Atopic Dermatitis in America
Study Overview

Asthma and Allergy Foundation of America

NATIONAL ECZEMA ASSOCIATION

This survey was a research project of the Asthma and Allergy Foundation of America in partnership with the National Eczema Association and with support from Sanofi Genzyme and Regeneron.
ABOUT ATOPIC DERMATITIS

Around 16.5 MILLION ADULTS have atopic dermatitis (AD), with 6.6 million reporting moderate-to-severe symptoms.

In the past, AD has mostly been considered a childhood disease. But, more recent research (including this study) confirms that many adults are living with AD.

There is no cure for AD, and many people have troubling controlling it. While there are many medical and non-medical treatments used to manage AD, they are not all effective. The treatments can be inconvenient and may cause toxic side effects. As a result, many with AD fail to seek and comply with medical treatment.

OBJECTIVES

The Asthma and Allergy Foundation of America (AAFA) works to better understand the families and communities affected by asthma and allergic diseases. To ensure the programs we develop are effective and appropriate, we regularly ask for input from people who are impacted by these conditions.

Beginning in 2016, AAFA led a three-part national study about adults with AD in the U.S. in partnership with the National Eczema Association (NEA) and with support from Sanofi Genzyme and Regeneron.

• The general public (“Public Survey”)
• Adults with AD (“Patient Survey”)
• Health care professionals who care for patients with AD (“Physician Survey”)

The purpose of the study, titled Atopic Dermatitis in America, was to:

• Establish the prevalence of AD in the U.S. adult population
• Determine the distribution of AD disease severity in adults
• Understand the burden of disease for adults with AD

This document presents an overview of the study design and methodology. It will be updated with findings upon publication of data in peer-reviewed journals.
STUDY DESIGN

The Atopic Dermatitis in America study gathered data from the GfK Knowledge Panel. This panel is a large probability-based web panel in the U.S. containing 40,000 to 50,000 adult members at any time. It is created from a national address-based sample of households in the U.S. who are recruited to join and receive small incentives for taking part in web surveys. This panel also provides internet access, as well as computer hardware, to households without existing internet access. The GfK panel has been used in other large, population-based epidemiological studies.

An initial cross-sectional sample of 2,137 adults from the GfK panel was invited to participate. Of those, a total of 1,278 adults completed the survey. This sample is the PUBLIC SURVEY and was used to establish the prevalence of AD. They were not told the focus of the survey in the invitation to avoid biases based on interest or disinterest in the subject. Although this sample provided a precise estimate of the prevalence of AD in the adult population, it did not have enough AD patients to see the differences between levels of disease severity.

For that reason, we surveyed an over-sample of 13,713 adults to get 602 adult patients with AD. This sample is the PATIENT SURVEY and used to compare the quality of life among people with mild AD to that of people with moderate-to-severe AD.
DEFINITIONS

AD Disease Criteria. To reach the most accurate population estimate of AD prevalence, the UK Working Party (UKWP) criteria was selected as the screening tool for patient eligibility. To be considered as “an adult with AD,” respondents had to:

- Have an itchy skin condition during the past 12 months AND at least three of the following:
  1. History of skin crease involvement
  2. A personal history of asthma and/or hay fever
  3. A history of general dry skin during the past year
  4. Onset of the skin condition under the age of 2

The UKWP criteria is a widely accepted method for AD definition that eliminates the biases associated with prevalence estimates based on a clinical diagnosis.

AD Disease Severity Definition. AD severity was classified based on these three measures:

- Patient Oriented Eczema Measure (POEM), a validated, self-administered tool, primarily used in clinical trials, to assess patient-reported symptoms in AD. POEM measures the frequency in the past week of seven symptoms related to AD.

- Patient-Oriented SCORing Atopic Dermatitis (PO-SCORAD), a self-assessment score allowing a patient to comprehensively evaluate their AD, using subjective and objective criteria.

- A global self-assessment of AD severity was obtained with the single question, “Would you describe your atopic dermatitis or eczema as mild, moderate or severe?”
SNEAK PEEK AT FINDINGS FROM THE RESEARCH

Overall, the prevalence of AD among adults in the U.S. is 7.3%. This is based on using the strictest UKWP criteria and age of onset under 2 years old.

PREVALENCE OF AD (ONSET UNDER 2 YEARS OLD)

- 7.3% Has AD
- 92.7% Does not have AD

n=1,278 adults (PUBLIC SURVEY)

Of the 602 patients with AD, 60% had mild disease and 40% had moderate or severe disease.

SEVERITY OF AD

- 11% Mild
- 29% Moderate
- 60% Severe

n=602 patients with AD (PATIENT SURVEY)
ACKNOWLEDGMENTS

Study Authors

Julie Block
National Eczema Association; San Rafael, CA

Mark Boguniewicz, MD
National Jewish Health and University of Colorado School of Medicine, Denver, CO

John Boyle PhD
ICF International, Fairfax, VA

Zelma C. Chiesa Fuxench, MD MSCE
Department of Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

Luz Fonacier, MD
NYU Winthrop University Hospital, Mineola, NY

Joel M. Gelfand MD MSCE
Department of Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

Mitchell H. Grayson MD
Nationwide Children’s Hospital and The Ohio State University, Columbus, OH

David J. Margolis MD, PhD
Department of Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

Lynda Mitchell, MA
Asthma and Allergy Foundation of America, Landover, MD (former affiliation)

Peck Y. Ong, MD
Children’s Hospital Los Angeles, University of Southern California, Keck School of Medicine, Los Angeles, CA

Jonathan I. Silverberg, MD PhD MPH
Department of Dermatology, Preventive Medicine and Medical Social Sciences, Feinberg School of Medicine at Northwestern University, Chicago, IL

Lawrence Schwartz, MD
Virginia Commonwealth University, Richmond, VA

Eric L. Simpson, MD
Oregon Health Science University, Portland, OR

Special Thanks

Asthma and Allergy Foundation of America
Jim Bender Tanya Bumgardner Melanie Carver
Sanaz Eftekhar Nicole Gaghan Angel Waldron

National Eczema Association
Lisa Butler Karey Gauthier Wendy Smith Begolka

Sanofi Genzyme and Regeneron