Intergenerational Transmission of Inequality in Psychological Health¶

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¶ This work is with a commentary in the same issue.

Intergenerational transmission explains the continuity in behavior and personality of individuals across generations due to genetic as well as non-genetic causes. Both determinants affect individuals and increase their susceptibility to develop psychological health problems similar to the ones experienced by their parents. Psychological health of offspring is impacted by their parents’ mental illness which causing children to be unable to adequately and positively contribute to their children’s healthy development. Extensive literature review depicts intergenerational transmission of various psychological conditions ranging from PTSD, depression, anxiety, conduct issues or even schizophrenia, among many others. Proposed models offering explanation of Intergenerational Transmission point towards social learning theories, attachment theories, psychodynamic theories and Integrative theories which mentions an overlap between genetic and environmental factors to explain the transmission. Intervention strategies of early detection and intervention, working with the affected parents and including family in therapy have been discussed. Working on the parent-child relationship, building resilience, promoting building up of protective factors is also mentioned as intervention techniques. Finally, some limitations and directions of future researches have been proposed.

Keywords: Intergenerational transmission; Intergenerational trauma; Mental illness; Psychological health


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Introduction

Intergenerational transmission delineates a continuity across generations with respect to behavior and other personality characteristics. This transmission across generations can be a result of genetic factors (e.g., traits are transmitted from parents to children), a result of environmental factors or due to a complex interaction of both. This transference of characteristics may affect the same trait across generations, or may affect various different traits (1).

Parenting patterns and styles along with parental psychopathology have an impact of the behavior and individual characteristics possessed by the offspring. These characteristics are transmitted across the generations and are so pervasive influencing a number of factors likely to be ranging from biological
factors of health or body type, socioeconomic, cognitive (like education and consequently their academic accomplishments), and even psychological factors, e.g., personality or vulnerability to mental illnesses.

These intergenerational patterns of behavior may result in social disadvantages and also impact their health status (2, 3). The offspring may be at a greater risk for experiencing and developing internalizing disorders like depression or anxiety or bipolar disorders (4). They may face issues like Post Traumatic Stress Disorder (5, 6), childhood conduct issues (7) etc. Mental health issues subsequently affect the growth in the social status of the individual as the illness may prevent the individual from attaining social class that they could have achieved (8). Therefore this reciprocal causation ensures that the disadvantaged groups of individuals are caught up in the loop, according to Anderson (2).

The current paper draws from the various empirical, meta-analysis and review research articles written, to expand our knowledge and understanding about the Intergenerational Transmission (Table 1). Researchers conducted with respect to mental health are explored to assess the current level of knowledge and also understand the scope for future research. An extensive review of literature was conducted on intergenerational transmission of inequality in psychological health using various search engines like Google Scholar, Pubmed, Psycinfo, Researchgate, APA Psycnet etc. The keywords used in literature search were intergenerational transmission, intergenerational trauma, and intergenerational transmission in mental health, psychological issues and their intergenerational transmission, Inequality in mental health, intergenerational transmission & inequality etc. Research papers written in English language and mostly from 2000 till the present time were included. In order to systematically analyze the data and draw meaningful inferences from it, qualitative content analysis was employed.

**Intergenerational Transmission of Trauma**

The intergenerational trauma increases vulnerability to mental health issues. It is referred to as ‘Transgenerational Trauma’ due to its characteristic of being transmitted from one generation to another (9). And it may also be addressed as ‘Historic Trauma’ as it may affect a number of individuals of a specific cultural group (10). The Intergenerational Trauma alludes to the cycle of transmission of trauma from parents to offsprings leading to the experiences of traumatic events by the second generation, despite not being directly exposed to the incident (11). The transmission is known to be unintentional and accidental and often without a conscious awareness of its link with the original traumatic incident (12). Research studies have shown that offsprings of individuals who survived the Holocaust during World War II and had not witnessed the atrocities of the incident firsthand but had heard the narratives of incidents of their parents, had risks to experience PTSD, troubles with interpersonal relationships & functions, difficulty in sensing individuality and an elevated sensitivity to stressful life situations, anxiety and depression. But at the same time, they also experienced and displayed more resilience and cultural strength (5, 6).

