The efficacy of trauma-focused cognitive behavioral therapy (TF-CBT) has been shown in several randomized controlled trials. However, few trials have been conducted in community clinics, few have used therapy as usual (TAU) as a comparison group, and none have been conducted outside of the United States. The objective of this study was to evaluate the effectiveness of TF-CBT in regular community settings compared with TAU. One hundred fifty-six traumatized youth (M age = 15.1 years, range = 10–18; 79.5% girls) were randomly assigned to TF-CBT or TAU. Intent-to-treat analysis using mixed effects models showed that youth receiving TF-CBT reported significantly lower levels of posttraumatic stress symptoms (est. = 5.78, d = 0.51), 95% CI [2.32, 9.23]; depression (est. = 7.00, d = 0.54), 95% CI [2.04, 11.96]; and general mental health symptoms (est. = 2.54, d = 0.45), 95% CI [0.50, 4.58], compared with youth in the TAU group. Youth assigned to TF-CBT showed significantly greater improvements in functional impairment (est. = −1.05, d = −0.55), 95% CI [−1.67, −0.42]. Although the same trend was found for anxiety reduction, this difference was not statistically significant (est. = 4.34, d = 0.30), 95% CI [−1.50, 10.19]. Significantly fewer youths in the TF-CBT condition were diagnosed with posttraumatic stress disorder compared to youths in the TAU condition, χ²(1, N = 116) = 4.61, p = .031, Phi = .20. Findings indicate that TF-CBT is effective in treating traumatized youth in community mental health clinics and that the program may also be successfully implemented in countries outside the United States.
A significant number of children and youth throughout the world experience traumatizing events (Copeland, Keeler, Angold, & Costello, 2007; Norris, Friedman, & Watson, 2002); if left untreated, trauma exposure may result in a variety of mental health problems (Dube, Felitti, Dong, Giles, & Anda, 2003; Finkelhor, Ormrod, & Turner, 2009; Ford, Ehleit, Connor, & Frueh, 2010). Studies have identified an association between traumatization and increases in anxiety and mood disorders (Famularo, Fenton, Kinscherff, & Augustyn, 1996) and severe behavioral problems (Saigh, Yasyk, Oberfield, Halamanakis, & McHugh, 2002), but post-traumatic stress symptoms (PTSS) are the most commonly reported symptoms of psychological distress. Clinically significant PTSS levels have been reported in the aftermath of a wide variety of traumatic experiences, such as violence (Kilpatrick et al., 2003), war trauma (Ajdukovic, 1998), abuse (Ackerman, Newton, McPherson, Jones, & Dykman, 1998), chronic illness (Connolly, McClowry, Hayman, Mahony, & Artman, 2004), burns (Saxe et al., 2005), traffic accidents (Meiser-Stedman, Smith, Glucksman, Yule, & Dalgleish, 2008), child sexual abuse (Finkelhor, 1994), and natural disasters (Jensen, Dyb, & Nygaard, 2009; La Greca, Silverman, Vernberg, & Prinstein, 1996).

Given the impairing effects of severe PTSS and other mental health problems that children and adolescents may develop in the aftermath of a traumatic event, effective treatments are needed. A review examining the evidence on psychosocial treatments for children and adolescents exposed to traumatic events concluded that trauma-focused cognitive behavioral therapy (TF-CBT) met the well-established criteria for evidence-based practices (Silverman et al., 2008). TF-CBT has been tested in several randomized controlled trials, which have all demonstrated the efficacy of the program in reducing PTSS and other emotional problems in children (Cohen & Mannarino, 2008; Silverman et al., 2008). (See Table 1).

Follow-up studies have also shown that the positive treatment gains are maintained (Cohen, Mannarino, & Knudsen, 2005; Deblinger, Mannarino, Cohen, & Steer, 2006; Deblinger, Steer, & Lippmann, 1999). The program was originally developed and investigated in children exposed to sexual abuse (Cohen, Deblinger, Mannarino, & Steer, 2004; Cohen & Mannarino, 1996, 1997, 1998; Deblinger, Lippman, & Steer, 1996; King et al., 2000). However, one recent study documented the use of TF-CBT in children experiencing domestic violence (Cohen, Mannarino, & Iyengar, 2011), and two pilot studies have demonstrated the effective use of TF-CBT in treating childhood traumatic grief (Cohen, Mannarino, & Knudsen, 2004; Cohen, Mannarino, & Staron, 2006). The use of TF-CBT has

| Study                          | Type Trauma            | N  | Age | % Girls | Study Context (TF-CBT) | Comparison Group(s)                      |
|-------------------------------|------------------------|----|-----|---------|------------------------|------------------------------------------|
| Cohen & Mannarino (1996)"     | Sexual abuse           | 67 | 3–6 | 58      | Trauma clinic          | Nondirective supportive therapy          |
| Deblinger, Lippman, & Steer (1996)" | Sexual abuse       | 90 | 7–13| 83      | Trauma clinic          | Parent only                              |
| Cohen & Mannarino (1998)"     | Sexual abuse           | 49 | 7–14| 69      | Trauma clinic          | Child only community control             |
| King et al. (2000)            | Sexual abuse           | 36 | 5–17| 69      | Trauma clinic          | Nondirective supportive therapy          |
| Deblinger, Stauffer, & Steer (2001)" | Sexual abuse     | 44 | 2–8 | 61      | Trauma clinic          | Child alone; Family CBT; waitlist         |
| Cohen, Deblinger, Mannarino, & Steer (2004)" | Sexual abuse | 229 | 8–14| 79      | Trauma clinics         | Child-centered therapy                    |
| Cohen, Mannarino, & Knudsen (2005)" | Sexual abuse | 82 | 8–15| 68      | Trauma clinic          | Nondirective therapy                     |
| Cohen, Mannarino, Perel, & Staron (2007)" | Sexual abuse | 24 | 10–17| 100     | Trauma clinic          | Setraline; Placebo                       |
| Jaycox et al. (2010)          | Heterogeneous types of trauma | 118 | 9–13| 56      | Community clinic & schools | CBT in school (CBITS)                     |
| Cohen, Mannarino, & Iyengar (2011)" | Domestic violence | 124 | 7–14| 55      | Community IPV center   | Child-centered therapy (without trauma narrative & 8 sessions) |
| Deblinger, Mannarino, Cohen, Runyon & Steer (2011)" | Sexual abuse | 210 | 4–11| 61      | Trauma clinics         | Dismantling study (without trauma narrative & 8 sessions) |
| Scheeringa, Weems, Cohen, Amaya-Jackson, & Guthrie (2011)" | Heterogeneous types of trauma | 64 | 3–6 | 34      | Trauma clinic          | Waitlist                                 |

Note. TF-CBT = trauma-focused cognitive behavioral therapy.
"Study by treatment developers.
also been explored with children exposed to catastrophes, such as the September 11 terrorist attacks (Hoagwood, Radigan, Rodriguez, Levitt, & Foster, 2006) and hurricane Katrina (Jaycox et al., 2010); these studies all yielded promising results. Furthermore, a group-based TF-CBT protocol for sexually abused children and their mothers has been tested and showed positive effects (Deblinger, Stauffer, & Steer, 2001). The next step in advancing this research base is to examine whether TF-CBT is also applicable outside the United States, where the program was developed. In addition, because few of the available studies were conducted in community clinics, few have included patients with multiple types of traumatic experiences, and only one has compared TF-CBT with usual care; more studies are needed to document the benefits of TF-CBT compared to usual clinical care in community clinics. The results obtained in specialized clinics may not be transferrable to community clinics for several reasons. First, studies have found that children and adolescents who are referred to community clinics often have higher levels of co-occurring problems and less family support than samples from university-based research clinics (Ehrenreich-May et al., 2011; Schoenwald & Hoagwood, 2001; Shirk, Karver, & Brown, 2011; Southham-Gerow, Weisz, & Kendall, 2003). In addition, therapists’ working conditions often differ. For example, therapists in regular clinics treat a wide variety of disorders, and workloads tend to differ (Kazdin, 2002; Southam-Gerow, Rodriguez, Chorpita, & Daleiden, 2012; Weisz & Addis, 2006; Weisz & Gray, 2008; Weisz et al., 2009).

