RECOGNIZING AND TREATING PTSD IN THE PEDIATRIC PATIENT

Brooks Keeshin, MD, FAAP
Assistant Professor, University of Utah Department of Pediatrics

Traumatic Stress

- Directly related to stress focused DSM diagnoses
- Strongly associated with other DSM diagnoses
 - Depression**
 - Anxiety
 - ADHD
- □ Framework identifies pediatric treatment course
 - What to do now
 - What to do next
 - What to follow

Post Trauma Experience

- Additional Trauma Experiences and Adversities
- Suicidality
- Traumatic Stress Symptoms
 - Intrusive Symptoms
 - Avoidance
 - Negative Thoughts and Mood
 - Hyperarousal
 - \Box +/- Dissociation

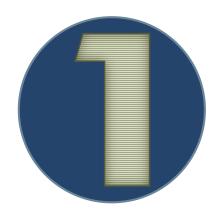
AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY

"Trauma-focused psychotherapies should be considered first-line treatments for children and adolescents with PTSD."

Care Process Model for Pediatric Traumatic Stress

National Child Traumatic Stress Network Centers





Determine if reportable event



Assess suicide risk



Assess for trauma treatment

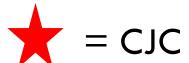
Sometimes violent or very scary or upsetting things happen. This could be something that happened to your child or something your child saw. It can include being badly hurt, someone doing something harmful to your child or someone else, or a serious accident or serious illness. □ No Has something like this happened to your child RECENTLY? ☐ Yes If 'Yes,' what happened? Has something like this happened to your child IN THE PAST? □ No ☐ Yes If 'Yes,' what happened? **Frequency Rating Calendar** Select how often your child had the problem below in the past month. Use the calendar on the right to help you decide how often. HOW MUCH OF THE TIME DURING THE PAST MONTH... None Little Much Some Most My child has bad dreams about what happened or other bad dreams. 0 3 My child has trouble going to sleep, waking up often, or has trouble 0 1 2 3 getting back to sleep. My child has upsetting thoughts, pictures, or sounds of what happened 0 2 3 1 come to mind when he/she doesn't want them to. When something reminds my child of what happened, he/she has strong feelings in his/her body, like his/her heart beats fast, head aches, 0 2 3 or stomach aches. When something reminds my child of what happened, he/she gets very 0 1 2 3 4 upset, afraid, or sad. My child has trouble concentrating or paying attention. 2 3 0 1 My child gets upset easily or gets into arguments or physical fights. 0 3 My child tries to stay away from people, places, or things that remind 0 3 1 2 him/her about what happened. My child has trouble feeling happiness or love. 0 2 3 1 10 My child tries not to think about or have feelings about what happened. 0 1 2 3 11 My child has thoughts like "I will never be able to trust other people." 0 3 My child feels alone even when he/she is around other people. 0 1 2

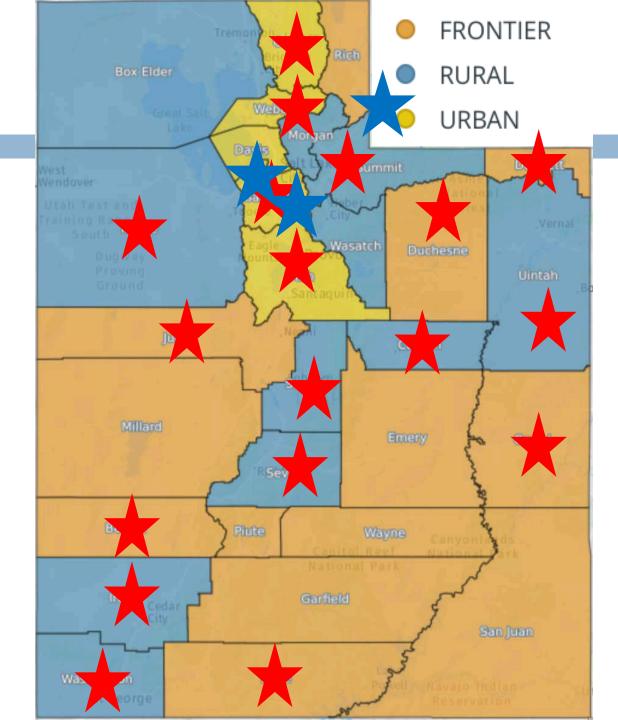
12	*Over the last 2 weeks, how often has your child been bothered by thoughts	Not at all	Several	half the	Nearly
13	that he/she would be better off dead or hurting him or herself in some way?	Nocacan	days	days	every day