This increased vulnerability is considered due to successive generations learning the behavior and thinking patterns of their parents or caregivers as the children may replicate the parents’ adaptation strategies to the trauma, or the exposure to the secondary environmental and psychological effects of these adaptations (13). Trauma leads to the caregivers displaying unpredictable and inconsistent affective reaction to the offspring (14). This, in turn, leads to dissociative difficulties or mood and even behavioral symptoms in the next generation (15, 16). Adults may also be unable to adequately respond to their children due to the physical and psychological injuries that they have sustained after surviving the trauma and this may lead to child abuse or even neglect (17). Trauma experiences are also transmitted through the attachment styles within the family that the child has with their caregivers (14). Consequently, sustained traumatic stress, domestic violence, childhood abuse, complex trauma, or any other event or experience occur resulting in long-term effects, as evidenced by almost identical traumatic stress response activation and altered perceptions of trust, safety, worldview, and self in the next generation (15). Thus, we can say that the magnitude of the parent’s trauma and the stress from the economic disadvantages they have to face make it difficult for the parents to provide a supportive, nurturing atmosphere during early years of the child’s life and increase the likelihood to intergenerational transmission of adverse childhood experiences and chronic stress for the offspring (18).

Indigenous communities have also always been on the receiving end multigenerational trauma as they have gone through traumatic events in the past which have also been aggravated by years of structural inequality (19). These communities have been exposed for several years to oppression and psychological trauma in addition to repeated violation of their basic human rights, systemic discrimination and loss of their cultural heritage (10, 20). Disparity and disproportionality also exist among wellbeing and health of the indigenous and non-indigenous communities. This is a consequence of the direct social determinants related to colonization, marginalization, intergenerational trauma and inability of the governing bodies to address the inequalities existing within the health sector (21). Many of the Aboriginal communities suffered from death, slavery, being forced out of their homelands, tortured for practicing and propagating their culture, being torn away from their families and children (22). Individuals living in these communities went through genocides, underwent relocations or displaced from their homeland led them to experience what Davoine and Gaudilliere (23) described as ‘frozen trauma’ that existed in the past but can also be experienced in the present. Eisenbruch (24) while working with refugees gave the term ‘cultural bereavement’ which is defined as the experience of ‘uprooted person or group resulting from loss in identity’ which may trigger a sense of guilt for abandoning culture and homeland.

