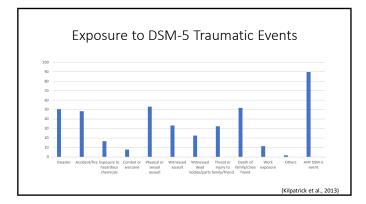




Torong and Charac Balata d Biographic	
Trauma and Stress Related Disorders	
<ul> <li>An inappropriately severe response to a trauma across a long period of time, resulting in functional impairment, can appear in many ways</li> </ul>	
Reactive Attachment Disorder	
<ul> <li>Disinhibited Social Engagement Disorder</li> <li>Posttraumatic Stress Disorder</li> </ul>	_
<ul><li>Acute Stress Disorder</li><li>Adjustment Disorders</li></ul>	
- Adjustifient disorders	
Major changes from DSM-IV to -5	_
Posttraumatic Stress Disorder     More specific about how event was experienced	
<ul> <li>Subjective reaction eliminated</li> <li>Four major symptom clusters rather than three</li> </ul>	
Developmentally sensitive for kids ages 6 or younger	
<ul> <li>Reactive Attachment Disorder now divided into two distinct diagnoses</li> </ul>	
<ul> <li>Emotionally withdrawn/inhibited (RAD)</li> <li>Indiscriminately social/disinhibited (Disinhibited Social Engagement Disorder)</li> </ul>	
	1
Common Features across TSRDs	
Intrusive Memories	
Avoidance	
Negative changes in thinking and mood	
Changes in emotional reactions	

#### PTSD in the DSM-5

- Criterion A: Exposure
- The person was exposed to: death, threatened death, actual or threatened serious injury, or actual or threatened sexual violence, as follows:
  Direct exposure
  Witnessing, in person
  Indirectly, by learning that a close relative or close friend was exposed to trauma. If the event involved actual or threatened death, it must have been violent or accidental.
  Repeated or extreme indirect exposure to aversive details of the event(s), usually in the course of professional duties (e.g., first responders, collecting body parts; professionals repeatedly exposed to details of child abuse)
  This does not include indirect non-professional exposure through electronic media, television, movies or pictures



#### PTSD in the DSM-5

- Criterion B: Intrusion symptoms (at least 1)
- Spontaneous or cued recurrent, involuntary, and intrusive distressing memories of the event(s).
- 2. Recurrent distressing dreams in which the content and/or affect of the dream is related to the event(s).
- Dissociative reactions (e.g., flashbacks) in which the individual feels or acts as if the event(s) were recurring
- Intense or prolonged psychological distress at exposure to internal or external cues that symbolize or resemble an aspect of the event(s)
- 5. Marked physiological reactions to reminders of the event(s)

Р٦	<b>TSD</b>	in	the	DSN	1-5

- Criterion C: Persistent avoidance of stimuli associated with the trauma (at least 1)
- Avoids internal reminders (thoughts, feelings, or physical sensations) that arouse recollections of the traumatic event(s)
- Avoids external reminders (people, places, conversations, activities, objects, situations) that arouse recollections of the traumatic event(s).

#### PTSD in the DSM-5

- $\bullet$  Criterion D: Negative alterations in cognitions and mood that are associated with the traumatic event (3 or more)
- 1. Inability to remember an important aspect of the traumatic event(s)
- Persistent and exaggerated negative expectations about one's self, others, or the
- Persistent distorted blame of self or others about the cause or consequences of the traumatic event(s)
- 4. Pervasive negative emotional state
- 5. Markedly diminished interest or participation in significant activities
- 6. Feeling of detachment or estrangement from others
- 7. Persistent inability to experience positive emotions

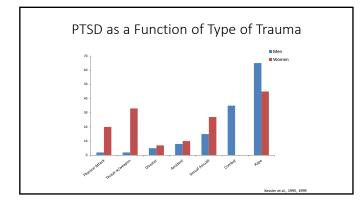
## PTSD in the DSM-5

- Criterion E. Alterations in arousal and reactivity that are associated with the traumatic event (3 or more)
- 1. Irritable or aggressive behavior
- 2. Reckless or self-destructive behavior
- 3. Hypervigilance
- 4. Exaggerated startle response
- Problems with concentration
- 6. Sleep disturbance

