journal of Affective Disorders, 207*(1), 181-187. doi: 10.1016/j.jad.2016.09.032

Lanktree, C. B., Briere, J., Godbout, N., Hodges, M., Chen, K., Trimm, L., ... Freed, W. (2012). Treating multitraumatized, socially marginalized children: Results of a naturalistic treatment outcome study. *Journal of Aggression, Maltreatment & Trauma, 21*(8), 813-828. doi: 10.1080/10926771.2012.722588

Lansford, J. E., Dodge, K. E., Bates, J. E., Crozier, J., & Kaplow, J. (2002). A 12-year prospective study of the long-term effect of early child physical maltreatment on psychological, behavioural and academic problem in adolescents. *Archives of Pediatric and Adolescent Medicine, 156*(8), 824-830. doi: 10.1001/archpedi.156.8.824

López-Soler, C. (2008). Las reacciones postraumáticas en la infancia y adolescencia maltratada: el trauma complejo. *Revista de Psicopatología y Psicología Clínica, 13*(3), 159-174. doi: 10.5944/rppc.vol.13.no.3.2008.4057

Moher, D., Liberati, A., Tetzlaff, J., & Altman, D. G. (2009). Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement. *PLoS Medicine, 6*(7): e1000097. doi: 10.1371/journal.pmed.1000097

National Center for PTSD (2016). *Understanding PTSD and PTSD Treatment*. Retrieved from: http://www.ptsd.va.gov/public/understanding_ptsd/booklet.pdf

Pelcovitz, D., Van Der Kolk, B. A., Roth, S., Mandel, F. S., Kaplan, S., & Resick, P. A. (1997). Development of a criteria set and a structured interview for disorders of extreme stress (SIDES). *Journal of Traumatic Stress, 10*(1), 3-17. doi: 10.1002/jts.2490100103

Perestelo-Pérez, L. (2013). Standards on how to develop and report systematic reviews in Psychology and Health. *International Journal of Clinical and Health Psychology, 13*(1), 49-57. doi: 10.1016/S1697-2600(13)70007-3

Reddemann, L. (2004). *Psychodynamisch Imaginative Traumathrapie. PITT – Das Manual*. Stuttgart: Pfeiffer bei Klett-Cotta.

Resick, P. A., Nishith, P., & Griffin, M. G. (2003). How well does cognitive-behavioral therapy treat symptoms of complex PTSD? An examination of child sexual abuse survivors within a clinical trial. *CNS Spectrums, 8*(5), 340-355. doi: 10.1017/S1092852900018605

Sachsse, U., Vogel, C., & Leichsenring, F. (2006). Results of psychodynamically oriented trauma-focused inpatient treatment for women with complex posttraumatic stress disorder (PTSD) and borderline personality disorder (BPD). *Bulletin of the Menninger Clinic, 70*(2), 125-144. doi: 10.1521/bumc.2006.70.2.125

Shapiro, F. (1995). *Eye movements desensitization and reprocessing (EMDR): Basic principles, protocols and procedures*. New York: Guilford Press.

Shapiro, F. (2001). *Eye movements desensitization and reprocessing (EMDR): Basic principles protocols and procedures (2nd edition)*. New York: Guilford Press.

Taylor, S., Asmundson, G. J. G., & Carleton, R. N. (2006). Simple versus complex PTSD: A cluster analytic investigation. *Anxiety Disorders, 20*(4), 459-472. doi: 10.1016/j.janxdis.2005.04.003

Van der Kolk, B. A. (2003). The neurobiology of childhood trauma and abuse. *Child and Adolescent Psychiatric Clinics of North America, 12*(2), 297-317.

Van der Kolk, B. A. (2005). Developmental trauma disorder. *Psychiatric Annals, 35*(5), 401-408.