In this study, we tested whether TF-CBT was superior to therapy as usual (TAU) in eight community clinics for children and adolescents with trauma-related symptoms in Norway. Because youth referred to community clinics often present with a variety of symptom clusters, several different disorders were assessed, including PTSS, depression, anxiety, and general mental health, and clinical evaluations of posttraumatic stress disorder (PTSD) were performed. Based on studies that have shown that receiving any type of treatment leads to better outcomes than no treatment (Wampold et al., 1997), we predicted that youth in both treatment conditions would improve. However, based on previous TF-CBT studies, we predicted that participants in the TF-CBT condition would report significantly greater improvements in all the aforementioned symptom levels compared to participants in the TAU group posttreatment. We also predicted that the number of youth diagnosed with PTSD would be significantly lower in the TF-CBT group compared to the TAU group posttreatment. Finally, we hypothesized that the TF-CBT group would report significantly greater improvements in daily functioning compared with the TAU group.

METHOD

Procedure

The study was approved by the Regional Committee for Medical and Health Research Ethics. In addition, written, active consent to participate was provided by both the children and their parents. The target sample was youth between the ages of 10 and 18 years who had been referred to one of eight community mental health outpatient clinics in Norway between April 2008 and February 2011. Normal referral procedures were followed, as all of the children were referred to treatment by their primary physician or Child Welfare Services. To be eligible for the study, the youth had to have experienced at least one traumatizing event and suffered from significant PTS reactions. The exclusion criteria were acute psychosis, suicidal behavior, and a need for an interpreter.

To assess trauma experiences, we developed a checklist based on the items described in the Traumatic Events Screening Inventory for Children (Ribbe, 1996). This checklist included the following experiences: (a) severe accident, (b) natural disaster, (c) sudden death or severe illness of a person close to the participant, (d) extremely painful or frightening medical procedures, (e) violence or threats of violence outside the family, (f) robbery or assault, (g) kidnapping, (h) witnessing violence outside the family, (i) witnessing violence within the family, (j) physical abuse within the family, (k) sexual abuse outside the family, (l) sexual abuse within the family, and (m) other frightening or overwhelming experiences. If the parent or youth reported exposure to one or more of these events, the youth was assessed for PTSS using the Child PTSD Symptom Scale (CPSS; Foa, Johnson, Feeny, & Treadwell, 2001). Those with scores of 15 or above on the CPSS and at least one symptom in each of the three PTSD symptom criteria (reexperiencing, avoidance, and hyperarousal) were invited to participate in the study. A total of 454 children and adolescents were screened for eligibility using the CPSS. Out of these, 200 children scored above the established cutoff of 15, and 156 agreed to participate in the study (Figure 1).

If the inclusion criteria were met and consent was provided, the youth were randomly assigned to receive either TF-CBT or TAU. At each clinic, a computer-generated, randomization procedure allocated participants into random blocks of four or six in random order with an equal probability of four or six with half (i.e., two or three) assigned to TF-CBT and half to the control group. This procedure was used to enhance the balance between TF-CBT and TAU and also to protect the blind for raters. The randomization was not stratified by any variables. The youth were then further
assessed with a battery of instruments measuring mental health. The assessments were computer assisted and conducted by a clinician who was not employed at the clinic and was blinded to the treatment conditions. Symptoms were reassessed midtreatment (after the sixth session) and posttreatment (after 15 sessions). All measures were administered in the same order for all participants. The youths received a small gift card (e.g., a movie pass) after completing the posttreatment assessment, but no other economic compensation was given.

Participants

A detailed description of the sample is presented in Tables 2 and 3. The youths reported being exposed to an average of 3.6 different types of traumas (SD = 1.8, range = 1–10). In total, the children reported the following traumatizing events: 60.9% (n = 95) sudden death or severe illness of a person close to them, 59% (n = 92) violence or threats of violence outside the family context, 45.5% (n = 71) physical abuse within the family, 42.9% (n = 67) witnessing violence within the family, 27.6% (n = 43) witnessing violence outside the family, 27.6% (n = 43) sexual abuse outside the family, 20.5% (n = 32) severe accident, 16% (n = 25) extremely painful or frightening medical procedures, 10.9% (n = 17) robbery or assault, 7.7% (n = 12) sexual abuse within the family, 5.8% (n = 9) natural disaster, 5.1% (n = 8) kidnapping, and 30.8% (n = 48) other frightening or overwhelming experiences.

### TABLE 2

**Description of Sample**

| Demographics of the Children (N = 156) | n (%) |
|----------------------------------------|-------|
| Gender (N = 156)                       |       |
| Girls                                  | 124 (79.5) |
| Boys                                   | 32 (20.5)  |
| Age (N = 156)                          |       |
| Range                                  | 10–18 |
| Mean                                   | M = 15.1 (SD = 2.2) |
| Ethnicity (N = 156)                    |       |
| Norwegian                              | 115 (73.7) |
| Asian                                  | 17 (10.9)  |
| One parent Norwegian                   | 13 (8.3)   |
| Western European countries              | 2 (1.3)    |
| Eastern European countries              | 2 (1.3)    |
| African countries                       | 3 (1.9)    |
| South/Central American countries       | 2 (1.3)    |
| Nordic countries                        | 1 (0.6)    |
| Other                                   | 1 (0.6)    |
| Living situation (N = 156)              |       |
| Live together with both parents         | 35 (22.4) |
| Live same amount with the mother and father | 4 (2.6) |
| Live mostly or only with the mother     | 81 (51.9) |
| Live mostly or only with the father     | 14 (9)    |
| Foster care                             | 12 (7.7) |
| Other (alone, institution, with boyfriend or girlfriend) | 10 (6.4) |
| Household incomea (n = 128)             |       |
| < NK 200,000                            | 20 (15.6) |
| < USD 35,000                            | 49 (38.3) |
| [NK 200,000, NK 500,000), [USD 35,000, USD 87,000) | 38 (29.7) |
| [NK 500,000, 1,000,000 NK) [USD 87,000, USD 174,000) | 9 (7.0) |
| ≥ NK 1,000,000 NK [≥ USD 174,000)       | 12 (9.4) |
| Do not know                             |         |
| Traumatic experiences—Total (N = 156)   |       |
| Accident                               | 32 (20.5) |
| Natural disaster                       | 9 (5.8)   |
| Sudden death/injury of a close person   | 95 (60.9) |
| Hospitalization                        | 25 (16)   |
| Violence outside the family             | 92 (59)   |
| Robbed                                 | 17 (10.9) |
| Kidnapped                              | 8 (5.1)   |
| Witnessed physical abuse outside the family | 43 (27.6) |
| Witnessed physical abuse inside the family | 67 (42.9) |
| Exposed to physical abuse inside the family | 71 (45.5) |
| Sexual abuse outside the family         | 43 (27.6) |
| Sexual abuse inside the family          | 12 (7.7)  |
| Other                                   | 48 (30.8) |
| Total number of trauma experiences (N = 156) |       |
| Range                                   | 1–10 |
| Mean                                    | M = 3.6 (SD = 1.8) |

*aMean household income for 2010 was $75,000 USD.*
TABLE 3
Description of Participating Parent

| Demographics of the Parents (n = 128) | n (%) |
|--------------------------------------|-------|
| Person who completed the questionnaire (n = 128) |  |
| Mother | 92 (71.9) |
| Father | 22 (17.2) |
| Foster parents | 11 (8.6) |
| Other | 3 (2.3) |
| Caregiver’s employment situationa (n = 119) |  |
| Working full time | 64 (53.8) |
| Working part time | 18 (15.1) |
| Job seeker | 4 (3.4) |
| Student | 4 (3.4) |
| Welfare recipient/Other | 29 (24.4) |
| Caregiver’s educationb (n = 120) |  |
| Completed junior high school | 17 (14.2) |
| Completed high school | 44 (36.7) |
| Completed vocational school | 15 (12.5) |
| ≤4 years of college/university | 37 (30.8) |
| >4 years of college/university | 7 (5.8) |

aIn 2012, 68% of the population was working full time.
bIn 2010, 30% of the population had completed high school as their highest level of education.