Children within these communities are also impacted by the intergenerational transmission of trauma. It is conspicuously shown that children exposed to violence within their family experience trauma related behavior similar to children’s acts of war-affected countries (25). Insana et al. (26) said that two-third of the children who have had to witness violence within the families have sleep issues, frequent nightmares and these children also show deficient adaptive functioning. Such impacts are likely to induce behavioral & emotional problems, anxiety dis-
<table>
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<tr>
<th>Author</th>
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<th>Limitations</th>
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<tr>
<td>O’Neill et al.</td>
<td>Hidden Burdens: a Review of Intergenerational, Historical and Complex Trauma, Implications for Indigenous Families</td>
<td>2018</td>
<td>Psycho-sociocultural effects, Intricacy &amp; interaction between intergenerational trauma, epigenetics and the influence on one’s culture are discussed.</td>
<td>Content analysis made the process tedious and time consuming, lacking a theoretical basis being a reductive approach.</td>
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<td>Kirmeyer et al.</td>
<td>Rethinking Historical Trauma</td>
<td>2014</td>
<td>Reflected on suffering from intergenerational trauma, ongoing structural violence &amp; how historic trauma impacts mental health of communities.</td>
<td>Limited information provided about the methodology followed for inclusion, screening and analysis of literature.</td>
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<tr>
<td>Kim et al.</td>
<td>Intergenerational Transmission of Internalising and Externalising Behaviours Across Three Generations: Gender-Specific Pathways</td>
<td>2009</td>
<td>Gender specific mechanism of intergenerational transmission of externalizing and internalizing behavior.</td>
<td>Mediation factors that contribute towards poor parenting skills were not considered.</td>
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<td>Hammen et al.</td>
<td>Intergenerational Transmission of Depression: Test of an Interpersonal Stress Model in a Community Sample</td>
<td>2004</td>
<td>Interpersonal Stress Model of transmission of depression, maternal depression to interpersonal stress, social functioning &amp; diagnosing depression in offspring.</td>
<td>It included nonclinical material samples with subthreshold symptoms &amp; diagnosed cases of youth depression.</td>
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<td>Jafee et al.</td>
<td>Early-onset and recurrent depression in parents increases risk of intergenerational transmission to adolescent offspring</td>
<td>2020</td>
<td>Assessed increased vulnerability of depression in adolescents with parents diagnosed with an early onset and recurrent course of depressive disorders.</td>
<td>Since the children were assessed for depression at age 15, therefore little is known about the onset and course of their condition.</td>
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<tr>
<td>O’Reilly et al.</td>
<td>The intergenerational transmission of suicidal behavior: an offspring of siblings study</td>
<td>2020</td>
<td>Similarities in suicidal acts between parents and offspring, impact of shared genetic factors, parental behavioral health problems &amp; environment on transmission.</td>
<td>Assessed such acts in children before 18 years of age, no further investigation on vulnerable age ranges during adolescence.</td>
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<td>Mackenzie</td>
<td>Intergenerational transmission of anxiety: The influence of parental anxiety on child-related information processing biases</td>
<td>2011</td>
<td>Focused on transmission of anxious behavior in children due to parental anxiety and its association with their information processing biases.</td>
<td>Causality could not be established as the study was cross-sectional and correlational.</td>
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<td>D’Onofrio et al.</td>
<td>Intergenerational Transmission of Childhood Conduct Problems: A Children of Twins Study</td>
<td>2007</td>
<td>Familial transmission of conduct problems, environment mediating the transmission in male offspring &amp; genetic issues in the female offspring.</td>
<td>Randomly drawn from the community reduces chances of including participants with extreme conduct or antisocial personality disorders.</td>
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<tr>
<td>Tzoumakis et al.</td>
<td>Female Juvenile Delinquency, Motherhood, and the Intergenerational Transmission of Aggression and Antisocial Behavior</td>
<td>2012</td>
<td>Mothers of delinquents were likely to face social adversities, use substance during pregnancy and offended during adulthood &amp; also had an early onset of physical aggression among their children.</td>
<td>Small sample size &amp; also a lack of access to previous criminal or medical records of the mothers and therefore, information could not be corroborated.</td>
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<td>Alyott et al.</td>
<td>Like father like daughter: sex-specific parent-of-origin effects in the transmission of liability for psychotic symptoms to offspring</td>
<td>2018</td>
<td>Showed psychotic symptoms more common in female offsprings of affected fathers and male offspring of affected mothers suggesting a X-chromosome linked genetic transmission.</td>
<td>Included an unequal ratio of fathers and mothers as participants with some information about the diagnosis of biological parents of the children not being reliable.</td>
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<tr>
<td>Kerr &amp; Capaldi</td>
<td>Introduction to the Special Section on the Intergenerational Transmission of Risk for Substance Use</td>
<td>2020</td>
<td>Parental substance use during adolescence and its transmission in their children; sheds light on prevention reducing effects of intergenerational transmission.</td>
<td>Offer insight on theoretical and methodological advances in intergenerational transmission of substance use.</td>
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<td>Nepp et al.</td>
