# SAMHSA

Disaster Technical Assistance Center Supplemental Research Bulletin

Disaster Behavioral Health Interventions Inventory

May 2022

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The focus of the *Supplemental Research Bulletin* is to provide an overview of the current literature on a specific topic and make it easy to understand for disaster behavioral health professionals who are not otherwise exposed to the research. The product aims to assist professionals and paraprofessionals involved in all-hazards

#### INTRODUCTION

This Supplemental Research Bulletin is an inventory of current intervention options, rather than a review of current research in the field of disaster behavioral health. The inventory primarily encompasses disaster-specific interventions, although several of these may also be used to assist people with distress or disorders associated with other types of events. The interventions to support survivors of other event types are generally applicable to disaster survivors in the later stages of response activities. A few of the interventions (those used in the long-term recovery phase of disaster) are applicable only when the survivors have been fully assessed by a licensed or certified professional and determined to have a mental illness, such as major depression or posttraumatic stress disorder (PTSD).

The immediate and intermediate interventions help a2t(t)-1.1 56 TD [-12.3 (e8.4 (T)(i)-8.3 (e g)-1oal.3 (i)3.2 (y)-8 ( )-18 (e o

survivors ranging from 5 to 40 percent.<sup>5,6,7</sup> Some of this variation in prevalence rates among disaster survivors may owe to different methods and timing of measurement, as well as to the many variables that contribute to whether a person will experience PTSD, such as history of trauma, preexisting mental health condition, socioeconomic status, access to social supports, and other influences.<sup>8,9</sup> Research has also revealed the type of disaster may play a role in the extent of mental health and substance use-related issues or conditions people experience after a disaster.<sup>10</sup> This is especially true if the disaster results in mass injury or death or leads to events such as violence or civil unrest.<sup>11</sup> These survivors should be provided with treatment options as soon as their condition can be identified, or as soon as they have been formally assessed by a mental health professional. Formal mental health treatment services are at the far end of the spectrum in terms of disaster behavioral health and are addressed within the realm of professional clinical mental health and substance use disorder treatment.

Most interventions are categorized by the time in which they should be administered after a disaster (early, intermediate, and long-

impaired. To explore these options, you can contact the intervention author or provider directly using the websites and resources provided.

Lastly, a category of additional resources is included to further assist with guidance and implementation of possible interventions and disaster behavioral health planning. Service delivery models as well as supplemental technological apps are provided within this category for professional and/or public use.

#### EARLY INTERVENTIONS (FIRST 4 WEEKS)

During and immediately after a disaster, survivors experience high levels of distress from life-threatening experiences, violence, injury, witnessing loss of life, disruption of daily routines, and loss of important foundations of stability such as housing or employment. This increased distress does not always lead to chronic disorder. Studies of disasters and resilience have found that some individuals may show symptoms of posttraumatic stress disorder, major depressive disorder, or disordered substance use after a disaster, but only a portion of those go on to have major psychopathology months or years after the event. 12,13,14 However, those who have previously experienced traumatic events, had a preexisting mental health condition, or had preexisting substance use disorder were all at increased risk for poorer mental health outcomes. Peri-traumatic stress—emotional and psychological distress experienced during and immediately after an event—has been shown to explain why some individuals experience negative outcomes over the long term, supporting the need for early invention in this critical period. 16,17

Early interventions are typically defined as any form of psychological intervention delivered within the first 4 weeks of a potentially traumatic event. By delivering services early to those affected by disaster, we may ultimately stave off the progression of acute stress reactions into chronic stress disorders and avoid vulnerability in future disasters. Some early interventions are intended for implementation during the acute phase (within hours or days of a traumatic event), whereas others are initiated 1 to 4 weeks post-incident. These interventions are meant to help survivors access the strengths needed to decrease their

<sup>&</sup>lt;sup>12</sup> Kane, J. C., Luitel, N. P., Jordans, M., Kohrt, B. A., Weissbecker, I., & Tol, W. A. (2018). Mental health and psychosocial problems in the aftermath of the Nepal earthquakes: Findings (t)2 (a1t)2 (a1t)2 (a6.4 (w -45.422.3 (osl)-0.7 (,)15.39J-0.002)

fear responses (thereby calming themselves) and obtain immediate care and support, allowing them to move to the next stage of recovery.

