Does childhood trauma play a role in the aetiology of psychosis? A review of recent evidence.

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Does childhood trauma play a role in the aetiology of psychosis? A review of recent evidence
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Learning Objectives
1. To identify findings from recent meta-analyses on the association between childhood trauma and a range of psychotic outcomes, from non-clinical psychotic experiences to psychotic disorders
2. To consider which childhood traumas are the most potent in the context of psychotic outcomes
3. To recognise that the relationships between childhood trauma, psychotic symptoms and other psychopathology are complex, dynamic and multi-dimensional

“Stress or trauma of some kind is, I believe...a factor in every case of psychosis, and every human being, has, I think, a threshold of vulnerability”
Allan A. MacDougall, The British Medical Journal, December 16, 1939

INTRODUCTION
A key imperative in current psychosis research is the development of an integrated and nuanced understanding of how and why psychotic symptoms emerge and, for a small minority, become entrenched and result in significant social and functional impairment (i.e. disorder). A dynamic range of interrelated factors have been implicated in the activation and perpetuation of psychosis, among which there is growing interest in the role of early childhood trauma. However, with low rates of conversion to psychotic disorder, even among at risk groups, questions still remain about the level of risk conferred by exposure to childhood trauma and the range of potential mechanisms through which such exposure is converted into psychotic symptoms or disorders.

This article is based on our review of reported findings on the relationship between childhood trauma and psychosis. For it, we reviewed papers from the time of publication of a large meta-analysis by Varese and colleagues in 2012 to the time our article was submitted in November 2016. We did not follow the process of a systematic review, so some relevant studies may not be included. Table 1 summarises the key studies that we identified.

THE ASSOCIATION BETWEEN CHILDHOOD TRAUMA AND PSYCHOTIC OUTCOMES
The idea that trauma and stress are implicated in the emergence and persistence of psychotic symptoms and disorders is not new (e.g. Clark 1932, MacDougall 1939) and evidence from a number of recent studies has confirmed that childhood trauma and adversity are associated with a continuum of outcomes along the psychosis spectrum, from non-clinical psychotic experiences to diagnosable psychotic disorders (Arseneault et
In a meta-analysis, Varese and colleagues (2012) examined data on childhood trauma and psychosis from 41 population-based, case-control and prospective studies. For the analysis, they defined childhood trauma as any history of sexual, physical or emotional abuse, neglect, parental death or bullying and outcomes included both diagnostic (i.e. any diagnosed psychotic disorder) and dimensional (i.e. non-clinical hallucinations and delusions) measures of psychosis. The authors found an almost 3-fold (OR 2.79 95% CI 2.34-3.31) increase in the odds of psychotic outcomes among people exposed to childhood trauma. This increased risk was evident across both population-based and clinical case control studies.

A subsequent meta-analysis by Matheson and colleagues (2013) focused specifically on patients with schizophrenia. Its authors found that schizophrenia patients were 3.6 times more likely to have experienced childhood trauma when compared with healthy controls (OR 3.60 95% CI 2.08-6.23). However, when they extended their analyses to include associations between childhood trauma and other psychopathological outcomes, the authors found that, while schizophrenia patients were more likely to have experienced childhood trauma than patients with anxiety, there were no significant differences in rates of childhood trauma between schizophrenia patients and patients with affective psychoses, depression or personality disorders. This finding reflects the real challenge in determining exact pathways that lead from certain childhood traumas to specific psychopathological outcomes, including psychosis.

Most recently, a meta-analysis by Trotta and colleagues (2015) found that exposure to childhood trauma conferred an almost 1.8-fold increase in the odds of hallucination and delusion persistence among general population samples (OR 1.76 95% CI 1.19-2.32) with an over 1.5-fold increase in the odds of psychotic symptom persistence among individuals already diagnosed with a psychotic disorder (OR 1.55 95% CI 0.32-2.77). Although these findings in the studies examined point to the potentially enduring impact that childhood trauma may have on both the emergence and the later evolution of psychotic symptoms, it is important to note that only nine papers met inclusion criteria for the meta-analysis, five of which were general population studies and four of which involved clinical samples. In addition, the authors urge that the findings be considered cautiously on account of a number of methodological issues that may have impacted on reliability of some of the findings of association across the studies examined.