-	

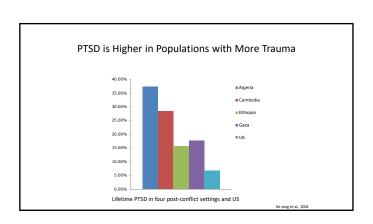
PTSD in the DSM-5  F. Persistence of symptoms (in Criteria B, C, D and E) for more than one month  G. The symptoms cause clinically significant distress or impairment in social, occupational, or other important areas of functioning	
H. Not due to medication, substance or illness	
DSM-5 PTSD, Preschool Subtype  Relative to broader diagnosis for those over 6 years, several changes  Criterions A and B – no change  Criterions C and D – only need 1 symptom from either one C cluster – no change D cluster – 4 instead of 7 symptoms Does not include amnesia, foreshortened future, persistent blame of self or others  Criterion E – only 2 symptoms needed Preschool does not include symptom of "reckless behavior"	
	1
PTSD Specifiers  With dissociative symptoms The individual's symptoms meet the criteria for PTSD and the individual experiences persistent or recurrent symptoms of either of the following:  Depersonalization Persistent or recurrent experiences of feeling detached from, and as if one were an outside observer of, one's mental processes or body Feeling as though one were in a dream, feeling a sense of unreality of self or body or of time slowly moving Derealization: Persistent or recurrent experiences of unreality of surroundings The world around the individual is experienced as unreal, dreamlike, distant, or disordered	

PTSD Specifiers  • With delayed expression  • If the full diagnostic criteria is not met until at least 6 months after the event.	
PTSD Prevalence  • Almost 90% of adults have experienced a traumatic event in their lifetime  • More than 25% experience multiple traumas  • Lifetime rate for composite PTSD is 9.4%, current rate 4.2%  • Lifetime rate for same event PTSD is 8.3%, current rate 3.8%	
Trauma exposure alone does NOT mean someone will develop PTSD	



## **Most Vulnerable Populations**

- $\bullet$  Those whose experience was especially terrifying or extreme
- Children between 5-10 years of age, especially if separated from parents
- Those without strong social support networks
- Those with a prior history of any type of traumatic experience



PTSD Risk Factors	
Pretraumatic event: Female gender Some genetic factors ( <i>LGLAS13</i> variants) Childhood trauma Previous psychiatric problems Lower level of education Lower socioeconomic status Minority race	
PTSD Risk Factors  • Peritraumatic event:	
<ul> <li>Greater perceived threat or danger, and helplessness increases risk</li> <li>Unpredictability and uncontrollability of traumatic event also increases risk</li> <li>Posttraumatic event:         <ul> <li>Lack of social support, life stress, attributions</li> </ul> </li> </ul>	
	-
Gender Differences	
Much higher rates in females in civilian populations	
<ul> <li>Equal rates seen in military populations, although some controversy over this</li> </ul>	

### Impact of PTSD

- Elevated risk of mood, other anxiety, and substance abuse disorders
- 6x greater chance of suicide that other mental disorders
- Greater functional impairment across domains
- Reduced quality of life
- Elevated risk of poor physical health (heart disease, Type II diabetes, GI)

How do we know what works for PTSD?

## **Shifting Tides**

- Huge push today for mental health practitioners to utilize evidence-based practice (EBP)
- EBP is "the conscientious, explicit, and judicious use of current best evidence in making decisions about the care of individual patients."
- Combination of being culturally aware, forging good clinical relationships, and using evidence-based treatments (EBT) based on sound case formulations