Therapists

The therapists were recruited from the participating clinics and delivered the treatment at the clinic where they were employed. The TF-CBT therapists (n = 26) were selected by the clinic leader and volunteered to receive training in TF-CBT and provide therapy to the participants who were randomly selected to receive TF-CBT. The TAU therapists (n = 45) received the case through the referral process, and they provided their usual treatment. The therapist group was predominantly female (84.5%), which reflects the gender distribution of therapists in child clinics in Norway. In the TF-CBT condition, each therapist treated an average of 3.0 participants (SD = 1.4, range = 1–6). The group consisted of 80.8% (n = 21) psychologists, 7.7% (n = 2) psychiatrists, 7.7% (n = 2) educational therapists, and 3.8% (n = 1) social workers. When asked to specify their theoretical orientation, 66.7% (n = 16) described their orientation as cognitive-behavioral, 23.1% (n = 6) as psychodynamic, 7.7% (n = 2) as systemic/family therapy, and 7.7% (n = 2) did not report a theoretical orientation. On average, the TF-CBT therapists had 10.2 years of experience (SD = 6.4, range = 3–28). In the TAU condition, each therapist treated an average of 1.7 participants (SD = 1.3, range = 1–9). This group consisted of 51.1% (n = 23) psychologists, 26.6% (n = 12) social workers, 17.8% (n = 8) educational therapists, and 4.4% (n = 2) psychiatrists. In this group, 24.4% (n = 11) described their theoretical orientation as cognitive-behavioral, 40.0% (n = 18) as psychodynamic, and 17.8% (n = 8) family/systemic. The remaining 17.8% (n = 8) did not report their orientation. On average, the therapists had 12.5 years of experience (SD = 10.3, range = 1–40). The two groups were comparable in terms of the therapists’ gender (χ² = 0.22, p = .639) and years of experience, t(64) = −1.0, p = .320. However, there were significant differences in the therapists’ educational backgrounds (χ² = 12.9, p = .024) and theoretical orientations (χ² = 8.24, p = .041). In addition, the TF-CBT therapists performed significantly more study treatments compared to TAU therapists, t(69) = 4.0, p < .001.

Interventions

**TF-CBT**

TF-CBT is a short-term, component-based intervention consisting of 12 to 15 sessions. The program integrates cognitive, behavioral, interpersonal, and family therapy principles as well as trauma interventions. Each component is offered to the child and parent in both parallel sessions and co-joint sessions. The components are as follows: psycho-education, teaching relaxation and affective modulation skills, learning cognitive coping skills, working through the trauma narrative, cognitive processing, in vivo mastery of trauma reminders, enhancing safety, and future development. In addition, the parent receives interventions aimed at improving parenting skills (see Cohen, Mannarino, & Deblinger, 2006). The TF-CBT therapists were trained by the developers of the treatment and other approved TF-CBT trainers. All therapists received between 4 and 6 days of initial training. TF-CBT therapists were encouraged to read the treatment manual (Cohen, Mannarino, & Deblinger, 2006) and complete a web-based learning course for trauma-focused cognitive behavioral therapy (http://www.musc.edu/tfcbt). Treatment adherence was supported by initial session-by-session supervision provided by trained TF-CBT therapists based on reviews of audio-recorded sessions. As the therapist became more familiar with the program, supervision was reduced to biweekly sessions.

**Therapy as Usual**

In the TAU condition, therapists were asked to provide the treatment they believed would be effective for the particular case. All participants received individual treatment (no group treatment), but in 55.3% (n = 42) of the cases, parents were also involved in the therapy process. The therapists reported receiving an average of 1.4 hr of supervision (SD = 5.3, range = 0–40) per case.

**Treatment Adherence**

All therapy sessions were audio recorded. Treatment fidelity was examined by trained TF-CBT therapists. In
the TF-CBT group, all sessions were coded using the TF-CBT Fidelity Checklist (Deblinger, Cohen, Mannarino, Murray, & Epstein, 2008). The checklist contains 11 items (rated present vs. absent) that follow the treatment components. The core components that had to be completed in order for a therapy to be defined as TF-CBT were as follows: psychoeducation, relaxation skills, affect regulation, instruction in the cognitive triangle, working through the trauma narrative, working with dysfunctional thoughts, and the parenting component. Based on these criteria, five cases failed to reach an acceptable level of fidelity.

In the therapy as usual group, at least five sessions were coded in each case (the first, second, third, sixth, and ninth sessions). These sessions were selected to provide information regarding whether the core aspects of TF-CBT were provided. Because the primary aim was to ensure that the therapists were not providing any of the core aspects of TF-CBT, the TF-CBT Fidelity Checklist was used. In cases in which elements of the core components were provided, additional sessions were investigated to rule out treatment overlap; this analysis resulted in 392 coded sessions. In the TAU condition, none of the cases met the adherence criteria for TF-CBT, although some TAU cases may have used certain elements similar to TF-CBT, such as psychoeducation.

Measurements

Youth exposed to traumatizing events and referred to community child mental health clinics often have multiple problems, including PTSS, depressive symptoms, other anxiety problems, and externalizing problems. Therefore, we assessed a range of possible mental health problems. The primary outcome measure was PTSS. These symptoms were measured using the CPSS and the Clinician-Administered PTSD Scale for Children and Adolescents (CAPS-CA). Secondary outcome measures included the Mood and Feelings Questionnaire (MFQ), the Screen for Child Anxiety-Related Disorders (SCARED), and the Strengths and Difficulties Questionnaire (SDQ).

**CPSS**

The CPSS is a self-report questionnaire developed for children and youth between 10 and 18 years of age that examines the PTSS described in the Diagnostic and Statistical Manual of Mental Disorders (4th ed. [DSM-IV]; American Psychiatric Association, 1994; criterion B, reexperience; C, avoidance; and D, hyperarousal; Foa et al., 2001). The CPSS consists of 17 items. The child rated the symptom frequency during the last 2 weeks using a 4-point scale ranging from 0 (not at all) to 3 (5 or more times a week almost always). In the screening sample of 454 participants, the three subscales showed internal consistencies of $\alpha = .84$ for the reexperience factor, $\alpha = .80$ for the avoidance factor, $\alpha = .75$ for the hyperarousal factor, and $\alpha = .91$ for the total scale. The PTSS were assessed based on the children’s self-reported “worst” trauma.

The CPSS contains an additional scale that measures the influence of PTSS on daily functioning (fCPSS). The child answered yes or no depending on whether the symptoms affect daily functioning in six areas: friendship, family, school, hobbies and activities, household duties, and general life satisfaction. A 2-point scale was used: 1 indicated an impact on areas of daily functioning, and 2 indicated no impact on areas of functioning. The Norwegian translation of the scale was approved by the developers. The instrument was completed within 10 to 20 min.

**The CAPS-CA**

The CAPS-CA is a structured clinical interview that has been adapted to be suitable for children and adolescents younger than 15 (Nader et al., 1996; Nader et al., 2004). The CAPS-CA measures trauma exposure and the frequency and intensity of the 17 DSM-IV-defined symptoms of PTSD. In addition, the impact of symptoms in terms of overall distress and functional impairment is assessed, as well as associated features (survivor guilt, shame, and dissociation). In this study, only the diagnostic PTSS were used. Items were scored on 5-point frequency scales from 0 (none of the time) to 4 (most of the time) and 5-point intensity rating scales from 0 (not a problem) to 4 (a big problem, I have to stop what I am doing) assessing the past month. Items were scored based on both the youth’s answers and clinical judgment during the interview. The total scale showed satisfactory internal consistency ($\alpha = .90$), as did the DSM-IV defined tripartite model (reexperience: $\alpha = .87$, avoidance: $\alpha = .77$, hyperarousal: $\alpha = .79$).

The DSM-IV algorithm was used to determine a PTSD diagnosis. At least one symptom of the B criterion, three of the C criterion, and two of the D criterion were needed. A frequency score of 1 and an intensity score of 2 were required for a particular symptom to meet the criterion (Weathers, Ruscio, & Keane, 1999).

