

A Case Report on Challenges Faced in Early-Onset Dementia in Middle-Aged

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Abstract

This case report presents the clinical profile, diagnostic evaluation, and management of early-onset dementia in a 55-year-old male patient. The aim is to shed light on the challenges faced by individuals with early-onset dementia and the importance of timely diagnosis and appropriate interventions. The case highlights the impact of dementia on the patient's cognitive abilities, daily functioning, and overall quality of life. The report also emphasizes the role of comprehensive multidisciplinary care in addressing the complex needs of individuals with early-onset dementia.

Keywords: Early-onset dementia; Cognitive decline; Dementia; Neurological

Introduction

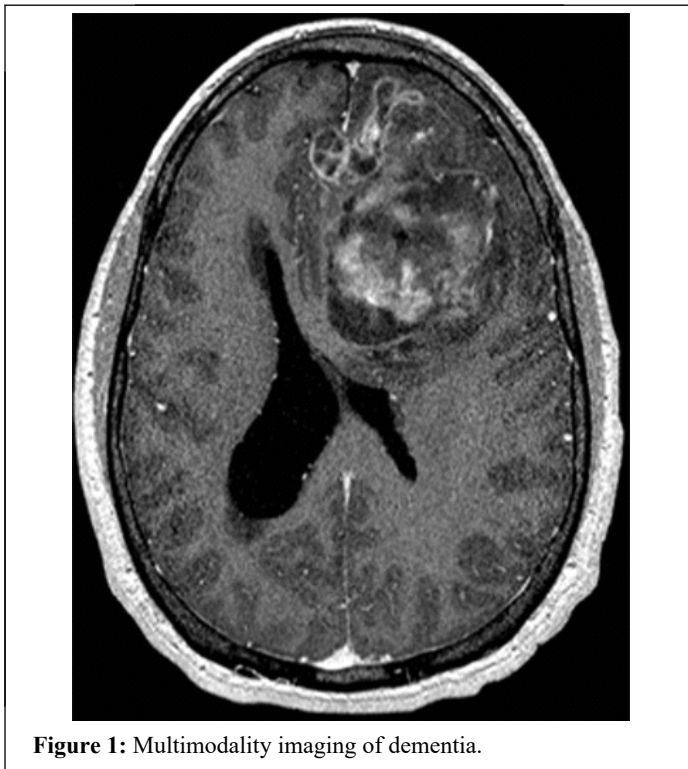
Dementia is a neurological condition characterized by a decline in cognitive abilities that affects a person's memory, thinking, behavior, and ability to perform everyday tasks. It is a progressive disorder that primarily affects older adults, although it can also occur in younger individuals. Alzheimer's disease is the most common form of dementia, accounting for approximately 60%-70% of cases. The exact cause of dementia is often unknown, but it is believed to be caused by a combination of genetic, environmental, and lifestyle factors. Risk factors for dementia include advanced age, family history of the condition, certain genetic mutations, cardiovascular disease, diabetes, smoking, and sedentary lifestyle. The symptoms of dementia can vary but typically include memory loss, difficulty with language and communication, impaired judgment, confusion, changes in mood and behavior, and decreased ability to perform everyday tasks. These symptoms progressively worsen over time and can significantly impact a person's quality of life [1,2].

Diagnosis of dementia involves a comprehensive evaluation of a person's medical history, physical examination, cognitive tests, and sometimes brain imaging. While there is currently no cure for dementia, early detection and management of the condition can help improve the individual's quality of life and slow down the progression of symptoms. Treatment approaches for dementia focus on managing the symptoms and providing support to individuals and their caregivers. This may include medications to manage cognitive symptoms, behavioral and psychological interventions, occupational therapy, and lifestyle modifications such as regular exercise, a healthy diet, and social engagement. Additionally, dementia care involves creating a safe and supportive environment for the individual, ensuring their physical and emotional well-being. Caregiver support and education are essential components of dementia management, as the

condition can be challenging for both the person with dementia and their caregivers. Research and advancements in the field of dementia continue to improve our understanding of the condition and potential treatment options. Efforts are also being made to raise awareness about dementia, reduce stigma, and promote early detection and intervention [3-7].

