

# Pediatric Post-traumatic Stress Disorder, Complex Traumatic Stress Disorder, and Developmental Trauma Disorder Symptomatology: An Integrative Review





Alison Sturgill RN MSN CPNP-PC

### Introduction

- This is an integrative review of the literature of trauma symptoms in children based on the diagnostic criteria for post-traumatic stress disorder (PTSD), complex traumatic stress disorder (cPTSD), and developmental trauma disorder (DTD).
- Nearly 50% of children in the United States will experience a traumatic event in early childhood, causing adversity early in life (Copeland, et. al., 2007).
- The impact of the trauma exposure can be extensive (Ford et al., 2018).
- There are wide ranging effects on a child's neurodevelopment and psychosocial functioning.
- Early identification and treatment related to childhood traumatic symptoms leads to improve developmental, emotional, and health outcomes in childhood and adulthood.
- Stress and untreated mental health symptoms can have negative impacts on one's physical health across the lifespan as was established in The Adverse Childhood Experiences Study.



## Objectives

- Define PTSD, cPTSD, and DTD in the pediatric population.
- To date, no integrative review has been conducted on the existing literature to disentangle symptomatology and related psychiatric diagnoses of trauma in children for PTSD, cPTSD, and DTD.



#### Method: Literature search

- Search terms included: "post-traumatic stress disorder (PTSD),"
   "developmental trauma disorder (DTD)", "complex traumatic
   stress", "developmental trauma", "pediatrics", "child/children",
   and "symptoms."
- Keyword terms were entered into PubMed, CINAHL, and Web of Science for years 1999 to 2021, yielding 216 results.

Pubmed

Pubmed

Number of studies from databases

Number of studies after duplicates removed

Number of studies selected based on abstract and/ or whole content review

Number of studies selected based on abstract and/ or whole content review

#### Results

- A total of 12 articles met full study eligibility criteria.
- None of the articles assessed for presence of pediatric trauma related symptom clusters.
- Symptomatology/Psychiatric Diagnosis Identified :
- 1) externalizing behaviors, 2) anxiety, 3) depression, 4) mood disorder, and 5) fear.
- Most articles focused on ages 3 years-21 years.
- 17 different trauma assessment tools used to assess. All tools are validated for use in children.

#### Conclusions

- Symptoms and correlated psychiatric diagnoses were explored within this review including 1) externalizing behaviors, 2) anxiety, 3) depression, 4) mood disorder, and 5) fear. These are co-occurring and inter-related.
- The presence of symptom clusters for trauma based diagnoses in children require further study to delineate symptomatology and to determine the bio-behavioral pathways to those symptoms.
- A more consistent use of several screening tools within this population is should be explored to standardize results for pediatric trauma symptoms.
- Consideration of age and developmental stage of the child at the time of both the traumatic experience(s) and trauma assessment is key to appropriately interpreting the results



#### References

Copeland WE, Keeler G, Angold A, Costello EJ. Traumatic events and posttraumatic stress in childhood. Arch Gen Psychiatry. 2007;64(5):577–584

Ford, J. D., Spinazzola, J., & van der Kolk, B. (2021). Psychiatric comorbidity of developmental trauma disorder and posttraumatic Stress disorder: Findings from the DTD field trial replication (DTDFT-R). European Journal of Psychotraumatology, 12(1), 1929028. <a href="https://doi.org/10.1080/20008198.2021.1929028">https://doi.org/10.1080/20008198.2021.1929028</a>

Ford, J. D., Spinazzola, J., van der Kolk, B., & Grasso, D. J. (2018). Toward an Empirically Based Developmental Trauma Disorder Diagnosis for Children: Factor Structure, Item Characteristics, Reliability, and Validity of the Developmental Trauma Disorder Semi-Structured Interview. The Journal of Clinical Psychiatry, 79(5), 17m11675. https://doi.org/10.4088/JCP.17m11675

Spinazzola, J., van der Kolk, B., & Ford, J. D. (2018). When Nowhere Is Safe: Interpersonal Trauma and Attachment Adversity as Antecedents of Posttraumatic Stress Disorder and Developmental Trauma Disorder. Journal of Traumatic Stress, 31(5), 631–642. <a href="https://doi.org/10.1002/jts.22320">https://doi.org/10.1002/jts.22320</a>

#### Acknowledgements

The Blue Ridge Leadership Education in Neurodevelopmental Disabilities (Blue Ridge LEND) and this project is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of an award totaling \$2,242,875. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by HRSA, HHS, or the U.S. Government. For more information, please visit HRSA.gov.