Children under 4 years
(Scheeringa and Zeenah 2001)

- Preschoolers cant manage stress alone
- Dyadic perspective “relational PTSD” and vicarious effects
- 3 patterns of adult response: unresponsive, overprotective, re-enacting
- Symptom diagnosis needs to be modified

5 Goals of assessment (Lonigan 2003)

- Was there a traumatic event
- Negative reaction to the event
- Clear symptoms that meet criteria B,C,D
- Establishing duration of symptoms
- Establishing impairment criteria

Clinical Assessment

- Requires a face-to-face interview with child skillfully done to avoid re-traumatization
- Let the child tell the whole story of event
- Later, go back with prompts for more details
- Symptoms not volunteered should be asked for
- Any thoughts about the future?
- Play assessment if appropriate-look for traumatic play
- Review: tie trauma and symptoms: ask how they felt about interview: “courage award”
- Learn about event from others if appropriate

Screening questions for PTSD
(adapted from Levinson and Engel 1991)

- What is the worst thing that has ever happened to you?
- Have you ever been in danger or seen someone else in danger?
- Have you seen grown-ups be mean to each other? Yell? Fight?
- Do you ever think about it?

Assessment of PTSD in children

- Information from multiple sources
- Child PTSD-RI: 20 item report measure with algorithm for DSM-IV diagnosis; used as self-administered, one-to-one verbal administration and in group settings
- Other instruments: The Clinician-Administered PTSD scale for Children and Adolescents (CAPS-CA), KSADS, DISC-IV
- Projective psychological testing may be useful

Treatments: Phase Based

- ✓ Safety
- ✓ Skills development
- ✓ Meaning Making
- ✓ Enhancing Resiliency

Treatment modalities

- Trauma-focused CBT-treatment of choice- either individual of

  concurrent child trauma-focused CBT and parent therapy (Cohen 1998) or group models for teens (Cloitre 2002)
- Play therapy: younger children
- IPT
- Parent-child dyadic psychotherapy (Lieberman 1997, infant and toddlers)
- Milieu model ARC (Cook 2003), Sanctuary (Bloom 2003)
- School based approaches (DeRosa 2003)

Treatment of chronic PTSD-overview

- No quick fixes; have an overall treatment plan related to symptoms and situation
- Importance of being and feeling safe:protect from further trauma and own aggressivity, SIB, sexualized behavior
- Severity of sxs change and recur over time with particular events: alternation of numbing and re-experiencing
- Pulsed therapy: series of short term interventions: sometimes close down sxs, sometimes active treatment; importance of non-verbal techniques
- Treat co-existing conditions (e.g. insomnia, ADHD)

Trauma-focused CBT
(Saunders et al, 2001)

- Trauma processing & exposure to traumatic arousal in "tolerable doses"
- Establishing a coherent narrative to promote habituation of conditioned anxiety
- Learning to cope with unpleasant affect & physiologic sensation
- Revising maladaptive cognitive schemas
- Correcting cognitive distortions
- Learning stress management & relaxation skills
- Facilitating cognitive or narrative restructuring

CBT program for chronic PTSD

(Perrin et al 2000)

- Start with education and goal setting
- Goal is to take "the sting out of the malignant memories" (e.g. anxiety reduction when confronted by stimulus, reduction of the power of the intrusive thoughts)
- Coping skill box-recognize triggers and reduce avoidance: learn relaxation techniques, imagery, positive self-talk, thought-stopping

CBT program for chronic PTSD

(Perrin et al 2000)

- Start with relaxed child
- Develop a "thermometer of distress" (TOD)
- Ladder of less-to-more stressful parts of event
- Imaginary or in-vivo exposure and relaxation using TOD and review of feelings during session and stay until TOD is decreased
- When relaxed, discussion of cognitive attributions of the trauma and how future will be changed
- Discussion of coping strategies- thought suppression, distraction

CBT program for chronic PTSD

(Perrin et al 2000)

- Homework assignments of gradual exposure to traumatic reminders
- If appropriate, parents involved
- Guardians must not support avoidance but rewards positive coping
- Termination and relapse prevention: make a videotape
- Booster therapy few months after and at anniversaries