Update on Pilot Efforts

- Success in picking up traumatic exposures and stress
- Clinical implications

Pilot Sites **Across Utah**





Data from CJCs in Utah

Screened for Trauma	1 <i>75</i> 8 (100%)	High risk PTSD	767 (44%)	Suicide Risk	643 (39%)
Ages 3-9 (parent report)	398 (23%)	Ages 3-9	117 (31%)	Ages 3-9	54 (14%)
Ages 10-18 (self report)	1338 (77%)	Ages 10-18	652 (51%)	Ages 10-18	590 (46%)
Rural	702 (39%)	Sexual Abuse	1258 (71%)	Caucasian	1394 (79%)
Female	1251 (71%)	Physical Abuse	301 (17%)	Hispanic	226 (13%

Variations between 14 CACs

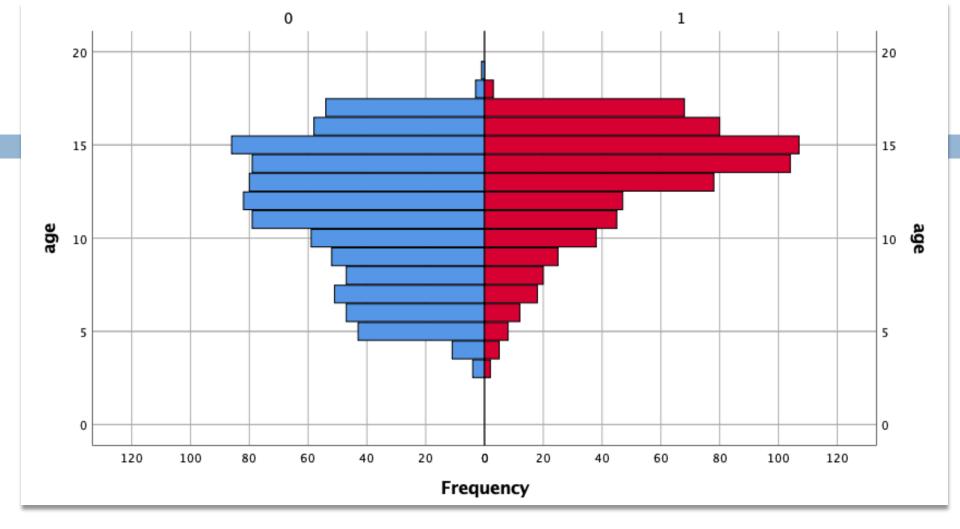
- No significant variation in age
- % Caucasian varied from 65 to 90%
- □ Female: 50%-85%
- □ SA: 45%-90%
- □ PA: 6%-42%
- PTSD: 30%-60% and Suicidality: 25-60%
 - older, self reporting kids
- □ Trauma treatment referral: 18%-83%
- □ 50% of all crisis referrals by one center for suicide