## Assessment, Crisis Intervention, and Trauma Treatment (ACT)

Author: Albert R. Roberts

Website: <a href="http://triggered.edina.clockss.org/ServeContent?rft\_id=info:doi/10.1093/brief-treatment/2.1.1">http://triggered.edina.clockss.org/ServeContent?rft\_id=info:doi/10.1093/brief-treatment/2.1.1</a>

Brief Description: ACT is a conceptual three- stage framework and intervention model that can be useful in helping mental health professionals provide acute crisis and trauma treatment services. This model may be thought of as a sequential set of assessments and intervention strategies, as it integrates various assessment and triage protocols with the 7-stage crisis intervention model and the 10-step acute traumatic stress management protocol.

Intervention Type	
Individual	Community
Group	Peer Support
Survivor Family	Other

Research Base				
Empirically Supported Treatment (EST)	Evidence-supported Treatment (EST)			
Evidence-informed or Evidence-based Behavioral Practice (EBBP)	Qualitative Research			

Cognitive Behavioral Therapy for Acute Stress Disorder (CBT for ASD)

Author: Richard Brvant

Populations

Survivor Family		Other	
Family (General)			
Delivery Setting			
6ந்த வண்டிக்கை கூடிய பிக்கிற குறிக்கிய கூடிய கூ	тЭП <b>4</b> л(	r)-I(i)03 28 654 (Tif6): (6)923 &\$ 325 (TiD\$r)96) & Two 0.08 644 & Prime Field/Community	) f1/01/1/128 B\$Tivogs rÍ/1/1/((
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## Psychological First Aid (PFA)

Author As

Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the		
Families	Other: People who have experienced disasters and/or trauma		

## THE JOHNS HOPKINS RAPID MODEL OF PFA

Author: Johns Hopkins Center for Public Health Preparedness

## NEBRASKA PSYCHOLOGICAL FIRST AID

Authors: Denise Bulling, University of Nebraska Public Policy Center , Nebraska Department of Health

and Human Services

Website: https://www.disastermh.nebraska.edu/training-

Parents	People With Disabilities and Other Access and Functional Needs
Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster
Families	Other: People at risk of developing substance use disorders
Experience Needed To Implement or Provide	
Advanced Degree and/or Professional Certification: Healthcare and mental health and substance use disorder treatment professionals	Training (Paid)
Training (Free)	Other: Designated training sites
Research Base	
Empirically Supported Treatment (EST)	Evidence-supported Treatment (EST)

Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other: Variety of settings	
Populations		
Children	First Responders/Disaster Responders	
Parents	People With Disabilities and Other Access and Functional Needs	
Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster	
Families	Other: Adolescents and adults who have experienced trauma and/or maladaptive substance use/substance use disorders	
Experience Needed To Implement or Provide		
Advanced Degree and/or Professional Certification	Training (Paid)	

Training (Free)

Other: Professionals in a variety of settings, with or without training; training is available

Mental Health First Aid for Veterans: <a href="https://www.mentalhealthfirstaid.org/population-focused-modules/veterans">https://www.mentalhealthfirstaid.org/population-focused-modules/veterans</a>

Mental Health First Aid for Fire and Emergency Medical Services: <a href="https://www.mentalhealthfirstaid.org/population-focused-modules/fire-and-ems">https://www.mentalhealthfirstaid.org/population-focused-modules/fire-and-ems</a>

Mental Health First Aid for Public Safety: <a href="https://www.mentalhealthfirstaid.org/population-focused-modules/public-safety">https://www.mentalhealthfirstaid.org/population-focused-modules/public-safety</a>

Mental Health First Aid for Higher Education: <a href="https://www.mentalhealthfirstaid.org/population-focused-modules/higher-education">https://www.mentalhealthfirstaid.org/population-focused-modules/higher-education</a>

Mental Health First Aid for Rural Communities: <a href="https://www.mentalhealthfirstaid.org/population-focused-modules/rural-communities">https://www.mentalhealthfirstaid.org/population-focused-modules/rural-communities</a>

Mental Health First Aid for Schools: <a href="https://www.mentalhealthfirstaid.org/population-focused-modules/schools">https://www.mentalhealthfirstaid.org/population-focused-modules/schools</a>

Mental Health First Aid for Faith and

Experience Needed To Implement or Provide			
Advanced Degree and/or Professional Certification	Training (Paid)		
Training (Free)	Other: Specific training programs are offered for different occupations/populations. Courses may cost money to complete.		
Research Base			
Empirically Supported Treatment (EST)	Evidence-supported Treatment (EST)		
Evidence-informed or Evidence-based Behavioral Practice (EBBP)	Qualitative Research		

## INTERMEDIATE INTERVENTIONS (6 MONTHS-1 YEAR)

Prior to reporting to a disaster scene, it is important for disaster behavioral health responders to be informed of the level, types, and timing of mental health and substance use-related response activities being conducted in their assigned communities. This knowledge can help responders prepare for

Hamblen, J. L., Norris, F. H., Symon, K. A., & Bow, T. E. (2017). Cognitive behavioral therapy for postdisaster

Populations	
Children	First Responders/Disaster Responders
Parents	People With Disabilities and Other Access and Functional Needs
Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster
Families	Other

### Further References/Studies

Hofmann, S. G., & Gómez, A. F. (2017). Mindfulness-based interventions for anxiety and depression. *The Psychiatric Clinics of North America*, 40(4), 739–749. https://doi.org/10.1016/j.psc.2017.08.008

Kabat-Zinn, J. (1994).