<td>The Intergenerational Transmission of Harsh Parenting, Substance Use, and Emotional Distress: Impact on the Third-Generation Child</td>
<td>2020</td>
<td>Parents’ problems (G1) led to alcoholism &amp; emotional distress in their children (G2) predicted a harsh parenting style by (G2) in early onset of aggression in the offsprings (G3).</td>
<td>The study sample had not adequately representative of the population and this decreased the generalizability of the results.</td>
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<tr>
<td>Higgins et al.</td>
<td>Offspring of parents with chronic pain: a systematic review and meta-analysis of pain, health, psychological, and family outcomes</td>
<td>2015</td>
<td>Parents with chronic pain was linked to higher externalizing and internalizing symptoms, decreased social competence and family outcomes in their children.</td>
<td>The given study could not evaluate the quality of primary researches that were included.</td>
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<tr>
<td>Stone &amp; Wilson</td>
<td>Transmission of risk from parents with chronic pain to offspring: an integrative conceptual model</td>
<td>2016</td>
<td>Identified genetic, neurological, social learning-related mechanisms responsible for transmitting risk of chronic pain behaviour from parents to offsprings etc.</td>
<td>Failed to evaluate quality of primary researches included in the review, but very diverse studies were included.</td>
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<td>Goodman &amp; Gotlib</td>
<td>Risk for Psychopathology in the Children of Depressed Mothers: A Developmental Model for Understanding Mechanisms of Transmission</td>
<td>1999</td>
<td>Proposes an integrative model explaining risk factors in offspring of mothers with depression with heritability, neuropsychology, negative maternal attitudes and general life stressors. The study displays a lack of broad, in-depth investigation into the genetic and environmental causes contributed towards transmission of risk.</td>
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<td>Kellermann</td>
<td>Transmission of Holocaust Trauma—An Integrative View</td>
<td>2001</td>
<td>Proposes psychodynamic, sociocultural, family system &amp; biological models on transmission of trauma across generations. Fails to delve into the developmental history of individuals.</td>
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<td>Wickrama et al.</td>
<td>Early Adversity and Later Health: The Intergenerational Transmission of Adversity Through Mental Disorder and Physical Illness</td>
<td>2005</td>
<td>Investigated processes of transmitting illnesses &amp; found disruptions in normal development during transition to adulthood mediated intergenerational continuity. Sample for the study was not adequately representative of the study population.</td>
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<td>Boursnell</td>
<td>Parents With Mental Illness: The Cycle of Intergenerational Mental Illness</td>
<td>2011</td>
<td>Showed childhood trauma-caused mental illness of parent’s damaged effective parenting. But, did well in breaking the transmission of mental illness &amp; abuse when offered intervention. The qualitative research pattern and a very small sample size decrease generalizability of the results.</td>
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<tr>
<td>Isobel et al.</td>
<td>Preventing intergenerational trauma transmission: A critical interpretive synthesis</td>
<td>2019</td>
<td>Intergenerational transmission of trauma via attachment &amp; offered prevention, resolving parental trauma &amp; supporting parent-child attachment for intervention. The systematic review used the critical interpretative synthesis (CIS) which lacks transparency in data analysis.</td>
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<tr>
<td>Yap et al.</td>
<td>Modifiable parenting factors associated with adolescent alcohol misuse: A systematic review and meta-analysis of longitudinal studies</td>
<td>2017</td>
<td>Identified factors of risks, protection and a range of modifiable parental factors associated with alcohol use/ misuse by their adolescents. The meta-analysis could not be free from researcher’s bias regarding the inclusion or exclusion of the literatures for being selected.</td>
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<td>Hatch et al.</td>
<td>Family Social Support Buffers the Intergenerational Association of Maternal Adverse Childhood Experiences and Preschoolers’ Externalizing Behavior</td>
<td>2020</td>
<td>Observed how maternal family social support buffering adverse childhood experiences of the mother and externalizing behavior of the child. Causality could not be established as the study design was cross-sectional.</td>
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<tr>
<td>Branje et al.</td>
<td>Intergenerational transmission: Theoretical and methodological issues and an introduction to four Dutch cohorts</td>
<td>2020</td>
<td>Cohort studies explored genetic &amp; other factors &amp; psychopathologies across generations. Also offer insight into the methodological challenges. The longitudinal and cohort study designs are not time- and cost-effective.</td>
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<tr>
<td>Babcock Fenerci et al.</td>
<td>Intergenerational Transmission of Trauma-Related Distress: Maternal Betrayal Trauma, Parenting Attitudes, and Behaviors</td>
<td>2016</td>
<td>Described how externalizing and internalizing symptoms can be observed in children of mothers with a history of childhood abuse and betrayal trauma. Causality could not be established as the study design was cross-sectional.</td>
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<tr>
<td>Griffith et al.</td>
<td>How colonisation determines social justice and Indigenous health—a review of the literature</td>
<td>2016</td>
<td>Colonial injustice, inequality, prejudice, racism, discrimination etc in health experience indigenous communities through trauma. The publications chosen were the ones only conducted in Australia &amp; hence findings will have limited generalizability.</td>
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orders by adulthood as well as PTSD.