**MFQ**

The MFQ is a self-report questionnaire designed to assess depressive symptoms in children and youth between 8 and 18 years of age (Angold, Costello, Messer, & Pickles, 1995). The questionnaire consists of 34 items measuring both the full range of DSM-IV diagnostic criteria for depressive disorders and additional items reflecting common affective, cognitive, and somatic features of childhood depression. The child rated the problem frequency during the previous 2 weeks using a 3-point scale: 0 (not true), 1 (sometimes
true), and 2 (true). A score of 27 or more was considered to be within clinical range. The instrument showed good internal consistency in this sample (α = .91).

**SCARED**

The SCARED is a self-report questionnaire developed by Birmaher et al. (1999) to measure anxiety symptoms in children and youth aged 8 to 18 years. The instrument consists of 41 items that cover five specific anxiety disorders: panic disorder or significant somatic symptoms, generalized anxiety disorder (GAD), separation anxiety disorder, social anxiety disorder, and school avoidance. The child or youth rated each item with prosocial behavior (e.g., “kind to younger children”). A total score of 25 or more was considered to be within the clinical range for anxiety. In this sample, the instrument showed satisfactory internal consistency in terms of the total scale (α = .93) and the subscales for panic disorder/significant somatic symptoms (α = .90), generalized anxiety disorder (α = .83), separation anxiety disorder (α = .78), social anxiety disorder (α = .85), and school avoidance (α = .81).

**SDQ**

The SDQ is a self-report questionnaire that covers general mental health problems in children and youth (Goodman, 2001). The SDQ contains 25 items that cover five areas of clinical interest: hyperactivity/inattention (e.g., “restless, overactive”), emotional symptoms (e.g., “has many worries”), conduct problems (e.g., “often has temper tantrums”), peer relation problems (e.g., “picked on or bullied by other children”), and prosocial behavior (e.g., “kind to younger children”). The child rated each item with not true, somewhat true, and certainly true based on their experiences during the previous 6 months (0 to 2 for negatively worded items and 2 to 0 for positively worded items). The general difficulties total score is based on four problem-oriented subscores and a Norwegian norm-sample; a total score of 18 or more was within the 90th percentile (Rønning, Handegaard, Sourander, & Mørch, 2004). In this sample, the total scale showed a satisfactory internal consistency of α = .73.

**Data Analyses**

A power analysis was performed prior to recruitment. Using an estimated difference between intervention and control groups of approximately 0.5 SD and requiring a power of 0.80 and α = .05, this analysis showed that 62 participants were required in each treatment group. Descriptive statistics were used to investigate the characteristics of the sample. A mixed effects model was performed on each of the outcome measures. Mixed effects models account for the nested nature of the data, and they can handle missing data under the missing at random assumption. In addition, mixed effects models have the advantage of estimating measures of random variation both between and within participants (Pinheiro & Bates, 2000). Given the longitudinal design of this study, the data set was nested by participants. Outcomes were analyzed with various approaches. First, intention-to-treat (ITT) analyses were conducted; data from all recruited participants (including the dropouts) were analyzed in the condition into which they were originally randomized. Next, only the completed cases (defined as completing at least six sessions) were included. The cutoff of six sessions was chosen because this cutoff included participants who had completed at least half of the program and could thus be assumed to have gained some effect from the treatment. Finally, a per-protocol (PP) approach was followed, that is, the data were analyzed with regard to the type of treatment the participants actually received. Participants who were randomized to the TF-CBT condition but did not receive allocated treatment were first treated as cases in the TAU-condition (PP1) and then removed from the analyses (PP2). To investigate the association between the diagnostic status of PTSD and therapy condition, an exact chi-square test for independence was conducted. Effect sizes were calculated using Cohen’s $d$ to show the strength and magnitude of changes within each treatment group and the difference between the interventions. To determine whether changes in symptom levels were clinically significant, we first determine the proportion of participants who met the diagnostic criteria for PTSD posttreatment. Second, we calculated how many participants moved from a dysfunctional to functional level posttreatment, where functional level was defined as being below the clinical cutoff in scales for which norms were available (i.e., MFQ, SCARED, and SDQ). Because there are no available data from normal samples on the CPSS, a clinically significant change was defined as 2 SD below the mean T1 score (Wise, 2004). The differences between the two groups were investigated with chi-square statistics. We performed Holm correction in the ITT analyses (five tests) and the completer analyses (five tests) as described in Aickin and Gensler (1996). Briefly, the $p$ values were ordered from lowest to highest. With adjustment within a group of $k$ tests, the $i^{th}$ ($i = 1, \ldots, k$) lowest $p$ value is multiplied with $k-i+1$, starting with the lowest one. If an adjusted $p$ value is made ≥1 by this procedure it is set to 1, and so are all the following $p$ values.

All analyses were conducted using the statistics program R (Hornik, 2012) and SPSS, version 17.
RESULTS

Analyses

Attrition and Baseline Comparisons

Of the 156 children and youth who completed the intake assessments, 122 (77.6%) participated in the post-treatment assessment (T3). The attrition group consisted of 23 youth who dropped out of treatment prior to Session 6 (11 in TF-CBT vs. 12 in TAU) and 11 participants who continued treatment but did not complete the assessments (nine in TF-CBT vs. two in TAU). The attrition rate was not significantly different between the two therapy groups, \( \chi^2(1) = 1.17, p = .281 \), Phi = –.09. There were no significant differences between the retention group and the attrition group with regard to basic characteristics, such as gender, parent background information, or primary and secondary outcome variables. However, the attrition group was significantly older than the retention group, \( t(54.67) = 2.11, p = .040 \), and the attrition group reported being exposed to significantly higher numbers of different traumatic events, \( t(154) = -3.07, p = .003 \).

There were no significant differences between participants in the two treatment conditions at baseline in terms of age, \( t(154) = -0.15, p = .883 \); gender, \( \chi^2(1) = 2.27, p = .132 \); ethnicity, \( \chi^2(8) = 6.92, p = .545 \); living/care situation, \( \chi^2(5) = 6.72, p = .243 \); total number of traumas experienced, \( t(154) = 0.53, p = .595 \); household income, \( \chi^2(4) = 5.46, p = .244 \); or the parent’s level of education, \( \chi^2(4) = 3.43, p = .488 \). Furthermore, the groups had comparable T1 scores on the CPSS, \( t(154) = -0.05, p = .962 \); MFQ, \( t(154) = 0.05, p = .958 \); SCARED, \( t(149) = .30, p = .958 \); and SDQ, \( t(152) = -0.20, p = .840 \).

Treatment Outcomes

The means and standard deviations are presented by treatment condition and time, treatment effects, interaction effects, and effect sizes (\( d \)) in Table 4.

| Outcome | Therapy as Usual | TF-CBT |
|---------|-----------------|--------|
|         | Time 1 | Time 2 | Time 3 | \( d \) | Time 1 | Time 2 | Time 3 | \( d \) |
| CPSS    | M (SD) | M (SD) | M (SD) |        | M (SD) | M (SD) | M (SD) |        |
| n       | 78     | 77     | 79     | 1.27   | 79     | 79     | 79     | 1.92   |
| fCPSS   | 7.99 (1.40) | 8.47 (1.89) | 9.22 (2.09) | -0.88 | 8.03 (1.84) | 8.90 (1.82) | 10.33 (1.99) | -1.25 |
| CAPS    | 60.65 (21.20) | – | 42.05 (26.58) | 0.88 | 60.19 (19.90) | – | 30.55 (25.30) | 1.49 |
| MFQ     | 35.32 (13.32) | 27.82 (15.87) | 22.66 (16.24) | 0.95 | 35.43 (11.77) | 24.73 (14.69) | 14.40 (13.67) | 1.79 |
| SCARED  | 33.32 (16.70) | 30.38 (17.84) | 24.82 (17.15) | 0.51 | 34.12 (15.97) | 28.56 (16.56) | 19.67 (17.27) | 0.90 |
| SDQ     | 19.09 (5.47) | – | 14.54 (6.12) | 0.83 | 18.92 (4.90) | – | 11.95 (6.51) | 1.42 |

\[ \chi_{TAU\ T1} - \chi_{TAU\ T3} \]
\[ SD_{TAU\ T1} \]

\[ \frac{\chi_{TF-CBT\ T1} - \chi_{TF-CBT\ T3}}{SD_{TF-CBT\ T1}} \]

\[ \frac{\chi_{TAU\ T3} - \chi_{TF-CBT\ T3}}{Spooled} \]

Note: CPSS = Child PTSD Symptom Scale; fCPSS = PTSD symptoms influence on daily functioning; CAPS = Clinician-Administered PTSD Scale; MFQ = Mood and Feelings Questionnaire; SCARED = Screen for Child Anxiety-Related Disorders; SDQ = Strengths and Difficulties Questionnaire.

