Testimony Psychotherapy in Bosnian Refugees: A Pilot Study

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Objective: The authors sought to describe the use of the testimony method of psychotherapy in a group of traumatized adult refugees from genocide in Bosnia-Herzegovina.

Method: The subjects were 20 Bosnian refugees in Chicago who gave written informed consent to participate in a case series study of testimony psychotherapy. All subjects received testimony psychotherapy, averaging six sessions, approximately 90 minutes, weekly or biweekly. Subjects received standardized instruments for posttraumatic stress disorder (PTSD), depression, traumatic events, global functioning, and prior psychiatric history. The instruments were administered before treatment, at the conclusion of the treatment, and at the 2- and 6-month follow-ups. Results: The posttreatment assessments demonstrated significant decreases in the rate of PTSD diagnosis, PTSD symptom severity, and the severity of reexperiencing, avoidance, and hyperarousal symptom clusters. Depressive symptoms demonstrated a significant decrease, and there was a significant increase in scores on the Global Assessment of Functioning Scale. Two-month and 6-month follow-up assessments demonstrated further significant decreases in all symptoms and an increase in scores on the Global Assessment of Functioning Scale. Conclusions: This pilot study provides preliminary evidence that testimony psychotherapy may lead to improvements in PTSD and depressive symptoms, as well as to improvement of functioning, in survivors of state-sponsored violence.

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havioral methods (i.e., flooding) and cognitive therapy (i.e., stress inoculation therapy) (10, 11). There has been relatively little research done on the treatment of PTSD, and what has been done has been primarily among combat veterans, rape survivors, and survivors of sexual abuse. Controlled treatment studies of PTSD in refugees and within other ethnocultural contexts are not found in the literature.

Because treatment research has demonstrated the clinical efficacy of some cognitive behavior techniques, a general comparison between the conceptual understanding of the testimony method and cognitive behavior treatment is indicated. The latter is based on behavioral theories, which focus on the fear and avoidance that are generated in the individual victim when a neutral stimulus has been paired with a frightening one. Treatment is said to work by deactivating these “networks of fear” in the psyche (12). Testimony, on the other hand, is based on theories that consider collective traumatization to be at least as significant as individual traumatization (8, 13). Testimony is said to work through narration of individuals’ personal experiencing of collective traumatization in a new social context in which their remembrances can be used to develop new collective understandings of history and communal identity that can better support peace and social trust.

The distinction in conceptual approaches between these two methods is made even more salient when one considers the sociocultural contexts of traumatization for the Bosnian survivors of ethnic cleansing described in this study. A central theme of Bosnian life of the past 50 years has been the collision between two irreconcilable historical experiences: the slaughtering of civilians and a civil life. The central threat has been the ending of a multiethnic way of life and culture and its replacement by the order of ethnic nationalism. Bosnians approach the matter of traumatization as a matter of collective as well as individual experience. There is the strong sense that what was targeted was not only their individual lives but also their collective way of life. They are also very aware that in Communist Yugoslavia, there were serious limits imposed upon the kinds of stories that they could tell about social traumas, such as those of World War II (14). The testimony approach offers the possibility of affirmatively addressing these aspects of the Bosnian experience, supporting strengths inherent in the survivors’ struggles to recollect, to find meaning, to communicate, and to learn and teach what it means to survive political violence and to be Bosnian.

Whereas other forms of treating PTSD, such as cognitive behavior therapy, can take place within standard mental health service contexts, testimony requires the establishment of a different kind of “psychosocial space” (4). For us, this has involved creating an oral history archives to collect, study, and disseminate the survivors’ memories along with the associated knowledge and dilemmas. Within this context, where the survivors explicitly understand that their remembrances are becoming a part of a collective inquiry, testimony can reduce individual suffering, even when survivors have not explicitly sought trauma treatment. Still, there are many factors that work against traumatic remembrance, including economic hardship, family beliefs, and the lack of institutional support.

The aims of this pilot study were 1) to describe the impact of the testimony method of psychotherapy on PTSD and depression in individual survivors, and 2) to discuss the use of testimony psychotherapy as a treatment intervention and factors that may account for its efficacy.

