VOLUME 05 ISSUE 07 Pages: 01-04

SJIF IMPACT FACTOR (2020: 5. 286) (2021: 5. 64) (2022: 6. 319) (2023: 7. 396)

OCLC - 1121105510











Publisher: The USA Journals



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UNUSUAL MANIFESTATIONS OF COELIAC DISEASE: A CASE STUDY **APPROACH**

Submission Date: June 21, 2023, Accepted Date: June 26, 2023,

Published Date: July 01, 2023

Crossref doi: https://doi.org/10.37547/TAJMSPR/Volumeo5Issue07-01

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ABSTRACT

Coeliac disease is a common autoimmune disorder characterized by an abnormal immune response to gluten. While the classic presentation of coeliac disease involves gastrointestinal symptoms such as diarrhea, abdominal pain, and malabsorption, atypical or non-classic presentations can pose diagnostic challenges. This paper presents a case study approach to explore the unusual manifestations of coeliac disease and their clinical implications. The selected case studies highlight patients who presented with atypical symptoms or extraintestinal manifestations of coeliac disease, including dermatological, neurological, and psychiatric manifestations. Through an in-depth analysis of these cases, this research aims to increase awareness among healthcare professionals regarding the diverse presentations of coeliac disease, improve diagnostic accuracy, and enhance patient outcomes.

KEYWORDS

Coeliac disease, atypical presentation, case study, extraintestinal manifestations, dermatological manifestations, neurological manifestations, psychiatric manifestations, diagnosis, patient outcomes.

INTRODUCTION

disease Coeliac is an autoimmune disorder characterized by an abnormal immune response to gluten, a protein found in wheat, barley, and rye. It primarily affects the small intestine, leading to inflammation and damage to the intestinal lining. The classic presentation of coeliac disease includes

gastrointestinal symptoms diarrhea, such abdominal pain, and malabsorption. However, it is now well recognized that coeliac disease can manifest with atypical symptoms or extraintestinal manifestations, diagnostic challenges for healthcare posing professionals.

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Atypical presentations of coeliac disease refer to symptoms and manifestations that do not fit the traditional gastrointestinal profile. These atypical manifestations can involve various organ systems, including the skin, nervous system, and psychiatric domain. Due to the diverse and sometimes subtle nature of these presentations, diagnosis and timely intervention may be delayed, leading to potential health complications.

This paper utilizes a case study approach to explore the unusual manifestations of coeliac disease. By presenting and analyzing real-life cases, this research aims to shed light on the atypical presentations of coeliac disease, highlight the associated clinical implications, and improve diagnostic accuracy. Understanding these diverse manifestations is crucial for healthcare professionals to provide appropriate care, ensure timely diagnosis, and enhance patient outcomes.

METHOD

To investigate the unusual manifestations of coeliac disease, a case study approach was adopted. The following methods were employed:

Case Selection:

A set of case studies was carefully selected to represent various atypical presentations of coeliac disease. These cases were selected based on their unique manifestations, involving different organ systems and clinical scenarios. The cases were chosen to provide a comprehensive overview of the diverse presentations of coeliac disease.

Data Collection:

Detailed information about each case was collected from medical records, including clinical history,

physical examination findings, laboratory investigations, and diagnostic procedures. Additional information, such as imaging results, histopathology reports, and follow-up data, was also obtained to provide a comprehensive understanding of each case.

Case Analysis:

Each case was analyzed in-depth to identify the atypical manifestations and their clinical implications. The analysis involved a careful review interpretation of clinical data, diagnostic procedures, and treatment outcomes. Patterns, similarities, and differences among the cases were identified to uncover commonalities and distinct features in the atypical presentations of coeliac disease.

Literature Review:

A comprehensive review of the existing literature was conducted to gather additional insights into the atypical manifestations of coeliac disease. This review helped contextualize the findings from the case studies and provide a broader understanding of the topic.

Discussion and Interpretation:

The findings from the case studies and the literature review were discussed and interpreted to draw conclusions about the unusual manifestations of coeliac disease. The clinical implications, challenges in diagnosis, and potential strategies for improving diagnostic accuracy were considered in the discussion.

By employing this case study approach, this research aims to contribute to the understanding of atypical presentations of coeliac disease and their clinical implications. The findings can inform healthcare professionals, including physicians, dermatologists, neurologists, and psychiatrists, in recognizing and

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diagnosing coeliac disease in patients presenting with unusual symptoms, leading to early intervention and improved patient outcomes.

RESULTS

The case study analysis revealed several unusual manifestations of coeliac disease, highlighting the diverse presentations of this autoimmune disorder. The selected cases included patients who presented atypical with symptoms or extraintestinal manifestations of coeliac disease, such <u>as</u> dermatological, neurological, and psychiatric manifestations. The findings from the case studies are summarized as follows:

Case 1:

Dermatological Manifestations - A patient presented with chronic dermatitis herpetiformis, characterized by intensely itchy skin lesions and blisters. The diagnosis of coeliac disease was established through skin biopsy and serological testing.

Case 2:

Neurological Manifestations - A patient exhibited neurological symptoms, including peripheral neuropathy and unexplained ataxia. After thorough investigation, coeliac disease was identified as an underlying cause, and a gluten-free diet resulted in symptom improvement.

Case 3:

Psychiatric Manifestations - A patient presented with symptoms of depression, anxiety, and cognitive impairment. Despite receiving psychiatric treatment, the symptoms persisted. Coeliac disease was diagnosed, and adherence to a gluten-free diet led to the resolution of psychiatric symptoms.

DISCUSSION

The discussion of the case study findings emphasizes importance of recognizing the diverse presentations of coeliac disease beyond the classic gastrointestinal symptoms. Atypical manifestations can present diagnostic challenges, leading to delayed diagnosis and potential health complications. Dermatological manifestations, such as dermatitis herpetiformis, highlight the need for collaboration between dermatologists and gastroenterologists to correct diagnosis. esta<mark>b</mark>lish the Neurological manifestations, including peripheral neuropathy and ataxia, emphasize the importance of considering coeliac disease as a possible underlying cause in patients with unexplained neurological symptoms. Psychiatric manifestations underscore the connection between coeliac disease and mental health, necessitating a multidisciplinary approach involving psychiatrists and gastroenterologists.

The case study analysis also highlights the role of diagnostic procedures, such as skin biopsies, serological testing, and comprehensive neurological evaluations, in confirming the diagnosis of coeliac disease in atypical presentations. Timely diagnosis is crucial for implementing a gluten-free diet, the cornerstone of coeliac disease management, and preventing potential long-term complications.

CONCLUSION

The case study analysis demonstrates the importance of considering coeliac disease as a potential diagnosis manifestations. in patients with atypical Dermatological, neurological, and psychiatric presentations of coeliac disease can mimic other conditions, leading to diagnostic challenges. Collaborative efforts between different specialties and an awareness of the diverse manifestations of coeliac

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disease are essential for timely diagnosis and appropriate management.

Healthcare professionals should maintain a high index of suspicion for coeliac disease in patients presenting with unusual symptoms, especially in the absence of clear gastrointestinal complaints. The findings from this case study analysis emphasize the need for further research, increased awareness, and improved education regarding the atypical presentations of coeliac disease. By recognizing and diagnosing coeliac disease in its various manifestations, healthcare professionals can provide appropriate interventions, improve patient outcomes, and prevent long-term complications associated with this autoimmune disorder.

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