Combining factors – PTSD risk

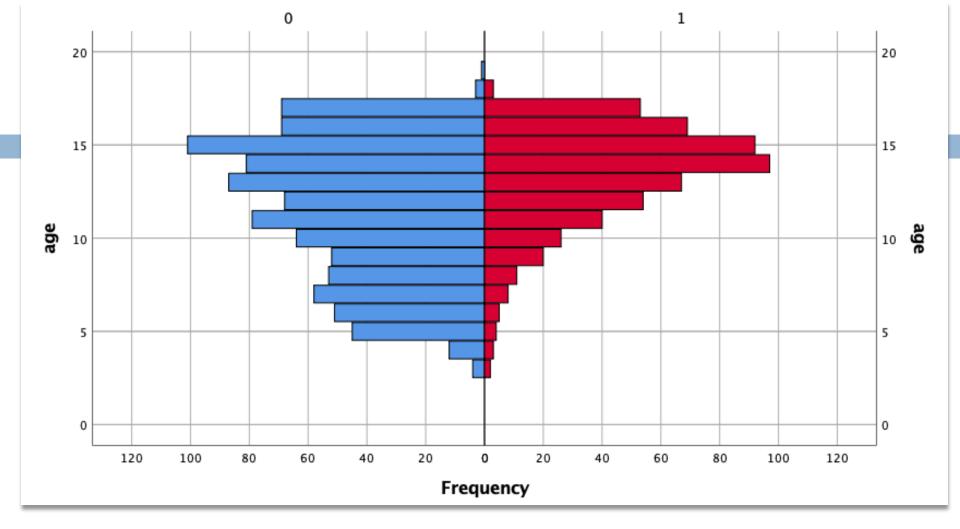
- Gender, urban environment and suicidality all predict PTSD
- In older kids, those most at risk for PTSD included:
 - □ Female (2x risk), SA (1.5x risk), Urban (1.4x risk) & suicidal (6x risk)
- In younger kids, those most at risk for PTSD included:
 - Suicidal (5x risk)

Combining Factors - Suicidality

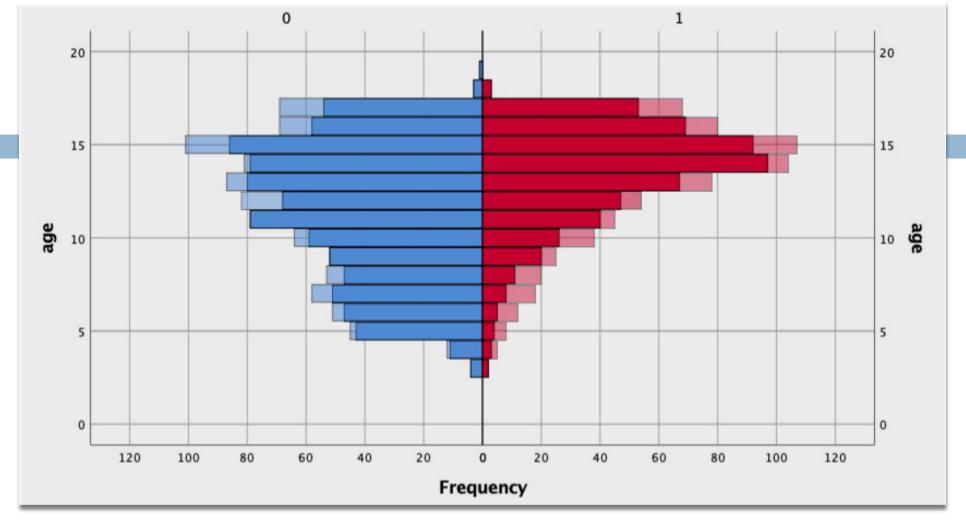
- Age, gender, and PTSD all associated with risk of suicidality
- In older kids, those most at risk for suicidality included:
 - PTSD (6x risk) and female gender (2x risk)
- In younger kids, those most at risk for suicidality included:
 - PTSD (5x risk) and male gender (2x risk)
- □ Pattern holds for high risk suicidal youth PTSD adolescents are 5x more likely to report high risk on CSSRS (10% of all adolescents)



Risk of PTSD



Risk of Suicidality

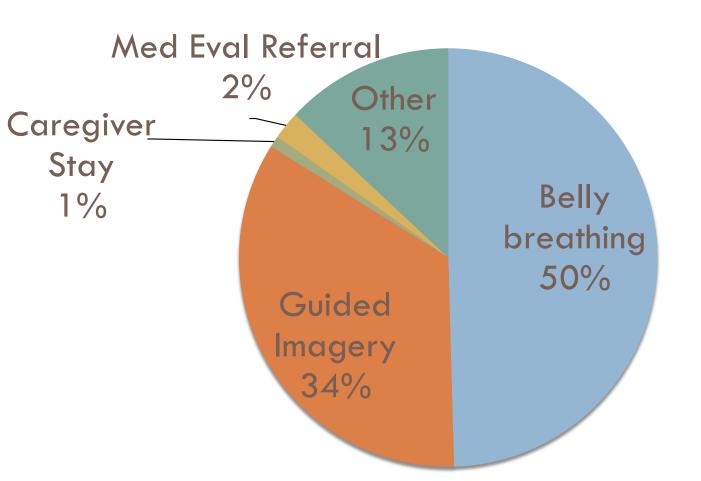


High Correlation between PTSD and Suicidality

- 0.46 in older youth
- 0.28 in younger children

CJC Responses to Trauma Symptoms

Guidance for Sleep Problems



45% of Families
assisted with accessing
Evidence Based
Trauma services

Ongoing partnership with
National Children's
Alliance to ensure these
efforts can apply to
similar centers nationwide

