



Overview on Allergy and its Prevalence in USA

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Abstract

An allergic condition is a hypersensitivity disorder in which the immune system reacts to substances in the environment that are normally considered harmless. Food allergy, pediatric allergy and immunology, asthma, peanut allergy, penicillin allergy, Seasonal allergic rhinitis (hay fever), Anaphylaxis, allergic conjunctivitis, pollen allergy, sinusitis are allergic diseases. Allergies are the 6th leading cause of chronic illness in the U.S. Every year more than 50 million Americans suffer from allergies. Asthma and Allergy Foundation of America is Non-profit organization provides the awareness and education programs to people with allergic diseases and improve the quality of people and decrease the mortality.

Keywords: Allergy; Allergic diseases; Awareness; Literature; USA societies

Introduction

Allergies are hypersensitive immune responses to certain foreign substances that either enter or come in contact with the body. Allergens are the substances which causes an allergic reaction. Allergens are found in house dust mites, pets, pollen, insects, molds, foods, drinks, pet dander, pollen, venom, some medicines and the environment. Most allergens are harmless. The immune system overreacts to the allergen by producing Immunoglobulin E (IgE) antibodies. Symptoms of allergy depends on the type of allergen and body part where it enters. Mainly triggers symptoms in the nose, lungs, throat, sinuses, ears, lining of the stomach or on the skin.

Atopy is the genetic tendency to develop allergic diseases. Anaphylaxis is a serious, life-threatening allergic reaction.

Food allergy, pediatric allergy and immunology, asthma, peanut allergy, penicillin allergy, Seasonal allergic rhinitis (hay fever), Anaphylaxis, allergic conjunctivitis, pollen allergy, sinusitis and Drug allergy are allergic diseases.

Allergic diseases are the 6th leading cause of chronic illness in the U.S. Every year more than 50 million Americans suffer from allergic diseases. In 2012, 11.1 million people were diagnosed with allergic rhinitis, 17.6 million adults and 6.6 million children had hay fever and 8.8 million children had skin allergies. In 1997-2011 prevalence of food and skin allergies increased in children under 18 years. In 2014, 4 million children have food allergies. About 5% of the population have an Insect sting allergies and 1% of people have a latex allergy. Asthma and Allergy Foundation of America (AAFA) is a Non-profit organization provides the awareness and education programs to people with allergic diseases and improve the quality of people and decrease the mortality.

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According to National Health Interview Survey (NHIS) data from the 2014, 8.4% of US under age 18 children suffered from hay fever, 10% from respiratory allergies, 5.4% from food allergies and 11.6% from skin allergies.

The severity of all these diseases can be from low risk or no risk to death. Proper care must be taken, in order to prevent occurrence of the patient. So there is a need to be educated and to obtain knowledge on occurrence of the allergy and related diseases so that the right preventive measures can be taken during their occurrence. People can gain awareness through literature, internet sources, family physicians and consultants. Open access journals provide more visibility and accessibility to the readers in gaining the required information. The ongoing researches all over the world, which are being exhibited through open access journals, serve as the main source of information in various fields.

In order to create awareness among the people, group of physicians and consultants unite to form a society or an organization. The main aim of these societies is to counsel and create awareness among the victims of heart disorders as well as healthy personnel. Major societies like WAMS (World Academy of Medical Sciences) provides an international network of medical research and clinical activities on academic levels. The American Research and Policy Institute (APRI) is a non-profit research and education organization dedicated to producing useful and relevant academic quality information and programs.

Open Access literature plays a key role in proving the information and current researches across the globe. Journal of Allergy-SciTechnol provides the information on developments in clinical research regarding diagnosis, treatment and management of prevalent types of allergies including drug allergy, food allergies, contact dermatitis, latex allergy, allergic asthma, Pollen allergies, animal allergy, allergy to molds, Seasonal allergic rhinitis (hay fever) and anaphylaxis. Journal of Allergy & Therapy is a peer reviewed journal provides the information on allergy research including new strategies in diagnosis, therapy and prevention of allergic diseases. Insights in Allergy, Asthma & Bronchitis is a world class open access journal intended to publish the cutting edge research in the field of Allergy, Asthma and Bronchitis. Journal of Clinical Respiratory Diseases and care provides vast range of practical knowledge on current on-going clinical research in all areas of respiratory system and treatments for various disorders and diseases. The above mentioned Open access journals on cardiology are the peer-reviewed journals that maintain the quality and standard of the journal content, reviewer's agreement and respective editor's acceptance in order to publish an article. These journals ensures the barrier-free distribution of its content through online open access and thus helps in improving the citations for authors and attaining good journal impact factors.