In addition to the individual risk that accompanies the experience of a range of childhood traumas, evidence also supports the hypothesis that multiple or cumulative traumas provide an additive risk effect on psychotic outcomes in both population-based (Shevlin et al. 2011a, Bentall et al 2012, Kelleher et al. 2013a) and clinical samples (Longden et al. 2015, Muenzenmaier et al. 2015). This suggests that individuals who experience multiple traumas are at higher risk of both non-clinical and clinical psychotic outcomes. However, a notable limitation in findings that have addressed the impact of multiple traumas on psychotic outcomes is that most only involve a
crude count of trauma types and therefore fail to incorporate any consideration of subjective impact of these experiences.

**TABLE 1: Meta-analyses on childhood trauma/adversity and psychotic outcomes, 2012-2015**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Year published</th>
<th>Number of studies included</th>
<th>Sample size range</th>
<th>Age range (years)</th>
<th>Type/s of childhood trauma examined</th>
<th>Main findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Varese et al</td>
<td>2012</td>
<td>41</td>
<td>35–17 337</td>
<td>12-78</td>
<td>Sexual abuse, physical abuse, emotional/psychological abuse, neglect, parental death, bullying</td>
<td>Childhood trauma was associated with psychotic outcomes in population-based, clinical and prospective study samples</td>
</tr>
<tr>
<td>van Dam et al</td>
<td>2012</td>
<td>14</td>
<td>64–8 580</td>
<td>12-74</td>
<td>Bullying</td>
<td>Bullying was associated with psychotic outcomes among population-based study samples</td>
</tr>
<tr>
<td>Vassos</td>
<td>2012</td>
<td>4</td>
<td>26–17 389</td>
<td>18+</td>
<td>Urbanicity</td>
<td>Childhood urbanicity was associated with psychotic outcomes</td>
</tr>
<tr>
<td>Bonoldi et al</td>
<td>2013</td>
<td>23</td>
<td>18– 569</td>
<td>16-65</td>
<td>Sexual abuse, physical abuse, emotional abuse</td>
<td>Higher prevalence of childhood sexual, physical and emotional abuse among clinical populations compared to healthy controls</td>
</tr>
<tr>
<td>Trotta et al</td>
<td>2015</td>
<td>20 papers reviewed</td>
<td>71–9 292</td>
<td>Not reported</td>
<td>Sexual abuse, physical abuse, emotional/psychological abuse, neglect, parental death, bullying, life threatening accident, natural disaster, victim of violence, parental conflict, paternal mental disorder, punitive parenting, direct combat experience in war*</td>
<td>Childhood trauma was associated with psychotic outcomes in both population-based and clinical samples</td>
</tr>
</tbody>
</table>

*Meta-analysis also included adult traumas

**PSYCHOTIC SYMPTOMS AND TRAUMA TYPES**

**Childhood sexual abuse**

Across all childhood traumas, childhood sexual abuse has emerged as one of the most potent in the context of psychotic outcomes. With some exceptions (e.g. Longden et al. 2015), a growing number of studies have
demonstrated that child sexual abuse is strongly associated with both non-clinical psychotic experiences and psychotic disorders (Bebbington et al. 2011, Bentall et al. 2012, Daalman et al. 2012, Sheffield et al. 2013, Thompson et al. 2013, Velthorst et al. 2013, Morgan et al. 2014, Ajnakina et al. 2016). Evidence that child sexual abuse confers specific risk for the experience of both auditory (Shevlin et al. 2011a, Bentall et al. 2012, Daalman et al. 2012, Sheffield et al. 2013) and visual hallucinations (Shevlin et al. 2011a) is most convincing. In one large population-based survey in the UK, people who experienced childhood rape were found to be almost 9 times more likely to experience hallucinations than those who did not (OR 8.9 95% CI 1.86-42.44) (Bentall et al. 2012). Conversely, evidence that childhood sexual abuse is a risk factor for paranoia and delusions is equivocal (Bentall et al. 2012, Sitko et al. 2014). However, fewer studies have reported on delusional or paranoid outcomes. In addition, among ultra-high risk samples, childhood sexual abuse is the only trauma that has been found to be associated with transition to psychotic disorder (Bechdolf et al. 2010, Thompson et al. 2013). This finding suggests that childhood sexual abuse may confer specific risk for psychotic symptom persistence and the development of a pathological psychotic disorder.