\( d \) = calculated based on differences between T1 and T3 in the TAU condition:

\( \chi_{TAU\ T1} - \chi_{TAU\ T3} \)

\[ SD_{TAU\ T1} \]

\( d \) = calculated based on differences between T1 and T3 in the TF-CBT condition:

\( \chi_{TF-CBT\ T1} - \chi_{TF-CBT\ T3} \)

\[ SD_{TF-CBT\ T1} \]

\( d \) = calculated based on differences between the two conditions at T3:

\[ \frac{\chi_{TAU\ T3} - \chi_{TF-CBT\ T3}}{Spooled} \]
ITT Analyses

Primary outcome measure

Child PTSS. There was a main effect of treatment condition on child PTSS (measured by the CPSS), in which participants in the TF-CBT group scored significantly lower ($M = 11.34, SD = 10.52$) at T3 compared with participants in the comparison group ($M = 16.87, SD = 11.49$); $d = 0.51$, $t(154) = 3.30, p = .001$ with Holm adjustment: $p = .006$; there was also a significant Time $\times$ Group interaction effect, $F(2) = 5.01, p = .007$, with Holm adjustment: $p = .037$. In addition, there was a main effect of treatment in both groups, indicating that participants showed significant reductions in PTSS between the pre- and posttherapy assessments: TF-CBT, $t(241) = -12.01, p < .001$; TAU: $t(241) = -7.80, p < .001$. Measurement of the impact of PTSS on daily functioning (as measured by the fCPSS subscale) revealed a main effect of treatment condition on functional impairment. The results showed that trauma influenced daily functioning significantly less (indicated by higher scores) in the TF-CBT group ($M = 6.51, SD = 1.99$) than in the TAU group ($M = 9.22, SD = 2.09$) at the end of therapy ($d = -0.55$, $t(154) = -3.32, p = .001$, with Holm adjustment: $p = .006$. In addition, in terms of functional impairment, there was a main effect of treatment on time in both groups.

Secondary outcome measures

Symptoms of depression, anxiety, and general mental health problems. There was a main effect of treatment condition on children’s depressive symptoms. Participants in the TF-CBT condition ($M = 14.40, SD = 13.67$) scored significantly lower than those in the TAU condition ($M = 22.67, SD = 16.24$) on depressive symptoms at T3 ($d = 0.54$, $t(154) = 2.79, p = .006$, with Holm adjustment: $p = .018$. Furthermore, there was a main effect of treatment condition on children’s general mental health problems. Participants in TF-CBT group had significantly lower scores ($M = 11.95, SD = 6.51$) than the youths in the TAU group ($M = 14.54, SD = 6.12$) at the end of therapy ($d = 0.45$, $t(152) = 2.46, p = .015$, with Holm adjustment: $p = .030$. There was no main effect of treatment condition on child anxiety symptoms ($d = 0.30$, $t(150) = 1.47, p = .144$, with Holm adjustment: $p = .144$. To further investigate this finding, we analyzed the SCARED subscales separately and found that only generalized anxiety disorder showed a main effect of treatment condition, $t(150) = 2.10, p = .037$. For a more detailed description of these results, see Tables 4 and 5.

Completer Analyses

PTSS. The analysis of the completer cases yielded similar results as the ITT analyses. There was a main effect of treatment condition on children’s PTSS (as measured by CPSS); youth in the TF-CBT group scored significantly lower on PTSS at T3 than participants in the comparison group, $t(120) = 2.96, p = .004$ with Holm adjustment: $p = .011$; and there was a significant Time $\times$ Group interaction effect, $F(1) = 3.73, p = .0008$, with Holm adjustment: $p = .040$. Again, there was a main effect of treatment in both groups; these youth exhibited significant reductions in PTSS after therapy. Furthermore, the

### Table 5

| Outcome       | Treatment Effect (ITT) |                   |                      | Treatment Effect (Completers) |                      |                      |
|---------------|------------------------|-------------------|----------------------|-------------------------------|----------------------|----------------------|
|               | Val. (Est.) 95% CI p   | Interaction       | Val. (Est.) 95% CI p | Interaction                   |                      |                      |
|               |                       | Time $\times$ Group |                       | Time $\times$ Group           |                      |                      |
| CPSS          |                        |                   |                      |                               |                      |                      |
| T2            | 1.73 -1.72, 5.16 .324  | $p = .007$        | 1.30 -2.52, 5.12 .502  | $p = .008$                    |                      |                      |
| T3            | 5.78 2.32, 9.23 .001   | $p = .011$        | 5.53 1.83, 9.23 .004   | $p = .026$                    |                      |                      |
| fCPSS         | -0.38 -1.00, 0.24 .227 | $p = .022$        | -0.44 -1.12, 0.24 .203  | $p = .065$                    |                      |                      |
| T2            | -1.05 -1.67, -0.42 .001| $p = .022$        | -1.13 -1.79, -0.48 .001 | $p = .065$                    |                      |                      |
| T3            | 2.21 -2.70, 7.12 .375  | $p = .015$        | 4.11 -1.27, 9.50 .133   | $p = .015$                    |                      |                      |
| MFQ           | 7.00 2.04, 11.96 .006 |                  | 8.26 3.03, 13.48 .002  |                               |                      |                      |
| SCARED        | 0.59 -5.15, 6.33 .839  | $p = .006$        | 1.79 -4.64, 8.22 .583   | $p = .186$                    |                      |                      |
| T2            | 4.34 -1.50, 10.19 .144 |                  | 5.15 -1.13, 11.44 .107 |                               |                      |                      |
| T3            | 2.54 0.50, 4.58 .015   | $p = .026$        | 2.60 0.49, 4.70 .016    | $p = .036$                    |                      |                      |

Note. CPSS = Child PTSD Symptom Scale; fCPSS = PTS symptoms influence on daily functioning; MFQ = Mood and Feelings Questionnaire; SCARED = Screen for Child Anxiety-Related Disorders; SDQ = Strengths and Difficulties Questionnaire.
negative impact of trauma symptoms on daily functioning was significantly reduced in the TF-CBT group compared to the TAU group at the end of therapy, \( t(118) = 3.42, p = .001 \), with Holm adjustment: \( p = .004 \).

Completer analyses also showed a main effect of treatment condition on depressive symptoms, \( t(117) = 3.13, p = .002 \), with Holm adjustment: \( p = .009 \), and children’s general mental health symptoms, \( t(113) = 2.44, p = .016 \), with Holm adjustment: \( p = .032 \). However, there was no main effect of treatment condition on children’s anxiety symptoms, \( t(113) = 1.62, p = .107 \), with Holm adjustment: \( p = .107 \). See Table 5 for a more detailed description of these results.

**Per-protocol analyses.** Five cases from the TF-CBT group did not receive TF-CBT, and following a per-protocol approach, the five cases were treated as cases in the comparison group (PP1) or taken out of the analyses (PP2). Both the PP1 and PP2 analyses yielded similar results as the ITT and completer analyses.

**Diagnostic criteria for PTSD.** Diagnostic CAPS interviews conducted on all participants prior to treatment showed that 66.7\% of the participants met the diagnostic criteria for full PTSD. At this time, there was no significant relationship between therapy condition and PTSD diagnosis, \( \chi^2(1, N = 116) = 1.55, p = .213, \phi = .10 \). However, there was a significant association between therapy condition and PTSD diagnosis posttreatment, \( \chi^2(1, N = 116) = 4.61, p = .031, \phi = .20 \). In the TF-CBT group, 18.2\% of the participants (\( n = 10 \) of 55) fulfilled the diagnostic criteria compared to 36.1\% (\( n = 22 \) of 61) of participants in the TAU group. In terms of diagnostic remission, significantly more participants in the TF-CBT group lost their PTSD diagnosis from T1 to T3 (77.8\%, \( n = 28 \) of 36) compared to the TAU group (54.8\%, \( n = 23 \) of 42), \( \chi^2(1, N = 78) = 4.54, p = .033, \phi = -.24 \). Of those participants with no diagnosis at T1, two participants in the TF-CBT and three in the TAU group fulfilled diagnostic criteria at T3.