Delivery Setting		
Family Assistance Centers/Disaster Recovery Centers	Field/Community	
Private Homes	Faith-based Organizations	
Schools	Virtual	
Childcare	Websites and Social Media	
Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other	
Populations		
Children	First Responders/Disaster Responders	
Parents	People With Disabilities and Other Access and Functional Needs	
	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster	

### Writing for Recovery

Author: James Pennebaker

Website: None available; guided journals are available for purchase

Brief Description: Writing about an emotional experience can help survivors understand and accept their distressing reactions to a difficult or traumatic event. The use of narrative technique may be incorporated in cognitive behavioral therapy with adults<sup>28,29</sup> and children.<sup>30</sup> The Writing for Recovery model provides specific instruction to survivors on a writing exercise, including two short periods of writing each day for three days (the days can be consecutive or spaced apart). The participants are asked to write about their innermost thoughts and feelings for 15 minutes. At the end of the period, participants leave their writing aside. Writing can even be once a week over 3 weeks if it is difficult to have shorter-spaced periods. Even writing on a single day on three occasions is likely to be beneficial. James Pennebaker has authored many studies and books exploring expressive writing and associations between chosen vocabulary usage and current mindset. *Writing to Heal* by Pennebaker is a guided journal to help those who are recovering from trauma.<sup>31</sup>

Intervention Type		
Individual	Community	
Group	Peer Support	
Survivor Family	Other	
Family (General)		
Delivery Setting		
Family Assistance Centers/Disaster Recovery Centers	Field/Community	
Private Homes	Faith-based Organizations	
Schools	Virtual	
Childcare	Websites and Social Media	
Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other	
Populations		
Children	First Responders/Disaster Responders	

Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster	
Families	Other: People who have experienced trauma or a distressing event	
Experience Needed To Implement or Provide		
Advanced Degree and/or Professional Certification	Training (Paid)	
Training (Free)	Other: Books are available for self-guided journal writing.	
Research Base		

**Empirically Supported Treatment** 

cognitive therapy as among first-line therapies) in the treatment of PTSD.  $^{33,34,35}$  Mental health and substance use-related

Delivery Setting		
Family Assistance Centers/Disaster Recovery Centers	Field/Community	
Private Homes	Faith-based Organizations	
Schools	Virtual	

U.S. Department of Veterans Affairs (VA), & U.S. Department of Defense (DoD). (2017, June). VA/DoD clinical practice guideline for the management of posttraumatic stress disorder and acute stress disorder: Clinician summary.

Further References /Studies

Valiente-Gómez, A., Moreno-Alcázar, A., Treen, D., Cedrón, C., Colom, F., Pérez, V., & Amann, B. L. (2017). EMDR beyond PTSD: A systematic I

prolonged exposure: A randomized clinical trial in military veterans. Addictive Behaviors, 90, 369-

Intervention Type		
Individual	Community	
Group	Peer Support	
Survivor Family	Other	
Family (General)		
Delivery Setting		
Family Assistance Centers/Disaster Recovery Centers	Field/Community	
Private Homes	Faith-based Organizations	
Schools	Virtual	
Childcare	Websites and Social Media	
Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other	
Populations		
Children	First Responders/Disaster Responders	
Parents	People With Disabilities and Other Access and Functional Needs	
Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster	
Families	Other: Adults and adolescents with PTSD	
Experience Needed To Implement or Provide		
Advanced Degree and/or Professional Certification: Mental health professional	Training (Paid)	
Training (Free)	Other	
Research Base		
Empirically Supported Treatment (EST)	Evidence-supported Treatment (EST)	
Evidence-informed or Evidence-based Behavioral Practice (EBBP)	Qualitative Research	

### Further References/Studies

Jain, S., Ortigo, K., Gimeno, J., Baldor, D. A., Weiss, B. J., & Cloitre, M. (2020). A randomized controlled trial of brief Skills Training in Affective and Interpersonal Regulation (STAIR) for veterans in primary care. *Journal of Traumatic Stress*, 33(4), 401–409. <a href="https://doi.org/10.1002/jts.22523">https://doi.org/10.1002/jts.22523</a>

experienced military sexual trauma. *Journal of Traumatic Stress*, *31*(4), 620–625. https://doi.org/10.1002/jts.22305