Sackett et al., 1996

Importance of Research	
<ul> <li>Healthcare providers who use EBT rely heavily on valid and reliable research studies</li> </ul>	
Such research is critical because of	
<ul> <li>how easily bias can creep into our everyday decision making</li> <li>how influenced we are by powerful social forces, such as advertising</li> <li>the strength of the placebo effect</li> </ul>	
Regression to the mean for conditions	
"Does this treatment work?"	
Instead of that, we must ask both:	
"Does this treatment work better than a placebo?"     "Would this condition naturally improve over time, even with no	
intervention?"	
<ul> <li>Only when something is better than a placebo and shows more improvement than regression to the mean does it "work"</li> </ul>	
The Blind Researching the Blind	
<ul> <li>The best way to conduct research on treatment outcomes is through the use of randomized, placebo-controlled, double-blind procedures (RPCDB)</li> </ul>	
<ul> <li>These types of high quality clinical trials (RCTs) are what need to be relied on, in order to determine if something is an EBT</li> </ul>	
We can then start pooling the data from RCTs to perform larger scale meta-analyses	

#### **RPCDB** in Action

- Divide the entire group of people in the study randomly into the treatment and control arms
- 2. Compare the treatment to a *matched* type of placebo, rather than nothing
- 3. Participants should not know what treatment arm they are in (being blinded)
- 4. The researchers examining outcomes should also not know what arm a participant is (being double-blinded)

### The Gold Standard

- This type of trial is critical, as it can control for bias, placebos, and regression to the mean
- Studies that don't meet these criteria can show treatments to work, when they actually don't, and people instead get better from a) time or b) just being in any type of treatment



#### Treatments for PTSD

- Gold-standard
  - Highest level of evidence to support use
- Second-line
  - Less or mixed evidence
- Pseudoscientific
  - $\bullet$  Evidence to support  $\it not$  using them, or a lack of scientific validity

	]
Non-Static Categories	-
As in all science, our understanding of health treatments is constantly	
evolving	
<ul> <li>This means that treatments can move from "mainstream" to "alternative" and vice versa</li> </ul>	
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Clinical Practice Guidelines	
<ul> <li>Large scale reviews were conducted by the American Psychological Association and the Veterans Health Administration and published in</li> </ul>	
2017	
<ul> <li>Slightly different methods were used</li> <li>Both used independent systematic reviews and expert reviews</li> </ul>	
<ul> <li>Both looked for published RCTs, but for different time frames</li> <li>APA – 2012 to 2016</li> </ul>	
• VA/DoD – 2009 to 2016	
	1
Clinical Practice Guidelines	-
<ul> <li>Due to different criteria, produced slightly different but majorly overlapping lists of strongly recommended and recommended</li> </ul>	
therapies	
Overall, found the use of trauma-focused, cognitive-behavioral	
interventions to treat PTSD should be first line interventions	
	1

Clinical Practice Guidelines	
VA/DoD     Strongly recommend:     • CBT, CPT, PE, CT     • CBT, CPT, PE, EMDR, BEP, WET	
<ul> <li>Recommended:</li> <li>EMDR, BEP, WET</li> <li>SIT, PCT, IPT</li> </ul>	
Gold Standard Treatments	
CBTs for PTSD	
All the shared "strongly recommended" treatments between the	
guidelines are various forms of cognitive-behavioral therapy	
<ul><li>CBT (trauma focused and non-focused)</li><li>Cognitive processing therapy</li></ul>	
Prolonged Exposure therapy	

CBTs for PTSD	
The various forms of CBT are much more effective than medications	
in reducing PTSD symptoms	
<ul> <li>Medication is more readily available and can be useful for treating comorbid problems or lowering symptoms enough to be able to</li> </ul>	
engage in doing CBT  • SSRIs are most well studied, outperform placebos	
Venlafaxine (Effexor), a SNRI, slightly outperforms SSRIs	
	ı
CBTs for PTSD	
General shared components are     Psycho-education	
<ul> <li>Anxiety management</li> <li>Exposure to feared memories/situations</li> <li>Cognitive restructuring</li> </ul>	
Enormous amount of literature showing that exposures are the key	
aspect and driver of change	
Prolonged Exposure (PE)	
Based on emotional processing theory (Foa & Kozak)     Traumatic events are not processed emotionally at the time of the event	
Causes dysfunctional fear structures that become problematic	
To alter these fear structures, you need to	
<ul> <li>Activate them</li> <li>Incorporate new, incompatible information into them</li> </ul>	
This is done via repeated exposure with response prevention	