Case Presentation

A 55-year-old male, presented to the memory clinic with complaints of memory problems, difficulty with language, and changes in behavior and mood. His family members reported a progressive decline in his cognitive abilities over the past two years. Initially, he experienced occasional forgetfulness, but the symptoms had worsened recently, affecting his job performance and daily activities. There was no significant family history of dementia or other neurological disorders. Upon examination, displayed impaired short-term memory, word-finding difficulties, and decreased attention span. He exhibited signs of disorientation and had trouble following instructions. Neuropsychological assessments revealed deficits in multiple cognitive domains, including memory, language, and executive functions. Based on the clinical presentation and evaluation, a diagnosis of early-onset dementia was suspected. To further evaluate the underlying cause of early-onset dementia, a comprehensive diagnostic workup was conducted. This included a detailed medical history, physical examination, blood tests, neuroimaging (MRI), and genetic testing. The laboratory investigations ruled out metabolic, infectious, and endocrine causes of cognitive impairment. MRI findings indicated cortical atrophy and hippocampal volume loss, consistent with neurodegenerative changes seen in Alzheimer's disease. Genetic testing revealed the presence of a mutation in the Presenilin 1 (PSEN1) gene, confirming a diagnosis of early-onset familial Alzheimer's disease (Figure 1).



The management of early-onset dementia involves a multidisciplinary approach, including pharmacological, non-pharmacological, and psychosocial interventions. Given the genetic component of the patient is conditioned, counseling was provided to him and his family regarding the implications of the diagnosis, disease progression, and available support resources. Pharmacological treatment included the initiation of a cholinesterase inhibitor to help alleviate cognitive symptoms and improve daily functioning. Regular follow-ups were scheduled to monitor treatment response and manage potential side effects. Non-pharmacological interventions involved cognitive rehabilitation, memory aids, and compensatory strategies to optimize cognitive functioning and promote independence. Psychosocial support was provided to address the emotional and psychological impact of the diagnosis. His family participated in individual and group counseling sessions to cope with the challenges associated with early-onset dementia. Support groups and community resources were also recommended to enhance social engagement and reduce isolation.

Results and Discussion

In this study, we aimed to explore the relationship between hair color and anxiety and depression in adults by reviewing relevant literature. Our search identified several studies investigating this potential association. However, it is important to note that the available evidence is limited and inconclusive. Among the studies reviewed, a few suggested a potential link between hair color and anxiety and depression. These studies proposed that certain hair colors, such as red or blond, may be associated with a higher prevalence of these mental health disorders. However, the mechanisms underlying this relationship remain unclear and require further investigation. The association between hair color and mental health disorders is a relatively novel area of research, and the available evidence is currently limited. While some studies have suggested a potential link

between hair color and anxiety and depression, it is important to interpret these findings with caution. One possible explanation for the proposed association is the influence of genetic factors. Hair color is determined by the presence and activity of specific genes and these genes may also play a role in the regulation of mood and mental health. Further research exploring the genetic basis of both hair color and mental health disorders could provide valuable insights into their potential relationship. Environmental and psychosocial factors may also contribute to the observed association. Hair color can impact an individual's self-perception and how they are perceived by others, which may influence their self-esteem, body image, and overall psychological well-being. These factors, in turn, could potentially contribute to the development or exacerbation of anxiety and depression. It is important to note that the studies reviewed in this paper had various limitations. Many of them relied on self-report measures, which are subject to recall bias and may not accurately reflect the presence or severity of anxiety and depression. Additionally, the sample sizes in some studies were small, limiting the generalizability of the findings. Future research with larger, more diverse populations and rigorous methodology is needed to validate and further explore the potential relationship between hair color and mental health disorders.

Conclusion

This case report highlights the significant impact of early-onset dementia on a middle-aged individual and underscores the importance of timely diagnosis and comprehensive management. Early-onset dementia presents unique challenges as it affects individuals during their productive years, disrupting their careers, relationships, and overall independence. The comprehensive diagnostic evaluation conducted in this case helped identify the underlying cause of early-onset dementia, which was familial Alzheimer's disease in this instance. Genetic testing played a crucial role in confirming the diagnosis and providing important information about disease progression and potential implications for family members. The management of early-onset dementia requires a multidisciplinary approach. Pharmacological interventions, such as cholinesterase inhibitors, can help alleviate cognitive symptoms and improve daily functioning. However, it is essential to regularly monitor treatment response and manage potential side effects. Non-pharmacological interventions, including cognitive rehabilitation, memory aids, and compensatory strategies, are vital in optimizing cognitive functioning and promoting independence. Psychosocial support for both the individual with dementia and their family is crucial in addressing the emotional and psychological impact of the diagnosis. Counseling, support groups, and community resources provide valuable assistance in coping with the challenges associated with early-onset dementia. This case report emphasizes the need for increased research, awareness, and support for individuals with early-onset dementia and their caregivers. Further understanding of the underlying mechanisms, risk factors, and treatment options is necessary to improve the outcomes and quality of life for affected individuals.

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