**Intergenerational Transmission Affecting Mental Health**

While we have extensively discussed the intergenerational transmission of trauma and its consequences, a number of other psychiatric condition also have to been observed to be transmitted across generations. A number of extensive researches have been conducted to understand the transmission of various internalizing and externalizing disorders. Evidences show that internalizing disorders in the child are generally linked to maternal issues while externalizing disorders have a link with the paternal factors (27). A study by Kim et al. (28) investigated three generations across a time span of 20 years to observe the effects, transmission and gender pathways of both internalizing and externalizing behavior in parents and its effects on their offsprings. Results showed that the mother’s internalizing symptoms had a strong effect on similar symptoms in the children across the three generations, irrespective of the child’s gender. The father’s externalizing behavior could be predicted by the grandmother’s internalizing as well as externalizing behavior. Furthermore, female children’s internalizing and exter-
nalizing behavior could be predicted by their father’s corresponding behavior.

A study by Hammen et al. (29) mentioned a link between Depression among mothers and their interpersonal stress affecting quality of the parenting towards their offsprings. In effect, it predicted poor social functioning, chronic interpersonal stress and depression in the children by adolescence. Jafree and others (30) reported that an early onset and recurrent course of depression among parents increased the risk of major depressive disorder in the adolescent by 4.21 times. An association has also been observed between suicidal behaviors in the parents leading to a similar behavior displayed by their children. Children of mothers who attempted or died of suicide were at 2.74 times increased risk of attempting suicide themselves (31). In addition to heritability and genetic factors (32, 33), close contact with parents with suicidality (32, 34), bereavement after death of parents (35, 36), negative or hostile parenting styles (37, 38), disorganized and chaotic home environment (33, 39) are observed to be the risk factors for transmission of suicidality from parents to offsprings.

Much research has also been conducted to know about the intergenerational transmission of anxiety from parents to children (40). Anxious parents, through their interaction style and behavior, influence the development of anxious information processing bias in their offspring (41). Daleiden and Vasey (42) explained the consequence of this bias as the child’s increased susceptibility to be selective by focusing only on threatening stimuli in the environment, attributing ambiguous facts as frightening, always expecting something negative to happen to them and also expressing an inadequacy to effectively deal with a stressful situation.

An intergenerational association has also been studied extensively between conduct issues in the parents and its transmission to their children (43). While research evidences show a high genetic liability of transmission of conduct disorders in female children, for male children a bigger role of environmental factors in the intergenerational transmission has been observed. The probable causes for this have been identified as assortative mating among the generation of the parents for conduct related issues (44), a lifetime prevalence of other psychiatric condition in the parents, or the demographic factors of the family (45). Divorce among the parents (43) or strict and abusive parenting styles (46) are also observed to lead to conduct issues in the male children. An early onset of behavior is also related with neurodevelopmental issues in the child (47). Early onset of physical aggression and an overall high antisocial behavior were also observed in offsprings of mothers who were involved in delinquent behavior as juveniles. Factors responsible for the transmission were social adversities, sociodemographics (48), exposure of substance during perinatal period (43), or criminal involvement as in adult (49, 50).

Researches related intergenerational transmission of psychosis depict a sex-specific contribution on early onset of symptoms from parents to children. It has been observed that psychotic symptoms were more common among the female children when their fathers also had psychotic features and conversely, symptoms in the male child were linked to maternal possession of psychotic symptoms. A genetic transmission linked to the X-chromosome was observed to be the etiological factor for the transmission across generations (51). Research evidences on transmission of Schizophrenia spectrum disorder also point towards a major role of environmental factors, in addition to the genetic susceptibility. Low socio-economic conditions, a chronic course of parent’s illness (52), pre- or perinatal maternal infections or other complications (53), physical maltreatment of emotional abuse of neglect during childhood (54), immigrating to a different place (55), cannabis use by mother during pregnancy, paternal age or season of birth are some of the environmental factors associated with intergenerational transmission of schizophrenia-like symptoms to the children (56).