Most Prevalent Allergic diseases across the Globe

The most common allergic diseases include Food allergy, pediatric allergy and immunology, asthma, peanut allergy, penicillin allergy, Seasonal allergic rhinitis (hay fever), Anaphylaxis, allergic conjunctivitis, pollen allergy and sinusitis. From all of these diseases mentioned, nasal allergies and food allergy affects many people in the United States.

Food allergy mainly occurred due to the abnormal responses caused by body's immune system towards food. Symptoms of food allergy range from mild to severe. Through Open access healthcare literature provides information of novel researches on going in the current era. Here is the list of few articles which provide reports that are competent enough for a person to attain knowledge on allergy. An article entitled Does Sensitization to Food Allergens in Patients with Rhinitis Mean Food Allergy?_written by Nelson Rosario Brazil, verify the frequency of positive specific IgE to food allergens in patients with respiratory allergic diseases using molecular analysis, a cross-sectional study involved 101 children and adolescents having 6-18 years age were diagnosed with allergic rhinitis in Curitiba, Southern Brazil. None of subjects presented food allergy

history. Allergic Asthma is an allergic disease commonly seen in allergy seasons. An article entitled Pathophysiological Mechanisms Underlying the Efficacy and Safety of Sublingual Immunotherapy written by Cristoforo Incorvaia Italy, explains the safety and efficacy of sublingual immunotherapy in treating patients with allergic rhinitis. Allergy is an exaggerated response of immune system. An article entitled Recurrent Wheezing in Infants and Young Children and Bronchial Hyper- Responsiveness written by Russell J Hopp USA, concept of the recurrently wheezing child.

Apart from the articles, presentation at conferences, symposiums, workshops also yield a better exposure to health information and advanced technologies that are being invented in the present generation. In 7th International Conference held in September 2016 in Amsterdam, Netherlands, Alanood Asiri presented his views on the pattern of aeroallergen sensitization among patients suffering from allergic asthma and allergic rhinitis. In this abstract he stated that High level of aeroallergen reactivity detected and need for introduction and implementation of environmental control measures for avoidance of exposure to aeroallergens. In 13th European Cardiology Conference held in December 05-06, 2016 in Spain, Artur V Gabrielyan of Ukraine presented his views on the Cord blood stem cells in a complex treatment of patients in a waiting list for heart transplantation. In this abstract he stated that efficiency of CBSC transplantation in complex conservative treatment of refractory HF is improves life quality.

Yutong Zhao is a scientific professional with research expertise in pulmonary diseases. Zhao has explains the role of a bioactive lysophospholipid receptor, LPA₂ in CLP-induced septic lung injury in his article. Francisco Javier Callejas González is of Spain, expert in the field of Pulmonology. In his article he explains the pathogenesis of COPD and its exacerbations. Daisuke Tsuruta is an associate professor in the Department of Dermatology. He mainly focused on anaphylaxis and its relation with lemon sorbet in his article.

Conclusion

Allergic diseases are most prominent and prevalent in USA, the occurrence of food and skin allergic diseases are increased from 1997-1999 to 2009-2011. Allergic diseases are the 6th leading cause of chronic illness in the U.S. Every year more than 50 million Americans suffer from allergic diseases. All this information can be accessed in open access health care literature which exhibits the novel therapies and innovative researches taking place in the research field. Many professionals share their views; suggestions through the open access literature which can be accessed by all in order attain knowledge on allergic diseases. Early detection and appropriate preventive measures can help to decrease occurrence of allergies and its impact on quality of life and mortality of American people in United States.

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