

ISSN: 2641-6271

Open Access Journal of Addiction and Psychology

DOI: 10.33552/OAJAP.2019.02.000527



Review Article

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PTSD and Psychosis: A Review

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Received Date: April 16, 2019 Published Date: May 20, 2019

Introduction

Post-Traumatic Stress Disorder (PTSD) is arguably the most debilitating psychiatric disorder among anxiety disorders. It was first recognized by the American Psychiatric Association in the DSM-III in 1980 [1]. This diagnosis remained relatively stable in subsequent DSMs. The DSM-IV-TR indicated that the estimated prevalence of PTSD in the adult population in community-based samples in the USA Is approximately 8%, making it an important public health problem [2]. Although much has been achieved in terms of recognizing the disorder, much advance is needed in terms of optimizing access to health care, fighting stigma, optimizing treatment and improving outcome, including suicide prevention [3-5]. PTSD often presents with multiple and often complex symptomatology, a protracted clinical course, multiple and significant comorbidities and a marked tendency toward chronicity. In the DSM-5, there is recognition that PTSD may also occur as a result of trauma that is not witnessed directly, representing an important step in acknowledging vicarious trauma and its mental health repercussions [6,7]. This paper will focus on a special type of presentation seen in a subpopulation of individuals with PTSD, in the form of psychosis. Although not part of the criteria for PTSD, this subpopulation has puzzled clinicians and researchers for decades and it seems to represent a unique part of a spectrum.

Epidemiology

Trauma-related symptoms have long been recognized in the medical literature under various names (shell shock, combat neurosis) and the initial focus was mainly related to situations of combat and war [8,9]. The emphasis broadened in the recent decades and there is a vast literature related to other forms of trauma. Most individuals exposed to a traumatic experience will have some period of adjustment during which some PTSD-like symptoms may manifest themselves. However, the majority will not develop PTSD [10,11]. The disorder is estimated to occur in approximately 8% of the population according to the DSM-IV-TR and the National Comorbidity Study [12]. The subpopulation at risk

vary according to their likelihood of exposure to trauma. Higher rates of PTSD are observed in survivors of sexual abuse and assault, victims of violent crime, military combat, captivity, ethnically, politically motivated internment, natural disasters and genocide, among others [13-15]. Lately there has been additional attention to police officers, firefighters and first responders as particularly vulnerable due to their occupation [16-18]. Underlying factors such as family support and pre-existing psychiatric diagnosis may influence the development of PTSD. However, PTSD can also develop in individuals with no pre-existing predisposing conditions, particularly if the exposure to trauma is extreme. Even for those individuals who do not fulfill the criteria for the disorder, some symptoms may still occur and persist and cause impairment in function, representing an important subset of the clinical spectrum. In the DSM-5 (2013), PTSD was included in trauma and stressrelated disorders, separate from anxiety disorders [6]. The DSM-5 criteria for PTSD are included in Appendix I.

Clinical Course

The effect of trauma in an individual's clinical presentation and ability to function has been widely recognized in special populations such as concentration camp survivors and combatants early in the medical literature. Extensive follow-up studies have shown severe psychiatric sequelae even 50 years later [18]. Early studies of PTSD cases usually excluded patients with psychotic presentations. From a phenomenological standpoint, however, "combat neuroses" (precursor of PTSD) mimicking schizophrenia have for years been described in World War I and II veterans and Vietnam returnees. Before the inclusion of posttraumatic stress disorder (PTSD) into DSM-III in 1980 (American Psychiatric Association, 1980), veterans with the syndrome were not uncommonly diagnosed with schizophrenia and treated with phenothiazines. It is possible that some of these cases in fact were PTSD with psychosis and not a primary psychotic disorder such as schizophrenia [20]. Later, it was recognized that patients with PTSD could present with delusions



and hallucinations, similar to positive symptoms of schizophrenia [21,22]. In the DSM-IV-TR, it was emphasized the broad timing for the initiation of PTSD symptoms after exposure to the traumatic event (from a few months to years). In a significant proportion of cases, the disorder is characterized by a waxing and waning course. Moreover, it is worth noting that symptoms may be "reactivated" after having been dormant for months to years, upon reminders of the trauma and/or newly occurring trauma [23,24]. In addition, comorbid conditions, such as mood disorders and substance abuse, may influence the presentation, course and outcome of PTSD.

Psychosis and PTSD

Psychosis is currently not part of the criteria for PTSD. However, it presents as a challenge when clinicians try to differentiate these symptoms as part of co-morbidity or as part of a specific clinical subtype of PTSD. Its chronic course, as well as the waxing and waning characteristic of the clinical presentation and at times exacerbation in the context of new trauma poses additional challenge. As previously mentioned, psychotic episodes in the form of positive symptoms have been described in association with PTSD, as well as in the context of psychotic-like dissociative episodes [25,26]. This observation was recognized relatively early in the literature, in conjunction with a diagnosis of substance abuse and other co-morbidities such as mood disorders. Other common co-morbidities not commonly associated with psychotic features include generalized anxiety disorder, panic disorder and phobias, somatization disorder and personality disorders [27,28].

In addition to delusions and hallucinations (classically known as positive symptoms of schizophrenia) in association with PTSD, avoidance symptoms, often presenting as withdrawal, may also resemble negative symptoms of schizophrenia. In a population-based study (N=5,877), a clear association was found between PTSD and psychotic symptoms [29]. The severity of PTSD in relation to psychosis has been controversial and needs further investigation.

In cases of the presence of co-morbidity, it is important to consider that some of the co-morbidities themselves may be accompanied by psychosis, such as a major depressive episode and substance abuse, and do not necessarily signify that the psychosis is an exclusive part of PTSD [30,31].

Contributing to the complex picture of co-morbidity is the fact that individuals with a primary psychotic disorder are also more likely to have a history of exposure to trauma [32,33]. However, the reliability of these accounts, given that psychosis may contaminate the accounts of events, have come into question. Regardless of the accuracy of the accounts, individuals who experience a psychotic episode may suffer from post-psychosis trauma symptoms, related both to the psychotic experience (most notably paranoid delusions, hallucinations, passivity experiences) and hospitalization [34]. Another scenario would be a co-occurrence of a psychotic disorder, which overshadows the diagnosis of PTSD, which developed secondary to a trauma unrelated to the psychosis itself. It has been suggested that unrecognized PTSD may significantly affect the

outcome of patients with psychosis Zimmerman M, et al. [35], as it is the case with various co-morbidities in mental disorder.

An important clinical aspect of PTSD is the high rate of suicidal ideation, suicide attempts and completed suicide [36,37]. The cooccurrence with psychosis may compound the problem. These have important implications for clinical practice, emphasizing the importance of screening for the presence of both disorders in this high-risk population.

Conclusion

The presence of psychosis in the context of PTSD has been described for decades. In the literature, clinicians should be alert to this presentation as one of the following: a) as an integral part of PTSD; b) as a severe form of dissociative phenomena c) as part of a co-morbidity, such as substance abuse and/or a depressive disorder with psychotic features; d) as a primary psychotic disorder such as schizophrenia. In addition, clinicians should consider PTSD as potentially secondary to a psychotic experience, both related to the trauma of the psychosis itself or the process of hospitalization and medical intervention. Further research is needed to elucidate how the association of psychosis with PTSD influences the diagnosis and prognosis, including suicide risk.

Acknowledgement

None

Conflict of Interest

No conflict of interest

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