**Childhood physical abuse**

Like sexual abuse, child physical abuse has been found to be associated with psychotic symptoms in both population-based (Shevlin et al. 2011a, Bentall et al. 2012, Fisher et al. 2012, Beards et al. 2013) and clinical studies (Daalman et al. 2012, Sheffield et al. 2013, Longden et al. 2015, Ajnakina et al. 2016). Among adult population-based samples, those with a history of childhood physical abuse have been found to be up to almost 9 times more likely to experience hallucinations when compared to healthy controls (OR 8.79 [95% CI not reported]) (Daalman et al. 2012). Using data from over 250 medical records in New Zealand, Longden and colleagues (2015) found that childhood physical abuse was associated with hallucinations (OR 2.11 95% CI 1.10-4.47), in particular command hallucinations (OR 3.35 95% CI 1.32-8.50), but not with delusions or paranoia. This is at variance from some previous studies where physical abuse was found to increase the likelihood of experiencing paranoia in both population based (OR 8.52 95% CI 3.55-20.43) (Bentall et al. 2012) and ultra-high risk (OR 3.03 95% CI 1.18-7.79) (Velthorst et al. 2013) samples.

In their study, comparing clinical psychosis patients with one sample that experienced non-clinical auditory verbal hallucinations and a sample of healthy controls, Daalman and colleagues (2012) found higher rates of physical abuse in the non-clinical auditory verbal hallucinations group than in the clinical group, with higher associated odds (8.79 versus 7.44) when compared to the healthy controls. These varied findings on childhood physical abuse raise some questions about the specificity of risk of conferred by childhood physical abuse, both in terms of risk of a pathological outcome and the types of psychotic symptoms experienced.

Among those who have experienced childhood sexual and/or physical abuse, there is some qualitative evidence that the content of their hallucinations and delusions is directly related to their earlier lived experiences of these traumas (Reiff et al. 2012). These qualitative findings are supported by data from a study of individuals at ultra-high risk of psychosis, among whom sexual abuse was associated with more malevolent hallucinatory content. Those within the ultra-high risk sample who reported childhood sexual abuse were 4.5 times (OR 4.5 95% CI
1.30-15.88) more likely to experience perceptual distortions with abusive content among individuals than those with no history of sexual abuse, even after adjusting for other traumas (Velthorst et al. 2013).

Childhood emotional abuse

Although childhood emotional abuse has been identified as a risk factor for psychotic outcomes, reported findings have been both limited and inconsistent. Some studies have found early emotional abuse to be associated with hallucinations (Daalman et al. 2012, Sheffield et al. 2013), with one study finding that emotional abuse in childhood conferred a 6.5-fold increase in the likelihood of experiencing non-clinical auditory verbal hallucinations specifically (OR 6.51 [95% CI not reported]) (Daalman et al. 2012). In both clinical and population-based samples, there is also evidence that there is between a 2- (OR 2.20 95% CI 1.13-4.26) (Longden et al. 2015) and 3-fold increase (OR 3.26 95% CI 1.56-6.81) (Fisher et al. 2012) in the likelihood of experiencing paranoia among people who experienced childhood emotional abuse. Importantly, in one study where childhood emotional abuse was found to be highly correlated with both sexual and physical abuse, it was the co-occurrence of sexual abuse with emotional abuse that drove the association with hallucinations, suggesting that emotional abuse on its own may be less potent in its effect on later hallucinations (Sheffield et al. 2013).

Childhood neglect

As with emotional abuse, data on the impact of childhood neglect are limited. Among population-based studies, childhood neglect has been found to have an association with psychotic experiences generally (van Nierop et al. 2014) and with paranoia specifically (Sitko et al. 2014). Differing findings have emerged from clinical population studies. One Dutch study found that there was an association between childhood neglect and hallucinations among patients with a psychotic disorder (Daalman et al. 2012) while a more recent study from New Zealand found no such association with either hallucinations or any other psychotic symptom type (Longden et al. 2015).

One of the challenges in relation to emotional abuse and neglect is that the parameters of how such experiences are conceptualised and defined vary considerably. In addition, as with other forms of childhood trauma, studies using adolescent or adult samples may be impacted by retrospective recall bias among study participants. Notwithstanding these definitional and methodological issues, with such limited and variable evidence on the impact of childhood emotional abuse and neglect, additional prospective population-based research is needed to better understand on the range psychotic outcomes in both population and clinical samples.

