

RESEARCH ARTICLE

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A survey on clinical presentation and nutritional status of infants with suspected cow' milk allergy

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Abstract:

Background: Cow's milk is the most common food allergen in infants and the diagnosis of cow's milk allergy is difficult, even with the use of several diagnostic tests. Therefore, elimination diets and challenge tests are essential for the diagnosis and treatment of this disorder. The aim of this study is to report the dinical presentation and nutritional status of children evaluated by pediatric gastroenterologists for the assessment of symptoms suggestive of cow's milk allergy.

Methods: An observational cross-sectional study was performed among 9,478 patients evaluated by 30 pedatric gastro-enterologists for 40 days in 5 different geographical regions in Brazil. Clinical data were collected from patients with symptoms suggestive of cow's milk affergy. The nutritional status of infants (age s. 24 months) seen for the first time was evaluated according to z-scores for weight-for-age, weight-for-height, and height-for-age Epi-Info (CDC-NCHS, 2000) software was used to calculate z-scores.

Results: The prevalence of suspected low's milk allergy in the study population was 5.4% (\$13/9,478), and the incidence was 2.2% (211/9,478). Among 159 infants seen at first evaluation, 15.1% presented with allow weight-for-age z score (< -2.0 standard deviation - SD), 8.7% with a low weight-for-height z score (< -2.0 SD), and 23.9% with a low height-for-age z score (< -2.0 SD).

Conclusion: The high prevalence of nutritional deficits among infants with symptoms suggestive of cow's milk allergy indicates that effective elimination diets should be prescribed to control allergy symptoms and to prevent or treat malnutrition.

Background

The incidence of food allergies has increased in several parts of the world, particularly in developed countries [1-6]. Cow's milk is the most common food allergen in infants and the diagnosis of cow's milk allergy is difficult, even with the use of several diagnostic tests. Therefore, elimination diets and challenge tests are essential for the diagnostis and treatment of this disorder [7.8]. Cow's milk and cow's milk based infant formulas are the most frequently used substitutes for infants who are not breastfed. The growth and development of infants that are allergic to cow's milk may be compromised if an adequate substitute formula is not available [9-12]. The nutritional quality of cow's milk substitutes used for this group of

patients has a crucial role in promoting appropriate growth and development [9-12].

Prior to 1950, the incidence of cow's milk allergy in the first year of life was low and affected about 0.1% to 0.3% of all infants. Prospective studies conducted in 1970 and 1988 showed that the incidence of cow's milk allergy reached 1.8% to 7.5%, a wide range explained by the differences in diagnostic criteria adopted in different studies [1,6]. Symptoms suggestive of cow's milk allergy are reported by parents of 5.0% to 15.0% of all infants [1]. These data draw attention to the importance of an accurate diagnosis of food allergy in order to avoid the use of elimination diets for prolonged periods of time in infants without a confirmed diagnosis.

The aim of this study was to describe the clinical presentation and nutritional status of children evaluated by

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C. Edward Wall

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Table of Contents Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th

- 1. Understanding the eBook Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - The Rise of Digital Reading Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - o Popular eBook Platforms
 - Features to Look for in an Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of

Th

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Personalized Recommendations
 - Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th User Reviews and Ratings
 - Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th and Bestseller Lists
- 5. Accessing Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th Free and Paid eBooks
 - Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th Public Domain eBooks
 - Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th eBook Subscription Services
 - Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th Budget-Friendly Options
- 6. Navigating Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th Compatibility with Devices
 - Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Highlighting and Note-Taking Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Interactive Elements Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
- 8. Staying Engaged with Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - \circ Following Authors and Publishers Nutritional Status Survey Of Infants In Iraq Final Report For The 15

Governorates Of Th

- 9. Balancing eBooks and Physical Books Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Setting Reading Goals Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Fact-Checking eBook Content of Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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