What is PTSD and how common is it?

Posttraumatic stress disorder (PTSD) is characterized by persistent symptoms of re-experiencing, avoidance and arousal related to a traumatic event in which an individual experienced intense fear, helplessness and/or horror. Prevalence rates for PTSD in a large, nationally representative sample reported an overall lifetime PTSD rate of 7.8%. PTSD is often more common in trauma-specific populations, such as those who experienced sexual assault, natural disaster or military combat. Active-duty service members deployed in support of Operation Enduring Freedom and Operation Iraqi Freedom are at high risk for exposure to traumatic events, with an estimated 12%-14% having PTSD.

Which psychological treatments are most effective?

Cognitive behavioral therapies (CBT), such as stress inoculation training (SIT), prolonged exposure (PE) and cognitive processing therapy (CPT) have shown the most promising results. Exposure therapy, a type of CBT, has the strongest support across a variety of populations. The U.S. Institute of Medicine has identified exposure therapy as having convincing evidence to support its use. CPT is one of two manualized therapies known to adequately treat PTSD; the other is prolonged exposure (PE). Manualized therapies follow a predetermined protocol for therapy delivery. Such treatments are subjected to rigorous investigation, including randomized controlled trials (RCTs) and consistently yield strong results.

The focus of this paper is to familiarize the reader with the core components of CPT, to briefly summarize CPT research completed since its inception in 1992 and to highlight some unique benefits of CPT treatment.

What are the fundamental elements of CPT?

CPT was originally developed to treat rape and crime survivors suffering from PTSD. Its three core components are psychoeducation, exposure and cognitive therapy, and it is designed to challenge maladaptive thoughts and feelings that prevent trauma survivors from coming to terms with their experiences, leading to a decrease in PTSD. There are various forms of CPT; however, the standard treatment consists of 12 60-minute sessions once or twice weekly. CPT also can be effectively administered in group format or modified to meet the needs of the individual. (For more details on CPT implementation, refer to Shipherd, Street, & Resick, 2006.) Clinicians interested in learning...
CPT may register for a training course and should receive ongoing supervision while they are first learning how to conduct CPT.

What is the evidence for CPT treatment?

A literature review of CPT research is summarized in Table 1. Studies included in the table are those that were published since the inception of CPT, excluding case studies. Existing studies point to CPT as an effective treatment for PTSD. Some studies also found that patients reported less depression.\textsuperscript{11, 17, 19} Although the majority of CPT studies included only women survivors of sexual trauma,\textsuperscript{11, 17, 19-24} two studies looked at combat-related PTSD\textsuperscript{25} and only one included male participants.\textsuperscript{18} Three studies found that CPT outperformed a waitlist (WL)\textsuperscript{17, 26} or minimal attention (MA)\textsuperscript{20} control group. A dismantling study\textsuperscript{19} comparing CPT to its active ingredients found that CPT, cognitive therapy alone (CPT-C) and written accounts (WA) alone were all effective at reducing PTSD symptoms. However, CPT-C resulted in the fastest improvement, followed by standard CPT and WA. CPT in a combined therapy for both PTSD and panic disorder, known as multiple channel exposure therapy (M-CET), also was found to be effective at decreasing PTSD symptoms.\textsuperscript{21}

The strongest evidence for CPT is a RCT study\textsuperscript{11} where CPT was compared to PE and a control condition. CPT was found to be as effective as PE, and both treatments were superior to the control condition. Four follow-up studies using the same data from the above study\textsuperscript{11} found that CPT had an advantage over PE in reducing guilt symptoms not related to depression.\textsuperscript{22} In addition, CPT unlike PE did not initially exacerbate symptoms of avoidance.\textsuperscript{23} PE resulted in an increased dropout rate in women with elevated anger, which was not seen in CPT.\textsuperscript{24} Younger women treated with CPT had better overall results, whereas PE had better overall outcomes with older women.\textsuperscript{24} Lastly, both CPT and PE were able to reduce health-related concerns, but CPT showed relatively greater improvements.\textsuperscript{27}

Is CPT a good treatment option?