Loss through death and the experience of institutional care in childhood

Although childhood trauma that involves intent to harm (i.e. child abuse) appears to be particularly salient in the emergence and persistence of psychosis (van Nierop et al. 2014), childhood traumas without an explicit intent to harm have also emerged as risk factors for psychosis. There are a number of childhood traumas that involve some degree of loss and a resultant discontinuation in established family and other relationships and/or the home environment. These include parental death and institutional care. Although death of a parent, sibling or friend was not associated with non-clinical psychotic experiences in a large population-based Dutch study (van Nierop et al. 2014), an even larger study of over 900,000 people in Sweden, found that death of a close family member and, in particular death within the nuclear family was associated with psychotic disorders (OR
1.44 95% CI 1.27-1.63) (Abel et al. 2014). This was particularly the case for deaths that occurred during the first three years of life (OR 1.84 95% CI 1.41-2.41) and for deaths from suicide during that phase of the lifespan (OR 2.17 95% CI 1/52-3.08). These findings raise important questions about the mechanisms that are activated during this formative phase of development, a phase of the lifespan that predates verbal memory. It also suggests that early losses that are traumatic for other adult caregivers in an infant’s life may be implicated in the associations found.

Along with loss through death, psychosis has also been found to be associated with the trauma of being separated from one’s parent/s and removed into institutional or foster care. In one clinical study, the experience of living in foster care was associated with verbal hallucinations, paranoia and the negative symptoms of psychosis (Longden et al. 2015). However, in a large population-based study, institutional care was found only to be associated with paranoia with an 11-fold increase in the odds of experiencing paranoia among individuals who had spent time in care (OR 11.08 95% CI 3.26-37.62) (Bentall et al. 2012).

### BOX A: Summary of associations found between childhood trauma and psychotic outcomes*

<table>
<thead>
<tr>
<th>PSYCHOSIS OUTCOME</th>
<th>Any</th>
<th>Cumulative</th>
<th>Sexual abuse</th>
<th>Physical abuse</th>
<th>Emotional abuse</th>
<th>Neglect</th>
<th>Parental death</th>
<th>Institutional care</th>
<th>Bullying</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any psychotic outcome</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Non-clinical psychotic experiences</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Psychotic disorder</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Any hallucinations</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Auditory hallucinations</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Paranoia</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Transition to disorder</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

* Summary only of those studies reviewed for the current paper

### Childhood bullying

The relationship between bullying and psychosis has been the focus of number of recent studies (Fisher et al. 2013, Kelleher et al. 2013a, Wolke et al. 2014, Catone et al. 2015, Valmaggia et al. 2015). In a recent meta-analysis bullying in childhood was found to confer a 2.3-fold increase (95% CI 1.5-3.4) in the odds of experiencing non-clinical psychotic experiences across population-based samples but evidence of any association among clinical samples was inconclusive (Van Dam et al. 2012). The association between bullying and psychotic symptoms has been most evident among non-clinical adolescent samples. Data from two studies in the UK and Ireland respectively found that adolescents with a history of bullying were between 1.5-times (Fisher et al. 2013)
and 3-times (Kelleher et al. 2013a) more likely to report non-clinical psychotic experiences than those who did not. In the latter study, a bi-directional association between bullying and psychotic experiences was found, highlighting a dynamic relationship between these experiences. However, by controlling for the presence of psychotic experiences that pre-dated any experiences of bullying, the study was able to confirm an association between bullying and new incident psychotic experiences with a dose-response effect. Findings from this study therefore point to the potential of a causal relationship between the experience of being bullied and the emergence of psychotic experiences in youth populations. Of particular clinical relevance was a finding by Kelleher and colleagues that the cessation of bullying was associated with a reduction in psychotic experiences at 12-month follow up. This important finding suggests that efforts to halt experiences of bullying could be protective against the persistence of psychotic experiences in young people.

CHILDHOOD TRAUMA AND PSYCHOSIS: SPECIFIC OR GENERAL EFFECTS?