## Trauma -focused Cognitive Behavioral Therapy (TF- CBT)

Authors: Judith Cohen, Anthony Mannarino, and Esther Deblinger

Website: <a href="https://tfcbt.org">https://tfcbt.org</a>

Brief Description: In TF -CBT, specific interventions are adapted to meet the needs of children and adolescents experiencing emotional and psychological difficulties as a result of trauma. This treatment is short-term and usually lasts no more than 16 sessions as both parents and children may become able to better process emotions and thoughts relating to a traumatic experience.

TF-CBT Web2.0 (https://tfcbt2.musc.edu) is an 11-hour, self-paced, online distance education course for mental health professionals seeking to learn TF-CBT (Cohen, Mannarino, & Deblinger, 2006; Deblinger & Heflin, 1996). It was developed for professionals holding a master's degree or above or graduate students in a mental health discipline such as clinical social work, professional counseling, clinical psychology, psychiatry, marital and family therapy, or psychiatric nursing. TF-CBT Web2.0 may provide 11 contact hours of continuing education from the Medical University of South Carolina for certain mental health professionals who complete the course.

Intervention Type	
Individual	Community
Group	Peer Support
Survivor Family	Other

Experience Needed To Implement or Provide		
Advanced Degree and/or Professional Certification: Mental health professional	Training (Paid)	
Training (Free)	Other: Self-paced online training course that may count as 11 contact hours of continuing education for certain professionals; cost is \$35 per learner.	
Research Base		
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Research Base

Disaster Distress Helpline counselors identified this narrative sharing as an important lesson learned during the 2012 Hurricane Sandy response.<sup>38</sup>)

Intervention Type

Individual

#### MY DISASTER RECOVERY

Authors: Charles Benight and Josef Ruzek

Website: <a href="https://disaster.vast.uccs.edu">https://disaster.vast.uccs.edu</a>

Brief Descriptio n: My Disaster Recovery is a free, confidential self-help service designed to help survivors who have experienced a recent disaster to learn more about stress following a disaster and ways to cope with these emotional effects. It provides important information about what to expect during recovery from a disaster and highlights specific skills to help survivors handle the challenges of moving forward and enhance their emotional strength. It can also offer feedback on a person's progression and if needed, information about how to seek professional help. This service is available in English and Spanish versions.

Intervention Type	
Individual	Community
Group	Peer Support
Survivor Family	Other
Family (General)	
Delivery Setting	
Family Assistance Centers/Disaster Recovery Centers	Field/Community
Private Homes	Faith-based Organizations

Schools

Delivery Setting		
Family Assistance Centers/Disaster Recovery Centers	Field/Community	
Private Homes	Faith-based Organizations	
Schools	Virtual	
Childcare	Websites and Social Media	
Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other	
Populations		

Experience Needed To Implement or Provide	
Advanced Degree and/or Professional Certification: Healthcare, mental health and substance use disorder treatment, or disaster behavioral health response professionals	С

Childcare	Websites and Social Media	
Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other	
Populations		
Children	First Responders/Disaster Responders	
Parents	People With Disabilities and Other Access and Functional Needs	
Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster	
Families	Other	
Experience Needed To Implement or Provide		
Advanced Degree and/or Professional Certification	Training (Paid)	
Training (Free)	Other:	
Research Base		
Empirically Supported Treatment (EST)	Evidence-supported Treatment (EST)	
Evidence-informed or Evidence-based Behavioral Practice (EBBP)	Qualitative Research	

# App-based Resources for the Public

## COGNITIVE PROCESSING THERAPY (CPT) COACH MOBILE APP

Authors: CPT Coach was developed through a collaborative effort involving the U.S. Department of Veterans Affairs' (VA) National Center for PTSD, the VA's Veterans Integrated Service Network 21 Sierra Pacific Mental Illness Research, Education, and Clinical Center, and the U.S. Department of Defense's Defense Health Agency Connected Health

Website: https://www.ptsd.va.gov/appvid/mobile/cptcoach\_app\_public.asp

Brief Description: CPT is an evidence- based psychotherapy for posttraumatic stress disorder (PTSD). CPT Coach is an app for mobile devices that was created as a supplement to enhance CPT outcomes for clinicians and patients working through the CPT treatment manual.<sup>39</sup> The app is downloaded onto a patient's mobile device to be used as a treatment companion during CPT. Following are some key features:

Education about CPT and its treatment components, including graphics
PTSD symptom tracking to evaluate treatment progress and outcomes over time

Homework assignments and worksheets to enhance therapy

Reminders for therapy sessions

Intervention Type		
Individual	Community	
Group	Peer Support	
Survivor Family	Other	
Family (General)		
Delivery Setting		

Childcare	Websites and Social Media	
Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other	
Populations		]
Children	First Responders/Disaster Responders	1
Parents	People With Disabilities and Other Access and Functional Needs	
Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster	
Families	Other: Those who have experienced a disaster >T	j( )229.92 546.7

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Delivery Setting	
Family Assistance Centers/Disaster Recovery Centers	Field/Community
Private Homes	Faith-based Organizations
Schools	Virtual
Childcare	Websites and Social Media
Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other
Populations	
Children	First Responders/Disaster Responders
Parents	People With Disabilities and Other Access and Functional Needs
Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster
Families	Other: Adults interested in developing or enhancing a mindfulness meditation practice

Research Base	
Empirically Supported Treatment (EST)	Evidence-supported Treatment (EST)
Evidence-informed or Evidence-based Behavioral Practice (EBBP)	Qualitative Research

#### Further References/Studies

Kuhn, E., Miller, K. E., Puran, D., Wielgosz, J., YorkWilliams, S. L., Owen, J. E., Jaworksi, B. K., Hallenbeck, H. W., McCaslin, S. E., & Taylor, K. L. (in press). A pilot randomized controlled trial of the Insomnia Coach mobile app to assess its feasibility, acceptability, and potential efficacy. *Behavior Therapy*. <a href="https://doi.org/10.1016/j.beth.2021.11.003">https://doi.org/10.1016/j.beth.2021.11.003</a>

## **HEALTHY MINDS PROGRAM APP**

Authors: Richard Davidson, Center for Healthy Minds at the University of Wisconsin-Madison

Waebsite:

Older Adults	People With Mental Illnesses and/or Substance	
	Use Disorders Before the Disaster	

# Childcare

Delivery Setting					
Family Assistance Centers/Disaster Recovery Centers	Field/Community				
Private Homes	Faith-based Organizations				
Schools	Virtual				
Childcare	Websites and Social Media				
Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other: Local CERT programs offer a variety of training options.				
Populations					
Children	First Responders/Disaster Responders				
Parents	People With Disabilities and Other Access and Functional Needs				
Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster				
Families	Other: CERTs respond in local areas affected by disaster.				
Experience Needed To Implement or Provide					
Advanced Degree and/or Professional Certification	Training (Paid)				
Training (Free)	Other: Anyone; cost may vary by location.				
Research Base					
Empirically Supported Treatment (EST)	Evidence-supported Treatment (EST)				
Evidence-informed or Evidence-based Behavioral Practice (EBBP)	Qualitative Research				

# Crisis Counseling Assistance and Training Program (CCP)

Authors: Federal Emergency Management Agency (FEMA) and

networking and support, assessment and referral, development and distribution of educational materials, and media and public service announcements. The CCP allows states, territories, and tribes to reach out to individuals, families, and communities after disaster to help them acknowledge and address emotions and other responses to disaster, understand typical disaster reactions, access resilience, and connect with professional mental health and substance use-related support if needed. Services provided through CCP are expected to transition to existing community resources as the program phases out, leaving communities with stronger ties and a legacy of recovery and resilience.

Intervention Type	
Individual	Community
Group	Peer Support

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Research Base	
Empirically Supported Treatment (EST)	Evidence-supported Treatment (EST)
Evidence-informed or Evidence-based Behavioral Practice (EBBP)	Qualitative Research

#### Further References/Studies

Norris, F. H., & Bellamy, N. D. (2009). Evaluation of a national effort to reach Hurricane Katrina survivors and evacuees: The Crisis Counseling Assistance and Training Program. *Administration and Policy in Mental Health and Mental Health Services Research*, 36, 165

Childcare	Websites and Social Media			
Clinical Health, Mental Health, and Substance Use Disorder Treatment Settings	Other: Telephone/text/chat			
Populations				
Children	First Responders/Disaster Responders			
Parents	People With Disabilities and Other Access and Functional Needs			
Older Adults	People With Mental Illnesses and/or Substance Use Disorders Before the Disaster			
Families	Other: People experiencing suicidality, people concerned that loved ones are experiencing suicidality, people experiencing distress or in crisis			
Experience Needed To Implement or Provide				
Advanced Degree and/or Professional Certification	Training (Paid)			
Ortaining (Free)	Other:			