Deficits in children with parental schizophrenia: Review on challenges and resilience factors

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ABSTRACT

Schizophrenia is a complex and debilitating mental disorder that affects not only those who suffer from the disorder, but their families as well, particularly their children. The present review paper examines the multidimensional impacts of parental schizophrenia on their children, particularly the deficits and challenges that may be faced by them as a result. The review explains how nature and nurture interact to influence the development of schizophrenia, emphasizing the complex interplay between the two factors. Moreover, it explores the influence of family dynamics and family pathology on the experiences of these children. It examines the direct impact of having a parent with schizophrenia on the cognitive, emotional, and behavioral development of offspring, shedding light on the often-hidden struggles they encounter. Moreover, the study highlights the critical role played by the non-affected or "well" parent in providing support and stability within the family unit. Despite acknowledging the challenges, the review also highlights coping mechanisms and resiliency factors that can mitigate the adverse effects of parental schizophrenia on children. This review provides a foundation for further research and provides guidance for mental health professionals, clinicians, and policymakers seeking to improve the well-being of these children and their families by consolidating current knowledge about the deficits experienced by children whose parents suffer from schizophrenia.

Keywords: Parental schizophrenia, offspring deficits, resilience

INTRODUCTION

“When a parent is ill, it can be a very isolating experience for a child. They may feel like they are the only one going through this, and they may not know how to talk about it.”

- Michelle Obama

The offspring of people who are suffering from schizophrenia constitute a unique subject of study within the domain of psychiatric research. It is often difficult for these children to navigate a path influenced by a condition that remains stigmatized and misunderstood.¹, ² Within this context, Michelle Obama's words resonate deeply, highlighting the profound sense of isolation that characterizes their experiences. Individuals with parents suffering from schizophrenia are faced with a number of complex and multifaceted challenges, including cognitive, emotional, and social.

The cognitive difficulties experienced by these individuals are comprehended nature of symptoms displayed by their affected parents.³ Their mercurial and sometimes erratic manifestations may pose significant challenges to their cognitive development as they attempt to make sense of a complex and fluctuating world.⁴ An individual with a parent who suffers from schizophrenia is confronted with ambiguity on an emotional level, which contributes to the complicated emotional landscape they must navigate.⁵ In addition to the uncertainty surrounding their parent's condition, societal misconceptions and stigma associated with mental illness add layers of emotional complexity to their journey.⁴ As they attempt to reconcile their love and concern for their parent with the often tumultuous nature of the illness, these young individuals

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frequently find themselves grappling with a mixture of emotions, including fear, anxiety, guilt, and even shame.\textsuperscript{[6]} The current narrative paper intends to elucidate the intricacies of these challenges, rooted in the context of parental schizophrenia. Through a systematic exploration, to provide a comprehensive understanding of the unique adversities faced by these children, revealing the interplay of genetic predisposition, environmental factors, and resilience mechanisms that define the children's experiences within scientific and clinical contexts.

**METHOD & REVIEWING APPROACH**

This narrative review adopts a systematic and comprehensive approach to explore the intricate challenges faced by children with parents suffering from schizophrenia. The methodology employed for this review encompasses the following key steps:

**Search Strategy:** A rigorous search strategy was implemented to identify relevant scholarly literature. Databases such as PubMed, PsycINFO, Google Scholar, and Scopus were systematically searched using a combination of keywords and controlled vocabulary terms. The primary search terms included "parental schizophrenia," "offspring of individuals with schizophrenia," "genetics of schizophrenia," "cognitive deficits," "emotional challenges," "family dynamics," "resilience," and related variations. The search was not limited by publication date, ensuring the inclusion of both historical and contemporary studies.

**Inclusion and Exclusion Criteria:** Studies addressing the cognitive, emotional, and social challenges faced by children with parents suffering from schizophrenia were considered for their relevance. To provide a comprehensive overview, the inclusion criteria encompassed original research articles, reviews, and meta-analyses. Only peer-reviewed publications were included to ensure the quality and validity of the studies. Additionally, due to language constraints, only articles published in English were considered. The focus was on studies involving human subjects, encompassing both clinical and non-clinical populations. Exclusion criteria encompassed studies not directly related to the focus of this review, non-peer-reviewed sources, studies involving non-human subjects, and publications not available in the English language.