Prolonged Exposure (PE)	
Psycho-education: Patient learns about trauma and PTSD	
Breathing skills: Learns to manage anxiety	
3. In vivo exposure: Confronts feared stimuli in real life	
<ol> <li>Imaginal exposure: Involves mental exposure to trauma by repeated telling of memories</li> </ol>	
0.   (0.5)	
Prolonged Exposure (PE)	
Usually takes 8-15 sessions	
Large body of basic and applied research dating back decades	_
Meta-analyses of RCTs find PE patients are better than 86% of control condition patients	
<ul> <li>Depending on study, 41-95% are non-diagnosable for PTSD by end of treatment</li> </ul>	
	1
Cognitive Processing Therapy (CPT)	
Draws on emotional processing theory as well as social cognitive	
theory  • Assumes survivors attempt to make sense of what happened, which leads to	
distorted cognitions	
<ul> <li>Trauma survivors often assimilate, accommodate, or over- accommodate</li> </ul>	
CPT shifts beliefs toward accomodation	

	•
Cognitive Processing Thereasy (CDT)	
Cognitive Processing Therapy (CPT)	
Education about PTSD, thoughts and emotions	
2. Processing trauma (with or without account)	_
3. Challenging thoughts	
4. Cognitive restructuring	
Cognitive Processing Therapy (CPT)	
Treatment manual covers 12 sessions, can be done individually or in a group	
<ul> <li>Roughly two decades worth of solid research support</li> <li>Meta-analyses show reductions similar to PE</li> <li>Maintains results at 5 and 10 year follow ups</li> </ul>	
Depending on study, 30-90% are non-diagnosable for PTSD by end of	
treatment	
"CBT" for PTSD	
Top tier recommendation from both APA and VA/DoD	
<ul> <li>Refers to a more modular, slightly less structured format</li> <li>Can be trauma or non-trauma focused</li> </ul>	
Still shares same components, with ERP and cognitive restructuring	
showing best impact on symptoms	

TF-CBT	
Developed specifically for children and adolescents, as a downward extension of PE	
Strongest research evidence of any treatment model for traumatized	
children, both RCTs and published meta-analysis	
Can go from 12-25 sessions, usually 60-90 minutes	
TF-CBT Components	
Psychoeducation about child trauma and trauma reminders     Parenting component including parenting skills	
Relaxation skills individualized to youth and parent     Affective modulation skills tailored to youth, family and culture	
<ol> <li>Cognitive coping: connecting thoughts, feelings and behaviors</li> <li>Trauma narrative and processing</li> </ol>	
In vivo mastery of trauma reminders     Conjoint youth-parent sessions	
Enhancing safety and future developmental trajectory     Traumatic grief components	
Why use the CBTs?	
The guidelines and strong research evidence suggest these should be the first line of treatment for PTSD whenever possible, considering	
patient preferences and values and clinician expertise	
No support for adverse side effects	
<ul> <li>Research shows patients prefer them to both medications and other psychotherapy treatments</li> </ul>	
	-

Seco	nd-Line Treatments

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- The following have either less evidence to support them, mixed evidence, or issues with their underlying assumptions
- Written exposure therapy (WET)
- Brief eclectic psychotherapy (BEP)
- Eye movement desensitization therapy (EMDR)
- Stress inoculation training (SIT)
- Interpersonal therapy (IPT)

### Written Exposure Treatment

- Developed to address high dropout rates and long treatment times of other forms of CBT
- Large amount of research on it has been published *since* the guidelines came out (2018-2021)
  - Comparable results to 12 sessions of CPT in head-to-head trial
  - 60 week follow up showed 68% no longer met PTSD criteria
  - Under 10% dropout rate, compared to 25-40% for other CBTs
  - $\bullet$  Used cross-culturally  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right)$  under the constant of the