Primary Care Experience

>1300 Screens at Primary Care

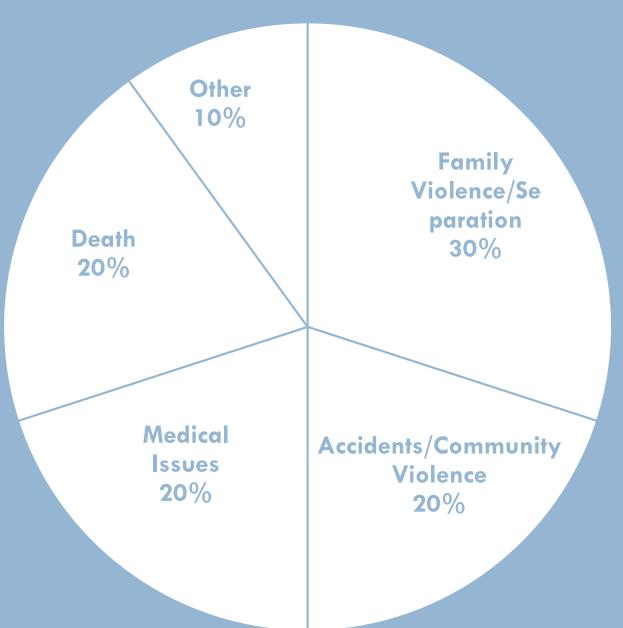
Self Report (746)

□ 24.5% with trauma exposure

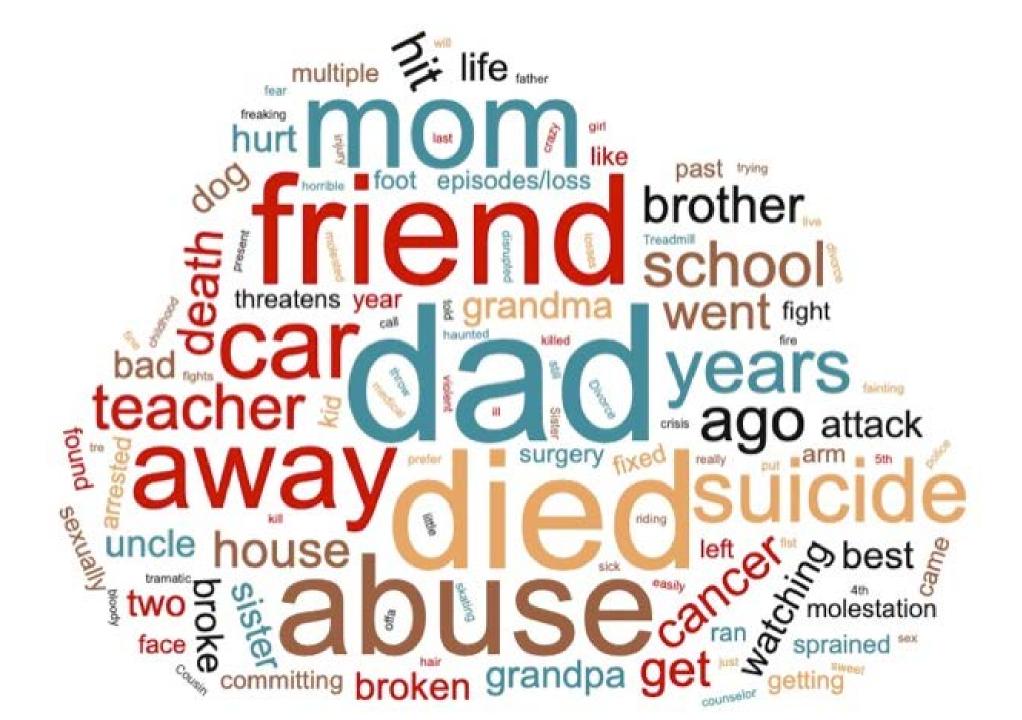
Parent Report (559)