The weight of recent evidence clearly implicates early a range of childhood traumas in the genesis and evolution of both non-clinical and clinical psychosis trajectories. This association is evident across both hallucination and delusional phenomena in both population-based and clinical samples (see Box A). However, findings of association do not prove causation. In addition, childhood trauma has also been found to be associated with a range of other disorders, including depressive disorders (Heim et al. 2008, Kessler et al. 2010), anxiety disorders (Heim and Nemeroff 2001) and personality disorders (Afifi et al. 2011, Klein et al. 2015, Velikonja et al. 2015). Furthermore, psychotic experiences themselves are also associated with a range of other non-psychotic psychopathology (Kelleher et al. 2012, Schroeder et al. 2013, Fusar-Poli et al. 2014, Bortolon and Raffard 2015, McCarthy-Jones and Longden 2015, Upthegrove et al. 2015a). Of particular relevance to this review is the association between psychotic symptoms and post-traumatic stress disorder (PTSD) (e.g. Mueser et al 2002, Kilcommons and Morrison 2005, Read et al 2005, Shevlin et al 2011b). From a clinical perspective, the evidence seems to suggest that both early trauma and psychotic symptoms have transdiagnostic relevance rather than being predictive of any specific psychopathological outcome. This highlights the diagnostic and treatment challenges that accompany complex clinical presentations involving early trauma where such experiences are likely to be interacting synergistically with a myriad of other factors and disorders to result in psychotic outcomes.

The role of biological and cognitive mechanisms

One of the dominant current perspectives on the aetiology of psychotic disorders is that of a complex gene-environment interaction that influences both the emergence and the persistence of psychotic symptoms over time (Van Os et al. 2008, Van Os et al. 2009, van Os et al. 2010). From this perspective, no single pathway is seen as responsible for the range of psychotic phenomena that individuals experience (Bentall et al. 2014). Rather, it is a dynamic interplay between genetics, epigenetics, exposure to childhood trauma, and the experience of sub-optimal environmental factors that cause the activation and later pathologization of psychosis (Millan et al. 2016). In relation to early trauma and adversity, existing evidence supports the view that exposure to stress, including childhood trauma, maltreatment and living in sub-optimal environmental conditions, can affect human brain (Seo et al. 2014), biological (McEwen 2000, Hayes et al. 2014), social (MacDonald et al. 2000), cognitive (Kelleher et al. 2013b, Aas et al. 2014) and emotional development. Certain permutations of these exposures
and their effects may sensitise certain individuals to become more vulnerable or prone to hallucinations, delusions and psychotic disorders (Van Os et al. 2009, van Os et al. 2010). Along with any pre-existing genetic loading (Van Os et al. 2008), it is the experience of repeated exposure to multiple risk factors from the pre-natal to the early adult years that may place individuals at highest risk for progression to pathological manifestations of psychosis (Millan et al. 2016). Among those with exposure to stress in childhood and/or the emergence of early non-clinical psychotic experiences, additional exposure to stress during the adolescent years and into young adulthood could play a key role in activating the transition to pathological psychotic outcomes, with the resultant social, emotional and functional consequences that generally accompany diagnosed psychotic disorders.

**Psychodynamic perspectives**

From a psychodynamic perspective, the experience of psychosis has long been conceptualised as a defence against unbearable or unmanageable emotions (Martindale and Summers 2013) and psychotic symptoms are understood to have meaning in the context of people's lived experiences (Martindale 2007). In some recent studies, for example, the content of psychotic experiences has been found to reflect specific aspects of traumatic and adverse life experiences among both high-risk and clinical populations (Reiff et al. 2012, Velthorst et al. 2013). Recently, the growth of the hearing voices movement and the rejection by some of the assumption that psychotic experiences are inherently pathological, have also resulted in the development of new theories about the mechanisms and meaning of auditory verbal hallucinations (AVHs) in particular. For example, in their extensive review on AVHs, Longden and colleagues (2012) propose that AVHs may be understood, not necessarily as symptoms of a psychotic disorder, but as unconscious dissociative responses to the experience of trauma (Longden et al. 2012), a protective mechanism through which individuals cognitively and affectively disconnect from traumatic events that they are unable to process (Foa and Hearst-Ikeda 1996). Given that dissociation has been associated with both trauma and with AVHs in both clinical and non-clinical samples, Longden and colleagues argue that the conceptualisation of AVHs as a dissociative response to stress and trauma offers a superior explanation of these phenomena (Longden et al. 2012). To advance any psychodynamic and developmental understanding of these phenomena and their relationship with early experiences of adversity and trauma, a number of authors have recently called for the use of qualitative research designs to develop a more nuanced and refined understanding these complex human experiences (Longden et al. 2012, Corstens et al. 2014, Humpston 2014, McCarthy-Jones et al. 2014, Upthegrove et al. 2015).