Written Exposure Treatment	
1. Psychoeducation about trauma and avoidance	
Five sessions of specific writing exposures	
Can do more if needed	
<ul> <li>When re-evaluated, will definitely move to "strongly recommended" on both APA and VA/DoD list</li> </ul>	
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	]
Brief Eclectic Psychotherapy	
Combines CBT elements with a PD approach	
<ol> <li>Psychoeducation</li> <li>Exposure</li> </ol>	
Relaxation     Cognitive processing	
5. Support building	
<ul> <li>Research is on 16 sessions, usually once weekly</li> <li>Change is almost certainly due to ERP and CT aspects</li> </ul>	
- Change is annost certainly due to ERF and CT aspects	
EMDR	
EMDR therapy uses a structured eight-phase approach that includes:	
<ul> <li>Phase 1: History-taking</li> <li>Phase 2: Preparing the client</li> <li>Phase 3: Assessing the target memory</li> </ul>	
Phases 4-7: Processing the memory to adaptive resolution     Phase 8: Evaluating treatment results	
Differs from other trauma-focused treatments in that it does not	
include extended exposure to the distressing memory, detailed descriptions of the trauma, challenging of dysfunctional beliefs or	
homework assignments	

EMDR	
White data and the second data are second about the	
<ul> <li>While widely used, it's controversial due to research showing the bilateral stimulations are not actively contributing to change</li> </ul>	
Dismantling studies show EMDR without BLS is as effective as EMDR	
with BLS	
• "Despite the demonstrable efficacy of EMDR, these studies call into	
question EMDR's theoretical rationale."	
(Work Group on ASD and PTSD, 2004)	
(Work droup on App and 1130, 2004)	
EMDR	_
EMDR appears to be a 'purple hat therapy' – the imaginal exposures	
are the actual drivers of change	
Same goes for the offshoot of Accelerated Resolution Therapy (ART)	
	1
Stress Inoculation Training	
<ul> <li>Another form of CBT, focuses on raising awareness of triggers and teaching coping skills</li> </ul>	
Deep breathing     Muscle relaxation	
Cognitive restructuring	
Imaginal exposure/problem solving	

## Interpersonal Therapy

- ullet The only second-line treatment with no focused trauma exposure
- Defines an interpersonal crisis arising from trauma and helps resolve it via fairly traditional IPT
  - Grief
  - Role dispute
  - Role transition
- Usually 14+ weekly sessions



## Pseudoscientific Therapies

- These are usually treatments that have been found to be some combination of:
  - Ineffective
  - Actively harmful
  - Shaky theoretical foundations or no support for their core assumptions

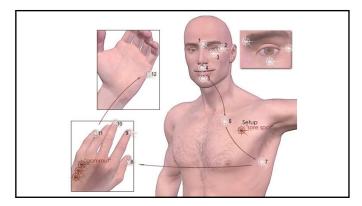
Pseudoscientific PTSD Therapies	
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Critical incident stress management (CISM)	
Emotional freedom technique (EFT) and thought field therapy (TFT)	
Rapid resolution therapy (RRT)	
Somatic experiencing therapy (SET)	
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Critical Incident Stress Management	
Critical Incident Stress Management	
<ul> <li>CISM ("psychological debriefing") was developed in early 1980s to prevent development of PTSD symptoms</li> </ul>	
Based on two assumptions	
<ul> <li>Trauma exposure alone is enough to cause a person to experience long-term psychological difficulties</li> </ul>	
Early interventions can prevent such problems from developing	
• Neither of these are supported by the research	
	1
Critical Incident Stress Management	
<ul> <li>All evidence supporting CISM is anecdotal and most is from the developer of it</li> </ul>	
<ul> <li>World Health Organization and British National Health Service implemented policies against its use</li> </ul>	
<ul> <li>"Although [CISM] is widely used throughout the world to prevent PTSD, there is no convincing evidence that it does so."</li> </ul>	
(McNally et al., 2003)	1