□ 19.5% with trauma exposure

SELF REPORTED POTENTIALLY TRAUMATIC EVENTS







>1300 Screens at Primary Care

Self Report (746)

- □ 24.5% with trauma exposure
- □ 8.3% high trauma sx
- □ 8.4% mod trauma sx
- □ 9-10% with suicidal ideation

Parent Report (559)

- □ 19.5% with trauma exposure
- □ 1.9% high trauma sx
- □ 5.9% mod trauma sx
- □ 2% with suicidal ideation**

Pediatric Traumatic Stress and Depression

PTSD symptom cluster		Overlapping trauma and depressive symptoms
Negative cognition/mood	→	Negative belief towards self, self-blame, negative emotional state, loss of interest, detachment
Hyperarousal & Increased reactivity	→	Irritable and angry, reckless and self- destructive behavior, poor concentration, sleep disturbances

Relative Effectiveness - Psychotherapy vs SSRI

Depression	PTSD
SSRI + Therapy +	SSRI —/Therapy — TFCBT +

Trauma versus Depression Screening (582)

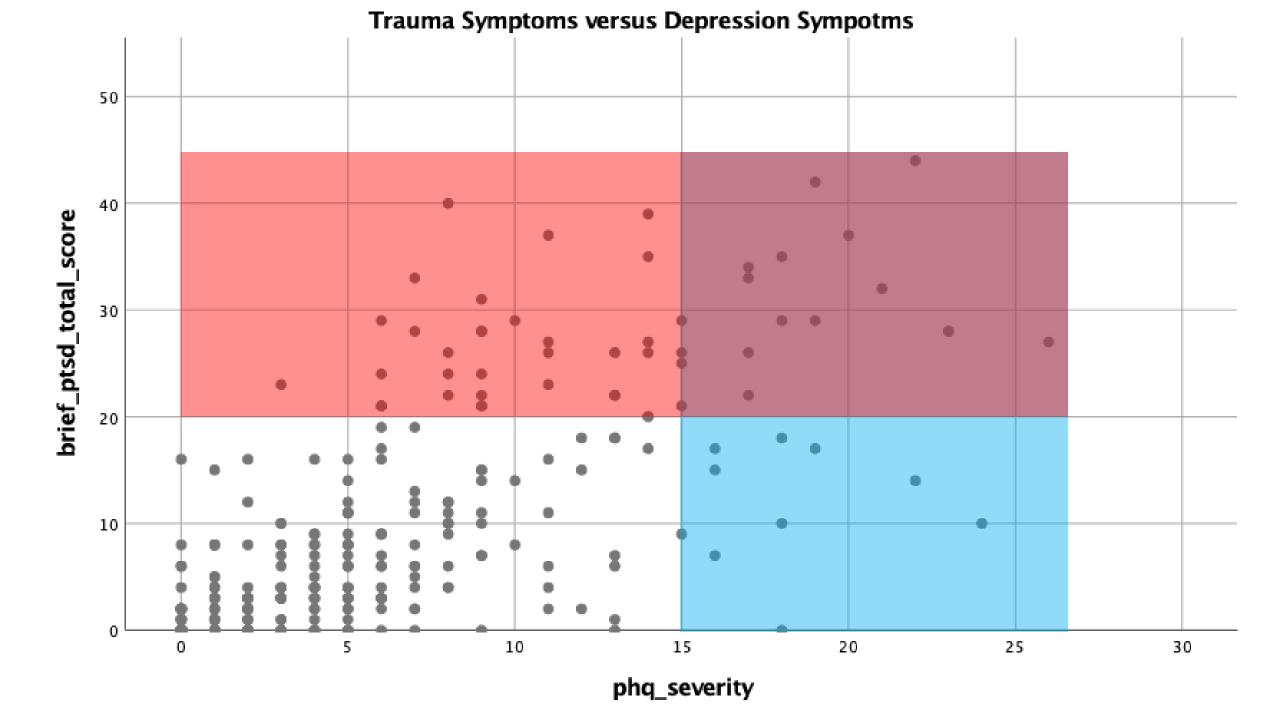
Self Report Trauma

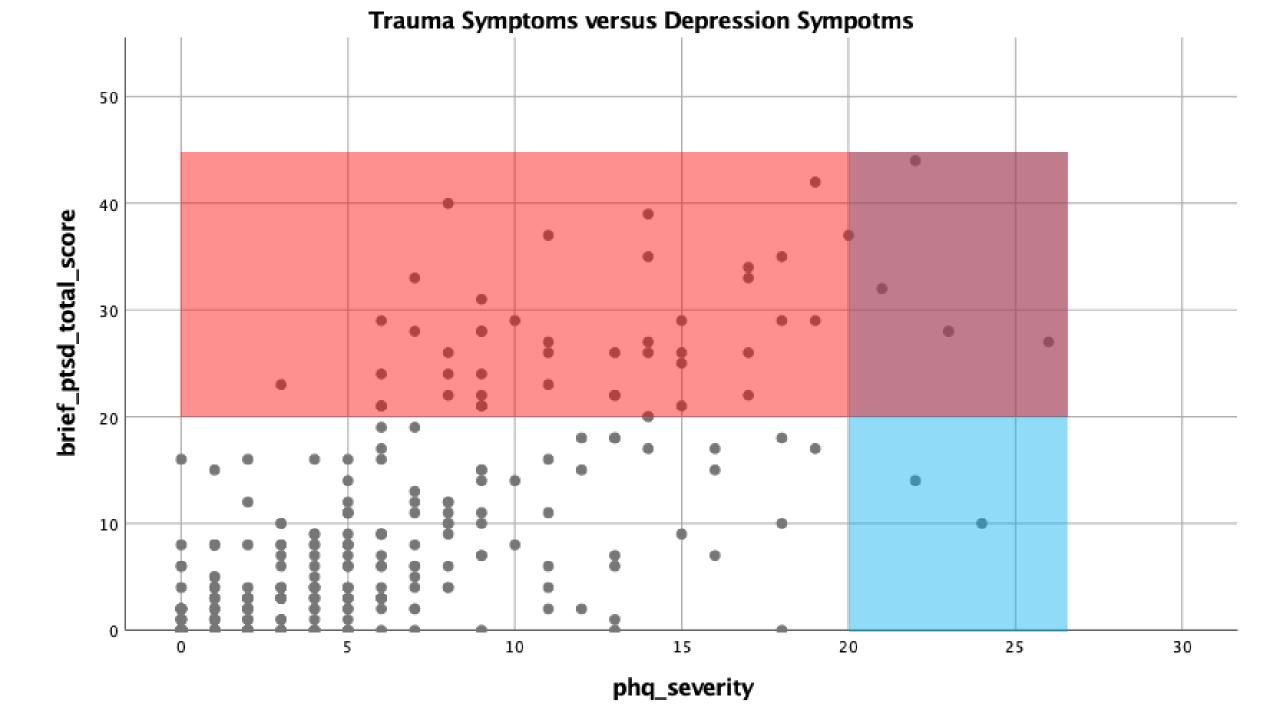
- □ 23.7% with trauma exposure
- 8.1% high trauma sx
- □ 6.9% mod trauma sx

Self Report PHQ-A

- 0% with trauma/adversity
- □ 1.7% high depression sx
- □ 4.5% mod depression sx

4x more likely to pick up high trauma symptoms than high depression symptoms





When Suicide Screening is positive

PHQ-9 #9: Any Positive

 20% with symptoms concerning for severe depression

56% with symptoms concerning for PTSD

PHQ-9 # 9: > half the days

 43% with symptoms concerning for severe depression

84% with symptoms concerning for PTSD

Final Thoughts

- □ Traumatic experiences are the rule, not exception in childhood
- Trauma exposure course and symptom heterogeneity make screening challenging in pediatric settings
- Trauma can mimic commonly observed pediatric mental health conditions (depression, anxiety and ADHD)
- □ Trauma requires a different treatment than other common conditions
- Standardized screening identifies exposures and symptoms and provided data to inform next steps

Discussion & Feedback

• Brooks.Keeshin@hsc.utah.edu