**METHOD**

**Subjects**

The subjects of the study were 20 adult survivors of “ethnic cleansing”—Bosnian refugees who had resettled in Chicago in the previous 2 years. All subjects were ethnic Bosnians. Eight subjects (40%) were women, and 12 subjects (60%) were men. The age range was from 23 to 62 years (mean=45.1). Their formal education level was between 8 and 17 years (mean=12.5). All subjects had survived genocidal trauma with an average of 16.0 (range=10–26) types of traumatic experiences, determined by the Communal Trauma Experiences Inventory, as described in previous reports (i.e., witnessing killings, being under siege, enduring physical beatings) (15). They all met symptom criteria for the diagnosis of PTSD according to DSM-IV. Only one subject had any prior psychiatric history, a major depressive episode 20 years before traumatization. None of the others had any prior history of major psychiatric disorders or psychiatric treatment.

Through our outreach work in the Chicago Bosnian community, we recruited subjects into the testimony group. We had let the existence of the testimony project be known. Some subjects came forward and asked to participate. Others were asked by one of us if they would be interested. Over the 1-year period when the study was conducted, there were three persons who were asked to participate but declined. No volunteer was excluded, and no one who initiated testimony failed to complete it. All subjects volunteered, signing the written informed consent document, to participate in the study of testimony psychotherapy and to include their testimonies in the oral history archives. The internal review board of the University of Illinois at Chicago reviewed and approved the protocol for this study.

**Psychiatric Assessments**

All subjects received standardized evaluations for traumatic stress, depression, psychosocial functioning and screening for prior psychiatric history as has been described elsewhere (15). Instruments were the PTSD Symptoms Scale (16), the Beck Depression Inventory (17), and the Global Assessment of Functioning Scale (18). Each subject also received clinical assessments that included a complete prior psychiatric history, a mental status examination, and a checklist for commonly associated DSM-IV axis I disorders that was drawn from the Structured Clinical Interview for DSM-III-R (19).

All instruments were translated into Bosnian by a team of interpreters and clinicians. We used back translations to check accuracy. We performed assessments just before testimony psychotherapy, at the completion of the last session of therapy, and at 2- and 6-month follow-ups. The raters were Bosnian mental health professionals (all of whom are physicians) and an American psychiatrist from our clinical-research team.

**Testimony Psychotherapy**

Testimony psychotherapy consisted of an average of six sessions (range=4–8), weekly or biweekly, each session lasting approximately 90 minutes. The procedure as a whole lasted approximately 6 weeks.
The data were analyzed by using mixed-effects regression models designed for analysis of longitudinal data of this type (20). We analyzed continuous measurements (reexperiencing, avoidance, hyperarousal, severity, Beck inventory, and Global Assessment of Functioning) by using the standard mixed-effects model for continuous outcomes (21). We analyzed change in rate of PTSD diagnosis over time by using a mixed-effects probit regression model for binary outcomes (22–24). In all cases, we first tested for significance of the overall time trend (i.e., trend over the four measurement occasions: pre-, post-, 2-month and 6-month follow-up); we then tested for individual contrasts comparing each posttreatment measurement occasion to baseline. We used the MIXREG program (25) in analysis of the continuous outcomes and the MIXOR program (26) in analysis of the binary diagnosis outcome variable.

RESULTS

PTSD, Depression, and Global Assessment of Functioning

The rate of PTSD diagnosis decreased from 100% at pretestimony to 75% posttestimony, 70% at 2-month follow-up, and 53% at 6-month follow-up. The mean score for PTSD symptom severity decreased from 31.2 at pretestimony to 19.6 posttestimony, then to 11.4 at 2-month follow-up and 7.7 at 6-month follow-up. The mean score for reexperiencing symptoms decreased from 9.0 pretestimony to 5.8 posttestimony, then to 3.8 at 2-month follow-up and 2.5 at 6-month follow-up. The mean score for avoidance symptoms decreased from a pretestimony value of 11.6 to 7.5 posttestimony, then to 3.7 at 2-month follow-up and 2.2 at 6-month follow-up. The mean score for hyperarousal symptoms decreased from 10.6 pretestimony to 5.8 posttestimony, then to 3.7 at 2-month follow-up and 2.9 at 6-month follow-up.