**Data Extraction and Synthesis:** The selected studies underwent a thorough data extraction process, including the collection of key information such as study design, sample characteristics, measures employed, and major findings. The synthesis of data involved a thematic analysis approach, identifying recurring themes related to cognitive deficits, emotional challenges, family dynamics, and resilience mechanisms in children with parents afflicted by schizophrenia.

**Genetics of Schizophrenia**

The role of genetic factors in the development of schizophrenia has been firmly established through extensive research.\textsuperscript{[7]} There is a relatively low lifetime risk of schizophrenia in the general population, but family studies have consistently shown a significant genetic predisposition to schizophrenia.\textsuperscript{[8]} The risk of schizophrenia developing in the offspring of parents with schizophrenia is approximately ten times higher.\textsuperscript{[9]} However, genetics alone do not provide a complete picture. In addition to genetic predisposition, environmental factors also play an important role, and their interaction remains a complex area of investigation.\textsuperscript{[9]} In order to design early interventions and improve mental health outcomes, it is crucial to understand the potential risks that are associated with both genetic and environmental factors.\textsuperscript{[8]} Offspring of schizophrenia-afflicted parents may exhibit neurocognitive and behavioural deficits that can serve as early indicators, potentially signalling the likelihood of schizophrenia-related psychosis or mental health problems in adulthood.\textsuperscript{[10, 11]} However, despite the fact that there is an increased risk, not all children of parents with schizophrenia will develop the disease.\textsuperscript{[10]} Researchers have diligently worked to pinpoint specific genetic factors contributing to this vulnerability. Yang et al.\textsuperscript{[12]} conducted an analysis of multiple studies and identified chromosome 8p22-p12 as a likely location for schizophrenia susceptibility loci. Within this region, the neuregulin 1 (NGR1) gene has emerged as a candidate of interest, believed to play a pivotal role in the pathogenesis of schizophrenia. The impact of family dynamics on individuals at risk of developing schizophrenia is equally important. The Ministry of Health Promotion defines healthy family functioning as how family members interact as a unit, encompassing communication, emotional
support, decision-making, and problem-solving.[13] In addition to an increased risk of emotional and behavioural problems, inadequate parenting practices, and compounding the challenges associated with low income, poor family dynamics and partner relationships can also have detrimental effects.[14, 15] The role of the family cannot be overemphasized, as it provides essential care, guidance, and nurturing to children, assisting them in navigating the complexities of life.[16] Positive family relationships can act as protective buffers, particularly for individuals who have a genetic predisposition to schizophrenia.[17] Compared with low-risk families, high-risk families often exhibit more disruption of family ties.[18] In addition, children of individuals with schizophrenia who were placed in adoptive families with disrupted environments were more likely to suffer from schizophrenia themselves.[19] Additionally, studies support this conclusion, emphasizing the importance of strong family bonds for children at risk for schizophrenia.[20]

**Cognitive and Emotional Deficits in High-Risk Children**

The development and well-being of children born to schizophrenia-affected parents often face a number of challenges.[21] Throughout this section, the review examined these deficits and their implications across a child's life, in order to shed light on the interrelationship between genetics, the environment, and cognitive and psychological difficulties. The genetic component of schizophrenia is well recognized, and offspring of parents with the disorder inherit a predisposition that places them at an elevated risk for various psychological and cognitive problems.[22] While not all children of parents with schizophrenia will develop the disorder itself, they carry a genetic vulnerability that may manifest in different ways throughout their lives.[23] Attentional impairments have become a notable area of concern among children at high risk. There is consistent evidence in research highlighting significant discrepancies in attention between offspring of individuals with schizophrenia and those born to healthy parents.[24] These deficiencies in attentional control can have wide-ranging ramifications, impacting various domains of cognitive functioning and scholastic accomplishment.[25] Children at high risk often confront parenting difficulties that are rooted in the mental health of their caregiver. Caregivers with schizophrenia may encounter obstacles in delivering consistent and stable care due to their own mental health concerns.[26] Consequently, this can lead to disruptions in the parent-child dynamic and expose children to maladaptive coping mechanisms and behaviours.[27] The impact of parenting challenges on the emotional and physical well-being of children in families affected by serious mental illness such as schizophrenia is exemplified in studies conducted by Campbell & Poon,[28] and Rampou et al.[29] Exposure to maladaptive behaviours and conflicts within the home environment can result in emotional distress and psychological difficulties for these children.[30] Research has uncovered a variety of cognitive deficits in children at high risk, encompassing domains such as memory, attention, and executive functioning. For example, deficiencies in verbal memory, gross motor skills, and attentional processes have been documented.[31, 32] These deficits are perceived as potential antecedents or markers of psychosis associated with schizophrenia.[33] High-risk children may also contend with impairments in social and emotional domains, potentially reflecting some of the challenges experienced by their parents who have schizophrenia.[34] Social intelligence of these children was found to have significant impairments in comprehension and dimensions of social intelligence. This deficiency in social intelligence may contribute to difficulties in establishing relationships and navigating social interactions.[35] Given the complex and varied difficulties encountered by offspring of individuals afflicted with schizophrenia, it becomes crucial to enact prompt intervention and continual oversight.[36] The identification of deficiencies in cognitive, emotional, and social realms at an initial phase allows for the creation of customized intervention initiatives.[37] These interventions strive to foster sound development, alleviate possible concerns, and aid the child's progression towards attaining a well-adapted and psychologically sound adulthood.