Research evidences also point towards an increased risk of substance use in offsprings due to intergenerational transmission (57, 58). Provision of alcohol by parents for the adolescent (59), alcohol use by parents, relational factors of the parent-child relationship (60), family conflict and positive attitudes of parents towards alcohol use (61) are some of the identified risk factors for alcohol use among offsprings of children with parents with a history of substance use. Transmission from parents to offsprings has also been reported in certain cases of chronic pain conditions (62). According to Higgins et. al. (63) children of parents with such pains report higher vulnerability to depressive and anxiety symptoms, poor social skills, increased complaints of pains and lower levels of self-esteem than children of parents who do not report such chronic pains. A proposed model for this transmission mentions the causal factors as genetic, neurological, social learning of the pain related behavior, parenting style and health of the family as well as the environmental stressors (64).

Recently, researchers have aimed to attempt to ascertain the influence on the structural and functional brain structures due to intergenerational transmission and study that how are networks preserved over generations and it was observed that functional connectivity and grey matter volume is heritable and one of the factors responsible for the transmission (65).

Models Explaining Intergeneration Transmission

Several theoretical frameworks have been proposed to explain the transmission of coping strategies and behavior that lead to enhanced susceptibility of mental health issues across the generations. Genetic and environmental factors are intertwined and play a key role in explaining intergenerational transmission of psychopathology (1). According to the social learning theory, parents may display maladaptive behavior, later imitated by the offspring through modeling (66). According to the Attachment theory of James Bowlby (67), the child’s early experiences with their parent impact and shape the internal working models in all their relationships, as well as impact their future relationships and behavior. This theory too can explain intergenerational transmission as the child may adapt incongruent coping styles and behavior due to early interactions with their caregivers which may lead them towards mental health-related complications. Capsi et el. (68) spoke about ‘intergenerational continuity’ suggesting that the collective effect of an individual’s environment which remains continuous across generations, results in the reinforcements of behavior and patterns of interaction encouraging and maintaining the behavioral patterns across the course.
of people’s lives and next generations as well. Since individuals share the same economic, social, physical as well as cultural conditions, personality traits and behavior are also repetitive.

Goodman and Gotlib (69) gave the widely known integrative model of transmitting risk from parents with depression to their offspring/s. The model talks about both environmental and biological factors and bidirectionality in the impact of transmission. This essentially means that while the behavior of the children is affected by the parents, the child’s behavior also has a direct impact on that of the parents (70, 71). Therefore, the system of transmission of vulnerability relates to and overlaps with each other. The other risk factors mentioned are parental depression (72), both parents having depression (73), chronicity and high severity of parents’ illness (74-76), difficult child temperament (77, 78), female gender of the child (79, 80) and social cognitive and intellectual deficits. There are also a number of non-specific factors like child abuse or poverty acting as risk factors for children to develop other psychiatric conditions too, in addition of depression (79) and therefore, the treatment plan should aim at tackling both specific and non-specific factors (81, 82).

The determinants of mechanisms for transmission in this model are heritability (83), innate dysfunctional neuroregulatory mechanism (84, 85), exposure to mother’s maladaptive attitudes (86) and environmental stress (79) increasing the vulnerability of children and psychopathological consequences.

Kellerman (87) explained the transmission of trauma across generations through the psychodynamic model stating that the unconscious displacement of emotions that are transferred through the interpersonal relationships the child has with their parents. This leads to an unconscious absorption of repressed experiences of parents by the child and consequently, an differentiated development of self and others. He also spoke about the family systems model which explained that an ambiguous verbal and non-verbal communication patterns within the family lead to a secrecy’ of unspoken experiences of the offspring and robustly creates troubles for the child in separation and differentiation from their parents’ and their own experiences.