The mean Beck inventory score decreased from 14.7 pretestimony to 9.0 posttestimony, then to 5.0 at 2-month follow-up and 2.1 at 6-month follow-up.

The mean score on the Global Assessment of Functioning Scale increased from 63.0 pretestimony to 72.9 posttestimony, then to 80.5 at 2-month follow-up and to 87.0 at 6-month follow-up.

Mixed Effects Regression Models Testing Treatment Efficacy

Table 1 is interpreted as follows. The maximum likelihood estimate, standard error, and probability de-
The testimony work produced 20 survivors’ narratives that ranged in length from 30 to 96 pages. All survivors agreed to place a copy of their testimony psychotherapy documents in the project’s oral history archives. The other copy was for them to keep privately or to share with their families, their communities, and with government and human rights organizations, if they so desired. This testimony material in the archives is being approached from an interdisciplinary perspective as addressed in other reports (27–29). In their narratives, survivors often address their experience of testimony psychotherapy itself. For example, a 53-year-old professor, survivor of the concentration camp, said (tape recordings of anonymous interviews by S.M. Weine et al.):

Well, this story could last for years. I have no illusions that I told you everything because each and every day of that time is a whole story. Sometimes, one hour of a day was a story. When I speak to someone who listens to me, and who respects me, and when I can tell my story to such a person, then I feel good. I don’t feel like a zero, and I have felt that way in concentration camp, or even coming to this country. You know, all the time you feel as if you were nobody, nothing, because they can step on you, kill you, humiliate you, at any moment of the day or night. It was not much different in Croatia or when I first came to this country. When you have no self-confidence, you feel hopeless and helpless. You can do nothing, you cannot contribute to anyone, not even to yourself… I think that the stories should be collected. This time we have to know our history, because otherwise, others will be falsifying the history, as they did before. All we have to do is to record the truth. That is why I am happy that my story has been recorded.

DISCUSSION

Impact of Testimony Psychotherapy on PTSD and Depression

Our findings indicate that testimony psychotherapy decreased both PTSD diagnosis and severity in a group of refugees to the United States who were survivors of state-sponsored violence in Bosnia-Herzegovina. This finding is generally consistent with those of Cienfuegos and Monelli (1). Our use of standardized instruments, follow-up assessments, and statistical analysis provides additional substantiation of their findings.

Our clinical and research experience indicates that when one thinks of testimony psychotherapy’s possible clinical impact, the changes in PTSD symptom severity, which occurred across all three symptom clusters, would appear to have at least as much clinical significance as the presence or absence of the diagnosis of PTSD. We found that testimony psychotherapy also led to a reduction of depressive symptoms that often accompany PTSD in this population. For the subjects in our study, there were no apparent negative effects of giving testimony.

These findings run contrary to the opinion that we have often encountered among survivors, refugee resettlement workers, and health care providers: that it is not helpful to tell the trauma story. Our findings provide some evidence to support the claim that telling the trauma story through testimony psychotherapy can reduce symptoms and improve survivors’ psychosocial functioning. When successful, telling their stories can enable survivors to advance on the path to recovery, accepting new responsibilities and regaining satisfactory functioning in their families, their workplaces, and their new surroundings.
**Use of Testimony Psychotherapy**

The testimony method of psychotherapy is one of numerous interventions that mental health professionals have for working with survivors of state-sponsored violence. It may be the sole intervention with a survivor, or as is often the case in the psychiatric treatment of trauma, it may be used adjunctively with other methods of psychotherapy, with pharmacotherapy, or with other forms of psychosocial assistance. These treatments can be used before, during, or after testimony psychotherapy.

There is still much to learn about the indications for the use of testimony. Our experience working with Bosnian survivors has demonstrated that individuals with severe clinical forms of PTSD (e.g., high severity of traumatic stress or dissociative symptoms) tend to benefit from initial psychopharmacological treatment. Testimony psychotherapy can be introduced subsequent to reduction of symptoms to a more moderate level.