**Coping and Resiliency**

When a child is exposed to an unstable home environment or has interactions with an ill parent, there can be negative consequences that may only become evident in adulthood. Hence, it is crucial for the child to develop effective
strategies for managing stressors, whether they originate externally or within the family dynamic. The inability to effectively cope with stress can itself become a predisposing factor, increasing the likelihood of subsequent behavioural and neurocognitive problems. Research on the mediating influence of coping resources for children at risk of developing schizophrenia has identified three significant factors: the quality of the parent-child relationship, the emotional maturity of the child, and the perception of social support. Among these factors, the quality of the parent-child relationship emerges as an exceptionally important coping resource, influencing the vulnerability of these children. Those who experience poor outcomes often have strained or inadequate parent-child relationships.

The significance of the parent-child relationship is paramount for the child due to its role as a precursor to the child's ability to form interpersonal connections. Additionally, it has an impact on how the child approaches relationships with peers. Consequently, the parent-child relationship plays a vital part in the child's capacity to establish and sustain social connections. In the case of children whose parents have schizophrenia, the bond with the non-affected parent, and, if in remission, the affected parent, can assist them in building a robust and supportive network that facilitates effective coping with stressors.

Numerous investigations have substantiated the comprehension that the caliber of the parent-offspring affiliation is of utmost significance. The caliber of the affiliation the offspring has with one of the parents could aid in determining whether there would be behavioural complications subsequently. The offspring's perception of their affiliation with the parent has the potential to influence their perception of peer associations, which, when employed favourably, can be a vital adaptive strategy. If the family can sustain candid communication and robust connections, offspring are more proficient in embracing the illness of the parent, assimilating it into their daily regimen, and functioning correspondingly.

Not all children who are at a high risk for schizophrenia or psychological issues will actually develop these conditions, as has been observed. There are certain protective factors that can contribute to the resilience of these high-risk children. These factors include having a good temperament, being exposed to favourable parental attitudes, experiencing low levels of family conflict, having access to counselling and remedial assistance, belonging to a small family, and having fewer stressful life experiences.

Resilience, within the context of children who are confronted with challenges associated with a parent's schizophrenia, encompasses a collection of characteristics that empower individuals with the fortitude and resolve to confront the substantial barriers they encounter throughout their lives. These characteristics encompass social adeptness, a sense of agency or accountability, a positive outlook, a sense of purpose or optimism for the future, attachment to family, school, and education, problem-solving abilities, effective coping strategies, values that promote positive social behaviour, a sense of self-assurance, and a favourable perception of oneself.

The presence of a caring and engaged adult figure plays an essential role in fostering resilience in a child. This figure can take the form of a responsible parent, a trusted family friend, or a supportive extended family member. Serving as a reliable support system, this adult helps the child navigate through challenging situations and creates a nurturing environment. In addition, the child can acquire positive behaviours through observation, thus avoiding counterproductive actions and developing a robust sense of self-worth and self-assurance.

Social support plays a crucial role in alleviating the consequences of having a parent afflicted with schizophrenia. Sufficient social support empowers children to adapt proficiently, effectively employ emotional and tangible resources, and diminishes the probability of adverse psychological outcomes. Furthermore, researchers assert that peer relations and intimate friendships also contribute to typical development. The significance of the perceived assistance is equally vital as the existence of assistance itself. In circumstances where individuals require new information or undertake new responsibilities, a loosely connected social support system may be more advantageous. Nevertheless, in instances where children must...
cope with the demise of a parent or parental ailment, such as the scenario with children of parents with schizophrenia, a tightly-knit and well-connected support system may be more advantageous.\[54\] Depending on the circumstance, the expectations placed upon the support system may alter, and the social support system must possess enough adaptability to accommodate diverse necessities.