**Which Generation is the Worst Affected?**

The consequences of intergenerational transmission along with inequality badly influence adolescents and children towards mental illness. The adverse conditions of family may lead to the adolescents with decreased psychological resources to feel a sense of being trapped, anger, hopelessness, or frustration (88). Psychological issues of parents may cause rejection or hostility, or a decrease in parental involvement or commitment to children. These parental behavioral issues may push the child towards more complicated mental health issues (89). A research study by Wickrama et. al. (90) depicts that the children experiencing undesirable psychological issues during early years of life are exacerbated during transition to adulthood as the individuals may feel socially, emotionally and also financially unprepared to face the challenges and responsibilities to be born now (91). They may also be unable to acquire the adequate social and educational skills and receive less social support, further putting them in a place of disadvantage. All these may disrupt their healthy developmental processes and result into feeling ‘trapped’ in self-perpetuating cycle and experiencing adversity due to family conditions. So much so, it can also lead to a poor health status and this distress and inequality may get accumulated over time in their life and get transmitted to the next generation (90).

**Prevention and Intervention of Intergenerational Transmission in Mental Health**

There has been a dearth of research in this context. Curran et. al. (92) believed that mental illness creates a cycle of trauma and adversity for the family. This may lead further to persistence of inequality experienced by the affected individuals, and ensures their suffering from generation to generation while stays in similar conditions and issues. Boursnell (93), therefore, talked about ‘breaking the cycle’ to a crucial step towards redemption. Sadly, the role of the family pertaining to such course of illness and its treatment is resisted in the mental health fields (94). Individuals with intergenerational trauma generally tend to approach mental health workers personally, seeking help for their trauma like symptoms but lacking the knowledge of association between their presently experienced symptoms and the trauma they or their families experienced in the past. They may also lack the ability to verbalize their emotions and thoughts (95). While mental health worker may be successful in helping these individuals, deal with the distress they experience, it would not help in complete remission as the underlying real cause/s for the condition are unknown or inadequately addressed (96). Thus, it is bound to make the intervention ineffective (13). Intervention strategies focusing on family are very important for prevention and intervention while addressing the mental illness in families and its intergenerational impact (97).

Prevention is considered as the most essential and preferred intervention strategy as it helps curbing the transfer of parental trauma and its effects onto the next generation (96). Primary prevention for transmission focuses on preventing the occurrence of the condition in normal population and this may be achieved by frequent screening of the population to identify individuals with trauma symptoms, training sessions for social workers or other individuals who may directly come in contact with parents and teaching them preventative parenting programs or social awareness programs that are provided at the community level for increasing awareness of the people. Secondary prevention is aimed at identifying the at-risk population and providing them with intervention techniques to limit the effects of it. And finally, tertiary prevention involves working closely with the affected population, for example, parents who are exposed to trauma and they and their children require interventions (98). The ‘socio economic models of prevention’ lay more focus on prevention at a community level as it is believed that individual family units are a part of a wider social dynamics. Therefore, a wider context must be considered while planning intervention strategies, and it may also include the clinical settings (99, 100).

Intervention strategies may be primarily aimed at working with the parent and aiming to resolve their trauma. The inability of the initial trauma survivor or the affected person interferes with normal healthy interactions and attachments with their offspring/s. This attachment plays a critical role of protecting or not protecting the offspring from experiencing the same or simi-
lar distress (101). Cognitive behavior therapy (102), emotional regulation training, mindfulness, dialectical behavioral therapy (103), Eye Movement Desensitization and Reprocessing (EMDR) (104), Art therapy techniques (105), Yoga practices (106) are some of the techniques that can be used during individual psychotherapy with the affected parents. It is also essential to form a therapeutic relationship of trust and interpersonal security within the interaction (107). In addition to this, it is also crucial to work on the parent-child relationship and actively support them. The direct approach to work with this can be helping parents to acquire an appropriate response towards their child as well as the reflective abilities to reflect on their own experiences and their child’s experiences too (108). And the indirect approach can be attempting to reduce the risk factors along with likely effects of parental mental illnesses, substance abuse, or their disorganized attachment styles and helping parents become more receptive and sensitive towards their offspring. This in turn would promote secure attachments between them (108).