**Clinically significant change.** Pretreatment, all participants were above the clinical range for CPSS (≥11), and this number was reduced to 45.8\% (\( n = 27 \)) in the TF-CBT group and 65.1\% (\( n = 41 \)) in the TAU group, \( \chi^2(1, N = 122) = 4.61, p = .032, \phi = .19 \), posttreatment. Regarding the MFQ, 72.4\% (\( n = 113 \)) of participants were above the clinical range pretreatment. After treatment, this number was reduced to 19.3\% (\( n = 11 \)) in the TF-CBT group and 38.7\% (\( n = 24 \)) in the TAU group, \( \chi^2(1, N = 119) = 5.39, p = .020, \phi = .21 \). Group differences were not present for (a) the SCARED, pretreatment: 64.7\% (\( n = 101 \)); posttreatment: 40\% (\( n = 20 \)) in the TF-CBT group and 37.7\% (\( n = 23 \)) in the TAU group; \( \chi^2(1, N = 115) = 0.01, p = .941, \phi = .01 \), or (b) the SDQ, pretreatment: 50.6\% (\( n = 91 \)); posttreatment: 25.0\% (\( n = 14 \)) in the TF-CBT group and 27.1\% (\( n = 16 \)) in the TAU group; \( \chi^2(1, N = 115) = 0.07, p = .796, \phi = .02 \).

**DISCUSSION**

The purpose of this study was to evaluate the effectiveness of TF-CBT by comparing it to the therapy that is usually provided in community clinics. This is the first randomized study to evaluate the effectiveness of TF-CBT outside of the United States, where the program was developed. This study is also one of the few studies to use a participant sample consisting of multitraumatized youths exhibiting a wide range of psychological symptoms. As expected, the youth in both treatment groups showed significant improvement from pre- to posttherapy in terms of PTSS, depression, anxiety, and general mental health functioning. In addition, in line with our hypotheses, there were significant differences between groups. Regarding total PTSS scores, the negative impact of PTSS on daily functioning, depressive symptoms, and general mental health problems, participants in the TF-CBT condition scored significantly lower compared to those in the TAU group posttreatment. In addition, significantly fewer participants in the TF-CBT condition met the diagnostic criteria for full PTSD posttreatment. In contrast, there were no significant differences in anxiety symptoms between the two treatment conditions. Taken together, these results add to the existing body of research on TF-CBT (Silverman et al., 2008) and indicate that TF-CBT may also be more effective in reducing a wide range of symptoms than usual care, at least as usual care was practiced in these clinics.

The finding that participants in the TF-CBT group experienced a significant reduction not only in PTSS reactions but also other symptoms is in agreement with the findings of previous TF-CBT studies (Cohen, Deblinger, et al., 2004; Cohen et al., 2011; Deblinger et al., 1996). Because PTSD often co-occurs with other disorders, this is an important finding for clinicians. The reduction in depression is particularly interesting to note, as some evidence-based treatments for depression reported in other studies do not outperform treatment as usual (Kerfoot, Harrington, Harrington, Rogers, & Verduyn, 2004; Weisz et al., 2009). Although we did not specifically examine which components may have been particularly beneficial for treatment outcomes in this study, teaching skills with which to regulate emotions and correct maladaptive appraisals appears to be fundamental for many effective interventions (Berliner, 2005). The cognitive and affect regulation components incorporated in TF-CBT may address symptoms related to both depression and posttraumatic stress. Alternatively, the reduction in depressive symptoms may be a result of...
a decline in PTS reactions. Traumatized youth may, for example, begin to feel hope about the future when they experience an alleviation of PTSS. It is also interesting to note that participants receiving TF-CBT showed a significantly greater reduction in general mental health problems, such as externalizing behavior, emotional problems, social and peer problems, hyperactivity and concentration problems, compared to participants in the TAU group. This finding appears to support the claim of TF-CBT developers that TF-CBT is a broad-based treatment that targets the range of symptoms that traumatized youth typically present in community mental health clinics (Cohen, Mannarino, & Deblinger, 2006).

Contrary to our expectations and findings from other TF-CBT studies, we did not find significant differences in the reduction of anxiety symptoms across treatment conditions. Interestingly, an examination of the different subgroups of anxiety revealed that GAD scores were significantly more reduced in the TF-CBT group than in the TAU group. It is possible that social anxiety, panic disorder, specific phobias, and school avoidance require more targeted exposure interventions than provided in TF-CBT. In contrast, the nature of the “free-floating” anxiety often associated with GAD may be more easily changed by nonspecific techniques, such as cognitive restructuring, affect regulation, and relaxation. Future studies should examine this further.

It is also noteworthy that we did not need to make any significant cultural adaptations while implementing the program in Norway. This finding may reflect the flexible nature of the program, in which therapists are encouraged to specifically tailor the interventions to each child. This cultural flexibility suggests that TF-CBT may be a promising treatment program that can be transported, without extensive adaptation, to countries outside of the United States. In fact, researchers in other European countries who are working on implementing TF-CBT have reported similar experiences (Murray & Skavenski, 2012). However, the implementation efforts that are currently ongoing in several low-resource countries, such as Zambia, Tanzania, Cambodia, and the Democratic Republic of Congo, suggest that cultural differences and the limited availabilities of educated therapists require modifications in TF-CBT implementation. These modifications are described as minor though, suggesting that TF-CBT may translate well to cultures outside the United States (Murray & Skavenski, 2012).

This study has several methodological strengths. In addition to using a randomized controlled trial design, which is considered to be the gold standard for studying treatment efficacy, participants were recruited through standard referral procedures and were thus more likely to reflect regular cases. Furthermore, the assessments were conducted by evaluators who were naïve to the treatment condition, thereby reducing the risk of researcher allegiance bias. Finally, there was extensive fidelity reporting. However, the results must be viewed in light of some important limitations. First, there were significantly more psychologists with postgraduate training among the TF-CBT therapists compared to the TAU therapists. Second, the TF-CBT therapists received substantially more supervision than the TAU therapists. Therefore, the results may also be a consequence of clinical supervision. On the other hand, all the TF-CBT therapists were new to the intervention, and the enhanced supervision was part of their TF-CBT training. One might thus expect even more improvement in outcomes as the therapists become more familiar with the program and more at ease with tailoring the program to each child’s needs. However, studies have also shown that therapists tend to “drift” away from treatment protocols over time; therefore, it cannot be definitively concluded that increasing therapists’ exposure to TF-CBT would improve outcomes (Saunders & Hanson, in press). Another limitation is that the therapists were not randomized. The TF-CBT therapists volunteered to learn TF-CBT. Randomizing therapists could have reduced the possible effect of therapist variables. Most of the therapist in the TF-CBT group described their theoretical orientation as cognitive-behavioral, whereas most of the TAU therapists describe their orientation as psychodynamic, and this could have influenced the results. It is also reasonable to assume that the TF-CBT therapists were highly motivated, and this may have affected the results. Therapists who volunteered for TF-CBT training may also have been more likely to use the program with success and fidelity than other clinicians at the same clinic. Finally, although the findings suggest that TF-CBT is equally effective in helping boys and girls, the number of boys in the study was small. Future studies should make an effort to include more boys to determine whether there are gender differences.