**CLINICAL IMPLICATIONS (see Box B)**

**Child and adolescent mental health settings**

In the child and adolescent mental health setting, determining whether or not a child or adolescent has history of trauma must remain as a central feature of assessment. As a matter of course, every child presenting with any such history should also be routinely screened for psychotic experiences. Importantly, it cannot be assumed that children and adolescents who are or who have experienced psychotic phenomena will volunteer that information during an assessment. Most children and adolescents often only disclose these experiences when specifically asked about them. In addition, while many of the hallucinatory and paranoid phenomena that children and adolescents report do not meet the threshold criteria for frank psychotic symptoms, their
experiences may still have clinical relevance on account of the association between such sub-clinical psychotic experiences and other forms of psychopathology in adolescents (Kelleher et al. 2012). It is also important not to assume that young people with a primary presentation of depression, anxiety or personality disorder are not also experiencing some form of hallucinations or delusions.

Although limited, with some evidence to suggest that the cessation of traumatic events in the adolescent years can result in a reduction of psychotic experiences (Kelleher et al. 2013a), it is important to consider the range of possible interventions that could impact on current traumas among those children and adolescents presenting with psychotic symptoms. These could include family-based intervention, school-based intervention or referral to external agencies if there is evidence of any form of abuse. Notwithstanding the concerning absence of trauma-focused therapy research for young people who report childhood trauma and psychotic experiences, therapies that address the emotional impact of any experiences of trauma, that promote self-esteem and that support the development of positive coping mechanisms also ought to be considered and offered.

![BOX B: The Psychotic Symptoms Early Trauma Checklist (CAP)](The CAP Psychotic Symptoms Early Trauma Checklist, Coughlan & Cannon 2016)
Adult mental health settings

It is important to routinely assess for both childhood trauma and psychotic symptoms among individuals who present to adult mental health services. In adult mental health services, the management of psychotic symptoms is often the dominant therapeutic goal, usually with a reliance on psychotropic medication for symptomatic control or recovery. Once symptoms have stabilised, efforts frequently then turn to occupational and functional recovery. In reality, for many adults with psychosis, little or no consideration is given to the potential origins of their psychotic symptoms, including their potential experiences of childhood trauma. Given the vulnerability of some patients, clinicians can be cautious about exploring past traumas with their patients, and patients with psychosis may be denied the opportunity to talk about or explore the impact of those experiences during their engagement with mental health services.

In recent years, there has been a call for clinicians to consider the potential benefit of psychologically-oriented trauma-based therapies (McCarthy-Jones and Longden 2015). These include Eye-Movement Desensitisation Reprocessing (EMDR) (van den Berg et al. 2015), cognitive-oriented trauma-focused therapies (McCarthy-Jones and Longden 2015) and therapies such as mindfulness (Peters et al. 2016), for which there is an emerging evidence base that these therapies can be well tolerated by patients with psychosis and have therapeutic benefit. In light of these findings, there is a case for the development of targeted, evidence-based trauma-focused therapies within adult mental services that are considered as a potential intervention for all psychosis patients. Expanding the suite of therapeutic interventions to patients with psychosis to include interventions that address a history or trauma may therefore be a key factor in enhancing the symptomatic, emotional, social and functional trajectories of those individuals for whom trauma has been a factor in the emergence of their symptoms. This would, of course, necessitate that mental health services be sufficiently resourced to recruit and/or train sufficient numbers of clinical staff to provide such interventions.

SUMMARY & CONCLUSION

Emergent findings from this review suggest that a] there is a dynamic interplay between childhood trauma and other exposures and risk factors; b] the role of childhood trauma needs to be considered across the continuum of psychotic outcomes and in the context of a range of psychopathological trajectories and outcomes; and c] psychopathological outcomes associated with a history of childhood trauma are often multi-dimensional and do not fit within traditional diagnostic classifications. From a clinical perspective, the complexity of the relationship between childhood trauma, psychosis and other psychopathology means that precise aetiological models for the spectrum of psychotic symptoms and disorders remain elusive. The same is true for predictive models regarding the transition from early experiences of hallucinations and delusions to later psychotic disorders. Notwithstanding these issues, screening for childhood trauma and psychotic symptoms may help in the early detection of potentially high risk individuals. In addition, developing and offering targeted psychotherapeutic and other interventions to reduce the potential impact of early experiences of trauma must remain an important clinical goal in reducing the incidence and subsequent impact of psychotic disorders and other psychopathology.

DECLARATION OF INTERESTS:

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