Yes. Evidence points to CPT’s efficacy as a psychological treatment for PTSD and has demonstrated potential to decrease symptoms of depression and guilt. Although more research is needed to determine the effectiveness of CPT with various populations, both the Department of Defense and the Department of Veterans Affairs are recommending CPT as an evidence-based treatment for PTSD. A major benefit of CPT is that gains are noticeable in a very short period of time. The rapid response to treatment is particularly important to military and active-duty populations for whom time in garrison may be limited.
References


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<td>Resick &amp; Schnicke, 1992</td>
<td>Quasi-experimental comparing CPT to WL</td>
<td>N=39 females sexual assault survivors (n=19 CPT; n=20 WL)</td>
<td>Recounting of trauma done individually and other treatment in group setting</td>
<td>Pre- and post-treatment, 3- and 6-month</td>
<td>CPT subjects improved significantly from pre- to post-treatment on PTSD and depression; maintained for 6 months; no change in comparison group</td>
<td>Subjects not randomly assigned; no comparison to other treatment</td>
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<td>Falsetti et al., 2001</td>
<td>WL design to evaluate M-CET for co-morbid PTSD and panic attacks, including a CPT component</td>
<td>N=22 female (n=12 M-CET; n=15 WL)</td>
<td>Group treatment consisted of twelve, 90-minute weekly sessions reinforced with homework assignments</td>
<td>Pre- and post-treatment</td>
<td>M-CET group had reductions PTSD symptoms and panic symptoms</td>
<td>Small sample size; some participants in both WL and treatment groups; no long-term follow-up</td>
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<td>Resick et al., 2002</td>
<td>RCT comparing CPT to PE or MA for PTSD and depression</td>
<td>N=171 female rape survivors ITT group, N=121 completed study</td>
<td>Individual CPT and PE twice weekly for total of 13 hours of treatment</td>
<td>Pre- and post-treatment; 3-, and 9-month follow-up</td>
<td>CPT and PE both reduced PTSD and depression symptoms compared to MA; PE and CPT showed similar results; CPT produced better reduction in guilt symptoms</td>
<td>Subjects still meeting criteria for PTSD were offered the opportunity to participate in the alternative therapy causing 9-month follow-up data difficult to interpret</td>
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<td>Nishith et al., 2002</td>
<td>Follow up to Resick et al., 2002 evaluating: (1) within-session patterns of change in PE &amp; CPT and (2) symptom clusters of PTSD for differential improvement</td>
<td>N=171 female rape survivors ITT group; final sample N=108 (n=54 in both PE &amp; CPT groups)</td>
<td>Individual CPT and PE twice weekly for total of 13 hours</td>
<td>CPT: Pre-treatment and following 2, 4.5, 8, and 11 hours of treatment; PE: Pre-treatment and following 2.5, 5.5, 8.5, and 11.5 hours of treatment</td>
<td>CPT and PE groups had initial increase in re-experiencing symptoms prior to seeing decrease; PE group initially increased in avoidance symptoms, no initial increase in avoidance for CPT group</td>
<td>Assessments for PE and CPT were not given following the same amount of treatment, making results only roughly comparable</td>
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<td>Chard, 2005</td>
<td>RCT comparing CPT to MA</td>
<td>N=87 female childhood sexual abuse survivors in ITT and final sample N=55 (n=28 CPT group; n=27 MA group)</td>
<td>CPT for total of 17 weeks, 60-min individual sessions weeks 1-9 &amp; 17, 90-min group session for all other sessions</td>
<td>Pre-, post-treatment, 3-, and 12- month follow-up</td>
<td>CPT more efficacious at treating PTSD compared to MA; benefits still present at a one year follow</td>
<td>Limited generalizability due to small sample size and few minorities</td>
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<td>Nishith et al., 2005</td>
<td>Follow up to Resick et al., 2002 evaluating if CPT improvement in guilt over PE's was a function of improvement in a subset of participants with PTSD and depression</td>
<td>N= 171 female rape survivors ITT group; final sample N=98 (n=49 in both PE &amp; CPT groups)</td>
<td>Individual CPT and PE twice weekly for total of 13 hours</td>
<td>Pre- and post-treatment; 3-, and 9- month follow-up</td>
<td>CPT was an effective means of treating aspects of trauma related guilt; reduction in guilt did not appear to be related to depression</td>