Implication for Research, Policy and Practice

There is reason to believe that many youth often suffer from undiagnosed PTSD and that they often do not receive adequate treatment. Documenting effective treatments that can be provided within the realm of regular clinical care is therefore of vital importance. The findings from this study indicate that TF-CBT may be an effective treatment for traumatized youth in community clinics in Norway and thus emphasize the promise of this program in being successfully transported to countries outside of the United States. The developers of TF-CBT have conducted an impressive amount of their own research documenting the usefulness of TF-CBT, and they have
inspired many other studies as well. However, on the basis of meta-analyses, in which the authors claim that the positive results found in studies using manualized treatments are, in part, explained by researcher bias (Leykin & DeRubeis, 2009), independent replications are needed to minimize the possible attribution of the previous findings of the effectiveness of TF-CBT to expectancy effects. This study demonstrates that although both treatment groups experienced significant reductions in symptoms, the type of treatment appeared to play an important role in alleviating PTSD and other mental health problems. However, it is noteworthy that some participants did not respond as well to the treatment program, and further research should focus on achieving a greater understanding of why some groups of children do not respond well to the program. In summary, it is promising that the treatment results appear to hold up across trauma experiences that include multiple and severe interpersonal traumas. Whether these treatment effects will persist in follow-up analyses 18 months after treatment remains undetermined.

REFERENCES

Ackerman, P. T., Newton, J. E. O., McPherson, W. B., Jones, J. G., & Dykman, R. A. (1998). Prevalence of post traumatic stress disorder and other psychiatric diagnoses in three groups of abused children (sexual, physical, and both). Child Abuse & Neglect, 22, 759–774. doi:10.1016/s0145-2134(98)00062-3

Aickin, M., & Gensler, H. (1996). Adjusting for multiple testing when reporting research results: The Bonferroni vs Holm methods. American Journal of Public Health, 86, 726–728.

Ajdukovic, M. (1998). Displaced adolescents in Croatia: Sources of stress and posttraumatic stress reaction. Adolescence, 33, 209–217. American Psychiatric Association. (1994). Diagnostic and statistical manual of mental disorders (4th ed.). Washington, DC: Author.

Angold, A., Costello, E. J., Messer, S. C., & Pickles, A. (1995). Development of a short questionnaire for use in epidemiological studies of depression in children and adolescents. International Journal of Methods in Psychiatric Research, 3, 237–249.

Berliner, L. (2005). The results of randomized clinical trials move the field forward. Child Abuse & Neglect, 29, 103–105.

Birmaher, B., Brent, D. A., Chiappetta, L., Bridge, J., Monga, S., & Baugher, M. (1999). Psychometric properties of the screen for child anxiety related emotional disorders (SCARED): A replication study. Journal of the American Academy of Child and Adolescent Psychiatry, 38, 1230–1236.

Cohen, J. A., Deblinger, E., Mannarino, A. P., & Steer, R. A. (2004). A multisite, randomized controlled trial for children with sexual abuse-related PTSD symptoms. Journal of the American Academy of Child & Adolescent Psychiatry, 43, 393–402.

Cohen, J. A., & Mannarino, A. P. (1996). A treatment outcome study for sexually abused preschool children: Initial findings. Journal of the American Academy of Child & Adolescent Psychiatry, 35, 42–50.

Cohen, J. A., & Mannarino, A. P. (1997). A treatment study for sexually abused preschool children: Outcome during a one-year follow-up. Journal of the American Academy of Child & Adolescent Psychiatry, 36, 1228–1235.

Cohen, J. A., & Mannarino, A. P. (1998). Interventions for sexually abused children: Initial treatment outcome findings. Child Maltreatment, 3, 17–26.

Cohen, J. A., & Mannarino, A. P. (2008). Trauma-focused cognitive behavioral therapy for children and parents. Child and Adolescent Mental Health, 13, 158–162.

Cohen, J. A., Mannarino, A. P., & Deblinger, E. (2006). Treating trauma and traumatic grief in children and adolescents. New York, NY: Guilford.

Cohen, J. A., Mannarino, A. P., & Iyengar, S. (2011). Community treatment of posttraumatic stress disorder for children exposed to intimate partner violence: A randomized controlled trial. Archives of Pediatrics Adolescent Medicine, 165, 16–21.

Cohen, J. A., Mannarino, A. P., & Knudson, K. (2004). Treating childhood traumatic grief: A pilot study. Journal of the American Academy of Child & Adolescent Psychiatry, 43, 1225–1233.

Cohen, J. A., Mannarino, A. P., & Knudson, K. (2005). Treating sexually abused children: 1 year follow-up of a randomized controlled trial. Child Abuse & Neglect, 29, 135–145.

Cohen, J. A., Mannarino, A. P., Perel, J. M., & Staron, V. (2007). A Pilot randomized controlled trial of combined trauma-focused CBT and sertraline for childhood PTSD symptoms. Journal of the American Academy of Child & Adolescent Psychiatry, 46, 811–819. doi:10.1097/chi.0b013e3180547105

Cohen, J. A., Mannarino, A. P., & Staron, V. R. (2006). A Pilot study of modified cognitive-behavioral therapy for childhood traumatic grief (CBT–CTG). Journal of the American Academy of Child & Adolescent Psychiatry, 45, 1465–1473.

Connolly, D., McClowry, S., Hayman, L., Mahony, L., & Artman, M. (2004). Posttraumatic stress disorder in children after cardiac surgery. The Journal of Pediatrics, 144, 480–484.

Copeland, W. E., Keeler, G., Angold, A., & Costello, E. J. (2007). Traumatic events and posttraumatic stress in childhood. Archives of General Psychiatry, 64, 577–584.

Deblinger, E., Cohen, J. A., Mannarino, A. P., Murray, L. A., & Epstein, C. (2008). TF-CBT Fidelity Checklist (Unpublished instrument). Stratford, NJ: UMDNJ-SOM CARES Institute.

Deblinger, E., Lippman, J., & Steer, R. (1996). Sexually abused children suffering posttraumatic stress symptoms: Initial treatment outcome findings. Child Maltreatment, 1, 310–321. doi:10.1177/1077559596001004003.

Deblinger, E., Mannarino, A., Cohen, J. A., Runyon, M. K., & Steer, R. A. (2011). Trauma-focused cognitive behavior therapy for children: Impact of the traumanarrative and treatment length. Depression and Anxiety, 28, 67–75. doi:10.1002/da.20744

Deblinger, E., Mannarino, A. P., Cohen, J. A., & Steer, R. A. (2006). A follow-up study of a multisite, randomized, controlled trial for children with sexual abuse-related PTSD symptoms. Journal of the American Academy of Child & Adolescent Psychiatry, 45, 1474–1484.

Deblinger, E., Stauffer, L., & Steer, R. (2001). Comparative efficacies of supportive and cognitive behavioral group therapies for young children who have been sexually abused and their nonoffending mothers. Child Maltreatment, 6, 332–343.

Deblinger, E., Steer, R. A., & Lippman, J. (1999). Two-year follow-up study of CBT for sexually abused children suffering posttraumatic stress symptoms. Child Abuse & Neglect, 23, 1371–1378.

Dube, S. R., Felitti, V. J., Dong, M., Giles, W. H., & Anda, R. F. (2003). The impact of adverse childhood experiences in health problems: Evidence from four birth cohorts dating back to 1900. Preventive Medicine, 37, 268–277.

Ehrenreich-May, J., Southam-Gerow, M. A., Hourigan, S. E., Wright, L. R., Pincus, D. B., & Weisz, J. R. (2011). Characteristics of anxious and depressed youth seen in two different clinical contexts. Administration and Policy in Mental Health, 38, 398–411. doi:10.1007/s10488-010-0328-6
Famularo, R., Fenton, T., Kinscherff, R., & Augustyn, M. (1996). Psychiatric comorbidity in childhood posttraumatic stress disorder. *Child Abuse & Neglect, 20*, 953-961.

Finkelhor, D. (1994). The international epidemiology of child sexual abuse. *Child Abuse and Neglect, 18*, 409-417.

Finkelhor, D., Ormrod, R. K., & Turner, H. A. (2009). Lifetime assessment of poly-victimization in a national sample of children and youth. *Child Abuse & Neglect, 33*, 403-411.

Foa, E. B., Johnson, K. M., Feeny, N. C., & Treadwell, K. R. (2001). *Clinician Administered PTSD Scale, Child and Adolescent version (CAPS–C)*. White River Junction, VT: National Center for PTSD.

Foster, J. (2006). *A step too far? Randomized trial of cognitive-behaviour therapy delivered by social workers to depressed adolescents*. Baltimore, MD: Johns Hopkins University Press.