Identification and promotion of protective factors among the families also emerged as a possible prevention strategy (61). Protective factors like parental monitoring (109), quality of parent-child relationship and parental support and involvement were some of the factors that predicted decreased alcohol use in offsprings of parents with history of substance use (61). In addition, reducing stigma about intergenerational transmission of mental health issues, encouraging parents to seek support, forming support groups and creating safe spaces for parents with adverse childhood experiences for seeking help, initiating intervention strategies for healthy parenting, adult skill building for parents, encouraging open communication and expression of love even amidst adversities can be some useful techniques to enhance the levels of resilience in affected individuals in helping develop and acquire necessary coping mechanisms. Besides, educating children and preparing them for the threat can also be a useful technique. As prevention may not always be possible, preparing the child for challenges they may face in future and develop mental illness due to transmission could also be highly helpful (110).

Research evidences also show that social support through positive buffering mechanisms may also act as a protective factor especially when parents are themselves caught up in their own psychological injuries. These may be social, cultural or familial resources to provide informational, instrumental or even emotional support to the family (111, 112). The social support helps in reducing stress of the parent (113) or creates more avenues for the child to form secure attachments from and feel a sense of safety and security for situations when the parents are indisposed (11). A research study by Hatch and others (114) on African American women and their preschool children observed that the mothers having high adverse childhood trauma and reported having a moderate to high familial social support did not witness increased externalizing behavior in their young children. Therefore, social support acted as a buffer and prevented intergenerational transmission of the mother’s symptoms.

Methodological Considerations

However, there are some methodological limitations in the cited empirical evidences. Effects of gender differences in the offsprings have been largely neglected, neurobiological causes were also given less credit than what is due. Intergenerational transmission studies are usually conducted over multiple generations, to observe their behavior and cross sectional research designs are utilized in most studies. This reduces our ability to draw cause and affects inferences and also affects our understanding of the direction of the relationship. Therefore, longitudinal research design are relatively more suitable to study the said phenomena as it would have helped us observe the behavior and personality of individuals over long durations of time. There is also a dearth of research focusing on influence of cultural factors on transmission, like race, ethnicity etc.

Albeit, extensive researches have been conducted on intergenerational transmission of trauma, however, only few researches explored other specific psychiatric conditions and how they are transmitted across generations. Similarly, scanty researches have focused in identifying risk factors and interventions to be provided to individuals with specific disorder.

Extensive reviewing of literature points towards the very crucial role of genetic transmission of the vulnerability of psychiatric illness among children of affected parents. Future researches may hence be conducted to explore the realms of genetic screening and introduction of preventative interventions thereafter. We also observe a dearth of research in the field of intervention strategies aimed at working with the prevention as well as management of individuals or families affected by intergenerational transmission of mental health illnesses. Mostly the available researches have an individual approach for management and disregarded the importance of interventions involving working with the entire family. Therefore, future researches conducted in this field may have a huge impact to curb its adverse effects. More extensive researches on causal and risk factors can also increase early identification and intervention, and thus, help break the continuous cycle of intergenerational transmission. Future implications can be interventions promoting resilience in the children and their parents helping them to be better equipped to deal with adverse conditions (110).

Please find some salient researches along with their major findings and observed methodological flaws given below in a tabular form:

**Conclusion**

We therefore conclude that intergenerational transmission of mental health issues is, due to a dynamic interplay of both genetic and environmental components, impacting the offspring of the affected parents to some extent and adding to the vulnerability towards the subsequent development of several psychiatric issues. Having parents with psychiatric issues affect the child’s home environment and interaction patterns with parents as they are not able to provide the child with an adequately nurturing environment, and thus translating into the faulty attachment styles the offspring develops. Other challenges owing to mental health issues of parents include socioeconomic difficulties and marginalization leading to stigmatization, decreased availability of social support, inability to acquire adequate academic competence and thus, the child may start replicating the maladaptive behaviors of their parents due to similar prevailing environmen-
tal conditions. Hence the transmission of mental health issues continues across generations.

Early identification of the vulnerable population along with early interventions has been suggested as a useful method to curb the effects of intergenerational transmission. Working with the affected parents individually through psychotherapy and also understanding the role of the family and working to resolve their issues through familial interactions can be done. Working on the parent-child relationship, building resilience and promoting the protective factors like social support or early psychoeducation about illness have also been proposed to break the cycle of intergenerational transmission of inequality in psychological health.

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