### CISM is not PFA

- Psychological First Aid (PFA) was developed by the National Center for PTSD and National Child Traumatic Stress Network
- Contact and Engagement
- Safety and Comfort
- Stabilization (if needed)
- Information Gathering on Current Needs and Concerns
- Practical Assistance
- Connection with Social Supports
- Information on Coping
- Linkage with Collaborative Services

# "Tapping" Therapies

- Thought Field Therapy (TFT) is based on the idea of an invisible energy field that surrounds the human body
- One can these <u>repeatedly tap on places</u> in the body where these fields intersect, releasing negative emotions
- Similar to acupuncture's ideas, but for PTSD



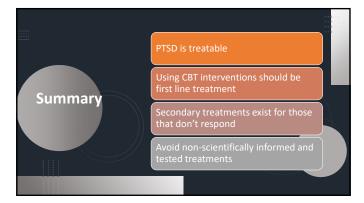
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Thought Field Thorony	
Thought Field Therapy	
"often works when nothing else will It has been used for weight loss, stop smoking [sic], phobias, trauma relief, love pain, and much, much more."	
"When applied to problems TFT addresses their fundamental causes,	
providing information in the form of a healing code, balancing the body's energy system and allowing you to eliminate most negative emotions within minutes and promote the body's own healing ability."	
(rogercallahan.com, n.d.)	
(regarders)	
"Tapping" Therapies	-
No support for such "energy" even existing	
No sound outcome research, and no theoretical reason to think it	
might work	
<ul> <li>Emotional Freedom Techniques (EFT) are very similar, with equally little evidence</li> </ul>	
	_
Rapid Resolution Therapy	
<ul> <li>Combines hypnosis, guided imagery, and use of specific stories to supposedly address the "emotional brain" and limbic system</li> </ul>	
Usually 2-6 sessions (hence the "rapid" name)	
No controlled research, despite being 30 years old as a modality	

### Somatic Experiencing Therapy

- "Neurobiology-based somatic approach to working with trauma [which] resides in the nervous system and not in the event itself."
- Based on ideas by Levine and Van Der Kolk, posits that other animals don't experience PTSD after trauma, but humans somehow override the natural impulse to "shake out all the stored fear and energy" which will leave you in a "frozen" state
- Little evidence supporting underlying biological ideas, no evidence that such "energy" exists, ignores how memory works, and lack of treatment outcome studies

## "Energy" Therapies

- Critical thinking principles go on high alert with TFT/EFT/RRT/SET
  - Inability to falsify claims
  - Reliance on anecdotal evidence
  - Claims of miraculous success
- These are all hallmarks of pseudoscience



Questions?	
Contact:	
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Available On Demand Trainings	
PE online training - <a href="http://pe.musc.edu/introduction">http://pe.musc.edu/introduction</a>	
• CPT online training - <a href="https://cpt2.musc.edu/">https://cpt2.musc.edu/</a>	
• TF-CBT online training – <a href="https://tfcbt2.musc.edu/">https://tfcbt2.musc.edu/</a>	
WET online training - <a href="https://ecpd.mclms.net/en/package/7966/view">https://ecpd.mclms.net/en/package/7966/view</a>	
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Key Resources	
<ul> <li>Watkins, L. E., Sprang, K. R., &amp; Rothbaum, B. O. (2018). Treating PTSD:         A Review of Evidence-Based Psychotherapy Interventions. Frontiers in behavioral neuroscience, 12, 258. (link)     </li> </ul>	
APA's Clinical Practice Guideline for the Treatment of Posttraumatic Stress Disorder (PTSD) in Adults ( <u>link</u> )	
VA/DoD Clinical Practice Guidelines ( <u>link</u> )	

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- Lynn, S. J., Evans, J., Laurence, J.-R., & Lilie
- nfeld, S. O. (2015). What Do People Believe about Memory? Implications for the Science and Pseudoscience of Clinical Practice. *The Canadian Journal of Psychiatry, 60*(12), 541–547. (link)
- Lilienfeld, S.O., Lynn, S.J., & Lohr, J.M. (2014). Science and pseudoscience in clinical psychology (2<sup>nd</sup> edition). Guilford. (<u>link</u>)