When to consider medication

- 2 central roles: Treats current symptoms and helps them to utilize psychological treatments
- Consider if aggression, SIB, disorganization, insomnia, anxiety or depression
- Since PTSD is relapsing condition, may have to treat different target symptoms over time
- Important to pick the target that is most significant or a “broad -spectrum” intervention

Combined Sertraline + Trauma focused CBT

- Pilot trial to examine potential benefits of adding sertraline vs. placebo to trauma-focused CBT (TF-CBT) in PTSD (Cohen 2007)
- 20 female adolescents & primary caretakers randomly assigned to receive TF-CBT + Sertraline or TF-CBT + placebo for 12 weeks.
- Both groups had significant improvement in PTSD symptoms with no significant differences, except for better ratings with the sertraline group in the C-GAS scores
- Conclusions: There is minimal evidence to suggest any major benefits in PTSD symptoms following addition of sertraline to TF-CBT

Trials of Meds for ASD/PTSD

Medication	Author and year	Type response
Citalopram	Seedat 2002, Seedat 2002	Open 8 wks n=24; 38% reduction in sxs and open 8 wk, comparison with adults with equal efficacy
Risperidone	Horrigan 1999	Open n=18; 13/18 positive
Propanolol	Famularo 1988	Open 5wks; n=11; 8/11positive
Imipramine 100 mg hs vs 25mg/kg chloral hydrate	Robert 1999	Double blind head to-head; n=25 ASD 83% vs. 38% in burn pts
Clozapine	Kant 2004	Chart review serious s/es
Nefazodone 200-600mg	Domon Andersen2000	Case series improvement in aggression, insomnia, hyperarousal
Carbamazepine serum levels 10-11.5ug/ml	Loof 1995	Case series N=28 sexually abused; 22/28 positive
Phenytoin	Douglas Bremner 2004	Open label; significant decrease in PTSD symptoms on CAPS (mean score pre-treatment 65; post-treatment 38

Signs & symptoms of Hyperarousal

- May be most amenable to treatment in youth (Donnelly 2003)
- Irritability, concentration difficulties, hypervigilence, startle, ourtbursts
- Child is on-the alert-- scanning
- Sleep difficulties: initiations, nightmares, awakenings

Clonidine in PTSD in youth

Author/yr	Type of study	Signs/symp	Instrument	Result
Harmon 1996 0.1 mg hs or patch	Open n=7 preschool	Aggression Hyperarousal Insomnia	Clinical	5/7-7/7
Pearsall 2003	Open n=56; 5-24y	Nightmares Flashbacks	Natural	Improved if < 6mos post trauma
Perry 1994 0.05-0.1mg bid	Open n=17	Anxiety, arousal, concentration mood impulsivity	Clinical	

SSRIs

- Borrowing from adult literature, start with "broad spectrum" treatments such as SSRIs (Donnelly and Amaya-Jackson 2002)
- Paroxetine and sertraline have FDA approval in adults
- Antidepressants decrease both avoidant & dissociative behavior
- Two open trials with citalopram (Seedat 2002, Seedat 2002)
- Affects all PTSD symptoms

Question 1

Which of the following statements about PTSD in youth is true?

A) PTSD symptoms only develop in youth over the age of 7 years

B) PTSD can develop by witnessing domestic violence

C) The DSM-IV criteria apply equally well to adults and toddlers

D) PTSD symptoms relent in youth and rarely recur

Question 2

Which of the following treatments have been shown to be effective in the treatment of PTSD in youth?

A) Trauma-focused CBT

B) Hypnosis

C) Valproate

D) Buspirone

Question 3

Which of the following statements is true about play therapy in PTSD in children

A) Children with PTSD have normal play

B) Children with PTSD have more imaginative play than those without PTSD

C) Children with PTSD have routinized anhedonic play that symbolized the trauma

D) Children with PTSD never symbolize their trauma in play

Question 4

Which of the following medications may be useful to treat symptoms of PTSD in children?

A) Clonidine, hypnotics, SSRIs

B) Clonidine, valproate, buspirone

C) Hypnotics, carbamazepine, SSRIs

D) SSRIs, clonidine, carbamazepine

Question 5

Which criteria of PTSD is likely to be absent from children?

A) Re-experiencing the trauma

B) Persistent arousal symptoms

C) Persistent avoidance

D) Nightmares

E) Startle reaction

Answers

- 1-B
- 2-A
- 3-C
- 4-A
- 5-C