Certain personality characteristics also contribute to the development of resilience in children, such as adaptability, independence, decision-making skills, and problem-solving abilities. Social factors, such as familial assistance, encouragement, external motivation, and the delegation of responsibilities, foster in children the belief that they are capable of earning trust and meeting expectations.\[54\] Educational institutions, being influential establishments in a child's life, also play a significant role by providing ample opportunities for interaction with teachers and peers, who can serve as an additional source of support.\[55\] Upon synthesizing these insights, it becomes clear that mental health professionals, caregivers, and researchers alike must understand the interplay between genetic predisposition, environmental influences, and resiliency. Identifying potential deficits early on and intervening in a timely manner are essential steps in mitigating the impact of genetic susceptibility. Furthermore, fostering strong and supportive parent-child relationships and nurturing robust social support networks are integral components of a comprehensive approach to ensuring the well-being of children born to parents with schizophrenia.

The intricacies of the lives of the progeny of individuals afflicted with schizophrenia demonstrate a profound interaction between inherent susceptibilities and external nurturing. Genetic elements confer a predisposition; however, the existence of supportive surroundings and the promotion of adaptability endow these offspring with the capacity to surpass potential obstacles. It is the responsibility of society, encompassing mental health experts and caregivers, to furnish the necessary resources and support systems to cultivate resilience and enable these young lives to thrive in the face of the shadows cast by parental schizophrenia.

**Clinical Implication & Recommendation**

A comprehensive examination of the consequences of having a parent with schizophrenia results in the development of various clinical suggestions to promote the welfare and psychological well-being of children born into such families. These guidelines are established on the awareness of genetic predisposition, environmental influences, and the role of resiliency in shaping outcomes.

**Early Intervention and Psychoeducation**

Mental health practitioners should give precedence to the prompt initiation of intervention and the provision of psychoeducational resources to families wherein a parent is diagnosed with schizophrenia.\[56\] The early intervention process entails the identification of children who are at risk and furnishing them with the necessary support at the earliest possible juncture. Psychoeducation, on the other hand, empowers parents with knowledge pertaining to the potential ramifications of their condition on their offspring. By comprehending the challenges that their children might confront, parents can adopt proactive measures to establish an environment that is both nurturing and stable.\[56\] The implementation of early intervention can effectively avert or alleviate the onset of psychological ailments and neurocognitive deficiencies, thus laying the groundwork for more favourable outcomes.

**Resilience-Building Programs**

Designing intervention initiatives aimed at bolstering the resilience of vulnerable children necessitates a focus on augmenting their social adeptness, problem-solving proficiencies, and cultivating a sense of optimism.\[57\] Resilience, a pivotal protective factor for children grappling with adverse circumstances, can be fortified through such programs. These endeavours enable children to effectively navigate stressors, cultivate robust interpersonal connections, and sustain a sanguine perspective.\[58\] By equipping them with these quintessential life skills, we can augment their capacity to adapt and flourish despite the myriad challenges associated with having a parent afflicted by schizophrenia.
School-Based Support

Collaboration with educational institutions to extend assistance to vulnerable children, encompassing therapeutic counselling services and scholastic aid, has the potential to yield substantial benefits for these children.\[^{59}\] Educational institutions are pivotal in a child’s existence. By cultivating nurturing environments within these institutions, we can ensure that children receive the necessary support to thrive both academically and emotionally. School-centered counselling services possess the ability to detect early indicators of distress and provide appropriate interventions in a timely manner, thus mitigating the likelihood of academic and psychological challenges.

Peer Support Groups

Creating peer support groups for children of parents with schizophrenia has the possibility to build a basis of communal support. It furnishes a secure environment wherein children can freely communicate their encounters, sentiments, and difficulties with others who can empathize.\[^{60}\] These groups effectively diminish sentiments of seclusion and encourage camaraderie amongst peers, thereby rendering them particularly valuable during instances of emotional turmoil. The act of connecting with peers who encounter comparable circumstances aids children in constructing a robust network of support outside of their immediate familial unit.\[^{61}\]

These recommendations combine early intervention, skill-building, family support, school collaboration, and peer connections to create a comprehensive approach to supporting children with parents diagnosed with schizophrenia. By implementing these strategies, we can enable these children to develop resilience, adapt to their unique circumstances, and lead fulfilling lives despite the challenges they may encounter.

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