There are several psychological, somatic, and social conditions that may render testimony psychotherapy ineffective for the individual survivor: severe impairment of thinking and judgment due to a psychotic or affective disorder, severe cognitive deficits due to an organic brain syndrome, substance abuse, preexisting personality disorders that interfere with the establishment of a good working relationship, and serious somatic disorders. On the other hand, there are many survivors who are highly disinclined to seek or accept psychiatric treatment from a clinician but who would participate in testimony psychotherapy in the community.

When survivors are told about testimony psychotherapy, they learn about the history of testimony work with survivors of human rights violations in Chile, the Holocaust, and Bosnia-Herzegovina. It is explained to the survivors that there is a reasonable chance that the procedure will help them to diminish their traumatic stress symptoms. It is also explained 1) that part of the aim of testimony is to counter nationalism and violence and to promote peace, solidarity, and human rights and 2) that these efforts may involve sharing their testimony. The survivor's understanding and accepting this approach are key factors in the development of a working alliance with the therapist that allows the testimony work to begin. The therapist must thoroughly address any concerns that the survivor has about confidentiality or safety before proceeding with testimony.

**Factors Hypothesized to Contribute to the Testimony Method's Clinical Efficacy**

On the basis of our work and the existing literature (1–5), we can further describe some of the special aspects that testimony psychotherapy provides that may account for the clinical improvements in survivors of political violence. These factors can be thought of as relational, integrative, ritual, and social.
What may most distinguish testimony from other forms of psychotherapy is its social aspect. Its explicit aims are to move the trauma story outside of the narrowing prisms of individual psychopathology and the psychotherapeutic dyad and to reframe the survivor's story in the social and historical context where the etiologic factor of state-sponsored violence originally took place. For the survivor, this may be a necessary factor that permits the "entry into meaning" (31), whereby the stories that one tells can address painful and shameful memories and take a strong step in the direction of reconstruction for the self, identity, and sense of connectedness, in relation to the collectives to which one belongs.

Testimony shares with cognitive behavioral approaches many aspects of the relational, integrative, and ritual factors. It seems likely that even though their respective theories draw more attention to differences then to similarities, there are some areas of overlap between testimony and cognitive behavioral therapy, such as interpersonal context, imaginal exposure, narrativization, life history review. It is our impression, however, that most of the refugees in this group would not have agreed to participate in receiving a clinical psychiatric intervention that was divorced from social context and meaning. Thus, the fact that testimony deals with the social dimension while cognitive behavioral therapies do not becomes important as an organizing concept for undertaking the activity in the absence of help-seeking behavior that would otherwise lead to mental health services. One implication is that the group that may be best able to benefit from testimony is precisely a group of survivors who would not be found in a clinic population. Further research in the treatment of PTSD with testimony and cognitive behavioral interventions may try to isolate these factors to understand better their possible impact.

Limitations of This Study and Implications for Future Studies

This was a preliminary study that had a number of limitations. As in other treatment studies of trauma, it focused upon a distinct subject group, which should militate against generalization of findings to other groups. However, the attempt to address the unique aspects of a given group and to see the treatment intervention in a broad context that addresses ethnocultural and sociohistorical factors is consistent with recent recommendations for research (9). This study is also limited because the validity of our study instruments may be affected by linguistic and ethnocultural differences, presenting daunting challenges for the cross-cultural PTSD researcher (32).

Our subject group was composed of individuals who volunteered to give testimony. A larger study with a more representative group, comparison groups (i.e., supportive psychotherapy only versus no intervention), and blind raters is needed to demonstrate and characterize more definitively the clinical effectiveness of testimony therapy. Because we do not believe that testimony therapy should work for all traumatized refugees at all times, we would not consider such broad effectiveness an appropriate aim of investigation. Further studies, however, could help to identify the best conditions for testimony work, in consideration of factors such as age, gender, level of education, types of traumatic events reported, time since trauma, time since arrival in the United States, previous treatments, PTSD and psychiatric comorbidity, past and present use of medications, and follow-up treatments. It would also be valuable to do a comparative investigation of the use of testimony across different recovery environments, such as the United States, Croatia, and Bosnia-Herzegovina.

Last, if clinical research investigations into testimony were conducted along with interdisciplinary ethnographic inquiries, we might better understand the psychological, social, and cultural phenomena at play when survivors tell their stories.

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