<td>Limited generalizability to males; attrition at follow-up; only one measure of guilt used</td>
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<td>Monson et al., 2006</td>
<td>RCT comparing CPT to WL</td>
<td>N=60 veterans (n=56 males; n=6 females)</td>
<td>Individual CPT twice weekly for a total of 12 sessions</td>
<td>Pre-, mid- (3 weeks for WL), and one-month post-treatment (10 weeks for WL)</td>
<td>CPT group had significant reduction in severity of their PTSD compared to WL; significant reductions in re-experiencing, emotional numbing, and anxiety for CPT group</td>
<td>Limited generalizability to all veterans; individual therapists effects not evaluated</td>
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<td>Resick et al., 2008</td>
<td>CPT dismantling study, full protocol compared to cognitive therapy only (CPT-C) and written accounts (WA)</td>
<td>N=150 (n=53 CPT; n=50 WA; n=47 CPT-C)</td>
<td>6 weeks, total of 12 hours of treatment for all groups; CPT and CPT-C consisted of 12 sessions, each 60 min, conducted two times per week; WA had, in the 1st week, two separate 60-min sessions; thereafter, the sessions were 2 hours once a week, for a total of seven sessions</td>
<td>Pre-, 2 weeks post-treatment (or if subject discontinued treatment prior to prescribed sessions, 2 weeks after treatment would have ended), and 6 month follow-up</td>
<td>All groups had a significant decrease in PTSD and depression symptoms; fastest improvement in CPT-C, followed by the CPT, and finally the WA</td>
<td>WA strayed from standard protocol, CPT patients are asked to write about their most traumatic event at home and then bring this to therapy, however in this study the writing was done during the session</td>
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<td>Zappert &amp; Westrup, 2008</td>
<td>Pre-post program evaluation</td>
<td>N=18 female veterans in the residential Women's Trauma Recovery Program (WTRP)</td>
<td>CPT administered in a group setting for a total of twelve, 90-min sessions</td>
<td>Pre- and post-treatment</td>
<td>Found that 15 out of 18 female participants showed statistically significant reduction in PTSD symptoms</td>
<td>CPT was only a small portion of an intensive 24-hour curriculum; gains from program cannot be solely attributed to CPT</td>
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<td>Galovski et al., 2009</td>
<td>Quasi-experimental follow up to Resick et al., 2002 evaluating change in health related concerns and sleep impairments following PE or CPT treatment</td>
<td>N= 171 female rape survivors ITT group; final sample N=108 (n=54 in both PE &amp; CPT groups)</td>
<td>Individual CPT and PE twice weekly for total of 13 hours</td>
<td>CPT: Pre-treatment and following 2, 4.5, 8, and 11 hours of treatment; PE: Pre-treatment and following 2.5, 5.5, 8.5, and 11.5 hours of treatment</td>
<td>Both CPT and PE groups reported lower health-related concerns over treatment and follow-up; the same was found when measuring sleep quality, however participants in both groups did not reach &quot;normal sleep functioning&quot; (score below clinically significant cutoffs) despite gains</td>
<td>Limited generalizability to males; Interpretation of results limited due to lack of a no-treatment comparison condition</td>
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<td>Rizvi et al., 2009</td>
<td>Exploratory study examined cognitive and affective predictors of treatment dropout and treatment efficacy in CPT, PE, or WL based on Resick et al., 2002</td>
<td>N=171 female sexual assault survivors in ITT, N=145 completed treatment (n=72 CPT, n=73 PE) and WL group were randomized into either CPT or PE after 6 wks</td>
<td>Treatment totaled 13 hours for both CPT (12 sessions) and PE (9 sessions)</td>
<td>Pre- and post-treatment, 3-, and 9-month follow-up</td>
<td>Women with more anger at pre-treatment were more likely to dropout of PE; Older women in PE and younger women in CPT had the best overall outcomes</td>
<td>Limited generalizability</td>
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**Acronym Key**

(CAPS)=Clinician-Administered PTSD Scale  
(CPT)=Cognitive Processing Therapy  
(CPT-C)=Cognitive Therapy only  
(CT)=Cognitive Therapy  
(ITT)= Intent-to-treat  
(MA)=Minimal attention  
(M-CET)=Multiple Channel Exposure Therapy  
(N)=Sample size  
(PCL)=Posttraumatic Stress Disorder Checklist  
(PE)=Prolonged Exposure  
(PTSD)= Posttraumatic Stress Disorder  
(RCT)=Randomized controlled trial  
(STAI)= State-Trait Anxiety Inventory  
(WA)=Written accounts  
(WL)= Waitlist  
(WTRP)=Women's Trauma Recovery Program