Frijns, E. M. (2003). Poly-victimization and risk of posttraumatic, depressive, and substance use disorders and involvement in delinquency in a national sample of adolescents. *The Journal of Adolescent Health, 46*, 545–552. doi:10.1016/j.jadohealth.2009.11.212

Goodman, R. (2001). Psychometric properties of the strengths and difficulties questionnaire. *Journal of the American Academy of Child & Adolescent Psychiatry, 40*, 1337–1345. doi:10.1097/00004583-200111000-00015

Hoagwood, K. E., Radigan, M., Rodriguez, J., Levitt, J. M. D. F., & Adolescent Psychiatry, & Blake, D. (2004). *Evidence-based treatments for youth: Challenges and recommendations*. New York, NY: Guilford.

Kazdin, A. E. (2002). The state of child and adolescent psychotherapy research. *Child and Adolescent Mental Health, 7*, 53–59.

Kersfoot, M., Harrington, R., Harrington, V., Rogers, J., & Verdun, C. (2004). A randomized trial of cognitive-behaviour therapy delivered by social workers to depressed adolescents. *European Child & Adolescent Psychiatry 13*, 92–99. doi:10.1007/s00787-004-0362-6

Kilpatrick, D. G., Ruggiero, K. J., Acienro, R., Saunders, B. E., Resnick, H. S., & Best, C. L. (2003). Violence and risk of PTSD, major depression, substance abuse/dependence, and comorbidity: Results from the National Survey of Adolescents. *Journal of Consulting and Clinical Psychology, 71*, 692–700. doi:10.1037/0022-006X.71.4.692

King, N. J., Tonge, B. J., Mullon, P., Myerson, N., Heyne, D., Rollings, S.,…Ollendick, T. H. (2000). Treating sexually abused children with posttraumatic stress symptoms: A randomized clinical trial. *Journal of the American Academy of Child & Adolescent Psychiatry, 39*, 1347–1355.

LaGreca, A. M., Silverman, W. K., Vernberg, E. M., & Prinstein, M. J. (1996). Symptoms of posttraumatic stress in children after Hurricane Andrew: A prospective study. *Journal of Consulting and Clinical Psychology, 64*, 712–723.

Leykin, Y., & DeRubeis, R. J. (2009). Alleviation in psychotherapy outcome research: Separating association from bias. *Clinical Psychology: Science and Practice, 16*, 54–65. doi:10.1111/j.1468-2850.2009.01143.x

Meier-Stedman, R., Smith, P., Glucksman, E., Yule, W., & Dalgleish, T. (2008). The posttraumatic stress disorder diagnosis in preschool- and elementary school-age children exposed to motor vehicle accidents. *American Journal of Psychiatry, 165*, 1326-1337.

Murray, L. K., & Skovenski, S. A. (2012). International settings. In J. A. Cohen, A. P. Mannarini, & E. Deblinger (Eds.), *Trauma-focused CBT for children and adolescents* (pp. 225–252). New York, NY: Guilford.

Nader, K., Krieger, J. A., Blake, D. D., Pynoos, R. S., Newman, E., & Weathers, F. (1996). *Clinician Administered PTSD Scale, Child and Adolescent version (CAPS–CA)*. Los Angeles, CA: Western Psychological Press.

Norris, F. H., Friedman, M. J., & Watson, P. J. (2002). 60,000 disaster victims speak: Part II: Summary and implications of the disaster mental health research. *Psychiatry, 65*, 240–260.

Pinheiro, J., & Bates, D. (2000). *Mixed effects models in S and S-Plus*. New York, NY: Springer-Verlag.

Ribbe, D. (1996). Psychometric review of Traumatic Event Screening Instrument for Children (TESI–C). In B. H. Stamm (Ed.), *Measurement of stress, trauma, and adaptation* (pp. 386–387). Lutherville, MD: Sidran Press.

Rolling, J., Handegaard, B., Sourander, A., & Morch, W.-T. (2004). The Strengths and Difficulties Self-Report Questionnaire as a screening instrument in Norwegian community samples. *European Child & Adolescent Psychiatry, 13*, 73–82. doi:10.1007/s00787-004-0356-4

Saigh, P. A., Yask, A. E., Oberfield, R. A., Halamanadis, P. V., & McHugh, M. (2002). An analysis of the internalizing and externalizing behaviors of traumatized urban youth with and without PTSD. *Journal of Abnormal Psychology, 111*, 462–470.

Saunders, B. E., & Hanson, R. F. (in press). Innovative methods for implementing evidence supported interventions for mental health treatment of child and adolescent victims of violence. In R. M. Reece, R. F. Hanson, & J. Sargent (Eds.), *Treatment of child abuse: Common ground for mental health, medical and legal practitioners*. Baltimore, MD: Johns Hopkins University Press.

Saxe, G. N., Stodard, F., Hall, E., Chawly, N., Lopez, C., Sheridan, R.,…Yehuda, R. (2005). Pathways to PTSD, Part I: Children with burns. *American Journal of Psychiatry 162*, 1299–1304.

Screehing, M. S., Weems, C. F., Cohen, J. A., Amaya-Jackson, L., & Guthrie, D. (2011). Trauma-focused cognitive-behavioral therapy for posttraumatic stress disorder in three through six year-old children: A randomized clinical trial. *The Journal of Child Psychology and Psychiatry, 52*, 853–860.

Schoenwald, S. K., & Hoagwood, K. (2001). Effectiveness, transportability, and dissemination of interventions: What matters when? *Psychiatric Services, 52*, 1190–1197.

Shirk, S. R., Karver, M. S., & Brown, R. (2011). The alliance in child and adolescent psychotherapy. *Psychotherapy, 48*, 17–24. doi:10.1037/a0022181

Silverman, W. K., Ortiz, C. D., Viswesvaran, C., Burns, B. J., Kolko, D., Putnam, F. W., & Amaya-Jackson, L. (2008). Evidence-based psychosocial treatments for children and adolescents exposed to traumatic events. *Journal of Clinical Child & Adolescent Psychology, 37*, 156–183.

Southam-Gerow, M. A., Rodriguez, A., Chorpita, B. F., & Daleiden, E. L. (2012). Dissemination and implementation of evidence based treatments for youth: Challenges and recommendations. *Professional Psychology: Research and Practice, 43*, 527–534.

Southam-Gerow, M. A., Weiss, J. R., & Kendall, P. C. (2003). Youth with anxiety disorders in research and service clinics: Examining client differences and similarities. *Journal of Clinical Child and Adolescent Psychology, 32*, 375–385.
Wampold, B. E., Mondin, G. W., Moody, M., Stich, F., Benson, K., & Ahn, H. (1997). A meta-analysis of outcome studies comparing bona fide psychotherapies: Empirically, “all must have prizes.” *Psychological Bulletin, 122*, 203–215.

Weathers, F. W., Ruscio, A. M., & Keane, T. M. (1999). Psychometric properties of nine scoring rules for the Clinician-Administered Posttraumatic Stress Disorder Scale. *Psychological Assessment, 11*, 124–133.

Weisz, J. R., & Addis, M. E. (2006). The research-practice tango and other choreographic challenges: Using and testing evidence-based psychotherapies in clinical care settings. In C. D. Goodheart, A. E. Kazdin, & R. J. Sternberg (Eds.), *Evidence-based psychotherapy: Where practice and research meet* (pp. 179–206). Washington, DC: American Psychological Association.

Weisz, J. R., & Gray, J. S. (2008). Evidence-based psychotherapy for children and adolescents: Data from the present and a model for the future. *Child and Adolescent Mental Health, 13*, 54–65. doi:10.1111/j.1475-3588.2007.00475.x

Weisz, J. R., Southam-Gerow, M. A., Gordis, E. B., Connor-Smith, J. K., Chu, B. C., Langer, D. A., . . . Weiss, B. (2009). Cognitive–behavioral therapy versus usual clinical care for youth depression: An initial test of transportability to community clinics and clinicians. *Journal of Consulting and Clinical Psychology, 77*, 383–396. doi:10.1037/a0013877

Wise, E. A. (2004). Methods for analyzing psychotherapy outcomes: A review of clinical significance, reliable change, and recommendations for future directions. *Journal of Personality Assessment, 82*, 50–59. doi:10.1207/s15327752jpa8201_10