

RESEARCH ARTICLE

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 clinical 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 pediatric gastroenterologists for 40 days in 5 different geographical regions in Brazil. Clinical data were collected from patients with symptoms suggestive of cow's milk allergy. The nutritional status of infants (age ≤ 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 cow's milk allergy in the study population was 5.4% (513/9,478), and the incidence was 2.2% (211/9,478). Among 159 infants seen at first evaluation, 15.1% presented with a low 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 diagnosis 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 breast-fed. 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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Nutritional Status Survey Of Infants In Iraq Final Report For The 15 Governorates Of Th

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Pariah States & Sanctions in the Middle East Tim Niblock,2001 A dispassionate analysis of the effect political economic and psychological of sanctions on the Middle East s pariah states *Nutritional Status Survey of Infants in Iraq* P. Heffinck,2003-12-01 A report for the Oct 1997 nutritional status survey of 3 153 children in the 15 South Centre governorates of Iraq shows that general malnutrition occurs in 14 6% of infants chronic in 12 2% and acute malnutrition in 7 5% Projections of the findings for infants indicate that the prevalence of general malnutrition in children under 5 years of age is 25% which is unacceptably high and compares with the very needy countries of the world This is the 4th Nutrition Survey in this region These surveys have provided a useful overview of the nutritional status in Iraq which indicate that stronger multi sectoral interventions are very much required to better address this serious problem affecting a large number of children Situation Analysis of Children and Women in Iraq, 1997 ,1998 The Chapter VII Powers of the United Nations Security Council Erika de Wet,2004 This study provides a comprehensive analysis of the questions pertaining to the powers of the Security Council under Chapter VII of the Charter of the United Nations In doing so it departs from the premise that an analysis of the limitations to the powers of the Security Council and an analysis of judicial review of such limitations by the ICJ respectively are inter dependent On the one hand judicial review would only become relevant if and to the extent that the powers granted to the Security Council under Chapter VII of the Charter are subject to justiciable limitations On the other hand the relevance of any limitation to the powers of the Security Council would remain limited if it could not be enforced by judicial review This inter dependence is reflected by the fact that Chapters 2 and 3 focus on judicial review in advisory and contentious proceedings respectively whereas Chapters 4 to 9 examine the limits to the powers of the Security Council The concluding chapter subsequently illuminates how the respective limits to the Security Council s enforcement powers could be enforced by judicial review It also explores an alternative mode of review of binding Security Council decisions that could complement judicial review by the ICJ notably the right of states to reject illegal Security Council decisions as a right of last resort The space and attention devoted to the limits to the Security Council s enforcement powers reflects the second aim of this study namely to provide new direction to this aspect of the debate on the Security Council s powers under Chapter VII of the Charter It does so by paying particular attention to the role of human rights norms in limiting the type of enforcement measures that the Security Council can resort to in order to maintain or restore international peace and security *A Matter of Fact Vol. 27* C. Edward Wall,1998-05 The Middle East, Abstracts and Index ,1999 *Official Records* United Nations. Security Council,1997 **Documentación de la FAO.** ,1990 **Agrindex** ,1989 **Global Health** Kevin McCracken,David R. Phillips,2017-07-14 Global Health continues to provide readers with a comprehensive up to date and thought provoking outline and understanding of the constantly evolving global health landscape In this new edition the authors have maintained the successful structure and organisation of the previous edition

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Science Citation Index, 1975 Vols for 1964 have guides and journal lists

Report of the Nutritional Status Assessment Mission to Iraq, 1993

The Association Between Birth Interval and Nutritional Status Among Iraqi Infants and Children After the Gulf War Omar Shafey, 1992

Report to the Government of Iraq on the Dietetics Work of the National Nutrition Institute Th Béné, 1958

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