It Takes Two - Type 2 Inflammation

Featuring:

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WHAT ARE ASTHMA, ATOPIC DERMATITIS, CHRONIC RHINOSINUSITIS WITH NASAL POLyps?

LUNGS
- Wheezing
- Coughing
- Shortness of breath
- Chest tightness
- Difficulty breathing
- Asthma attacks that could be life-threatening

SKIN
- Intense, persistent itching
- Skin rashes or lesions with:
  - Redness or darkness
  - Dryness
  - Cracking
  - Oozing
  - Crusting
  - Reduced sense of smell and taste
  - Nasal obstruction and congestion
  - Nasal discharge
  - Sinus inflammation

UPPER AIRWAY
- Chronic rhinosinusitis with nasal polyps (CRSwNP)
  - Reduced sense of smell and taste
  - Nasal obstruction and congestion
  - Nasal discharge

CHRONIC INFLAMMATION IS A COMMON UNDERLYING FACTOR

IN THE U.S., MILLIONS OF PEOPLE HAVE THESE DISEASES

Asthma
- ~25.9 million people (Ages 6+)

Atopic dermatitis
- ~484,000 people (Adults)

These diseases can also coexist in individuals.
WHAT IS THE BURDEN OF THESE DISEASES ON PATIENTS AND THEIR FAMILIES?

Asthma  Atopic dermatitis  CRSwNP

Challenging to Control
- Chronic symptoms that wax and wane unpredictably
- Long-term use of medications
- Increased risk of adverse drug reactions

Impact on Quality of Life
- Sleep disruptions
- Absenteeism at work or school
- Mood disturbances (e.g., anxiety)
- Decreased daily activities

These diseases cost billions of dollars to society and patients – $80 billion in the U.S. for asthma alone.

WHAT ARE THE PERSONAL BURDENS OF THESE DISEASES ON PATIENTS?

TAMMY
Asthma, Allergies
When my asthma is really bad, I stay home. I stay inside. I can watch everything from a distance, but I can’t experience it when I’m out and about.

When I was 12, I missed the first two weeks of sixth grade... when I first came back to school, everything became the norm again. The stress of it all caused the itch of my eczema to flare.

JASON
Atopic Dermatitis (Eczema), Asthma
When I was 10, I missed the first few weeks of sixth grade... when I first came back to school, I sometimes become the center of attention... The stress of it all caused the itch of my eczema to flare.

AMELIA
Nasal Polyps
I was given this great opportunity to speak in front of the CEO of my company... I woke up that morning and I just had a huge polyp flare. And the fact that I had to pass on that because of the polyps just spiralled me out of control for a couple days... I was really upset about it.

THESE DISEASES MAY BE CONNECTED IN PART BY UNDERLYING, EXCESSIVE TYPE 2 INFLAMMATION

• Recent science has shown that excessive type 2 inflammation can impact different tissues and contribute to diseases such as asthma, AD, and CRSwNP
• Type 2 inflammation is mediated by specific, recognized inflammatory pathways
• Type 2 inflammation may help explain some of the unifying features of these diseases

WHAT IS TYPE 2 INFLAMMATION?

These factors can impact disease in different ways:
- Levels of severity
- Ages of onset
- Signs of activity

- Environmental triggers (pollutants, allergens, pathogens)
- Type 2 inflammation
- Disease state
- Eosinophils
- Type 2 inflammation
- Genetic factors

DISEASE

These diseases cost billions of dollars to society and patients – $80 billion in the U.S. for asthma alone.
WHAT ARE THE CHARACTERISTICS OF TYPE 2 INFLAMMATION?

Environmental triggers (infections, allergens, pollutants)

Activated immune cells

Signaling proteins and immune mediators

ACTIVATION OF TYPE 2 INFLAMMATORY PATHWAYS

DISEASE

The body has an excessive type 2 immune response that affects certain tissues, leading to different diseases.

Aspirin-exacerbated respiratory disease (AERD)

Asthma

Food and environmental allergies

Eosinophilic esophagitis (EoE)

Allergic rhinitis (AR)

CPSwNP

OUR UNDERSTANDING OF THE CONTRIBUTION OF TYPE 2 INFLAMMATION IS EXPANDING

PEOPLE WITH THESE DISEASES ARE NOT ALONE

WHY IS TYPE 2 INFLAMMATION IMPORTANT FOR PATIENTS?

People with these diseases are not alone. Why is type 2 inflammation important for patients?

For patients, the type 2 inflammation connection can help share care with their doctor to identify the contributory role that type 2 inflammation plays in their disease, and to better understand their disease.

Ultimately, the type 2 inflammation connection may lead to new, more personalized care.

Questions & Answers

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Moderated by Representative Geran Tarr (AK) with featured speaker Jennifer Sheehy, Deputy Assistant Secretary, Office of Disability Employment Policy, U.S. Department of Labor, Sen. Becky Massey (R-TN), and Jill Houghton, President & CEO, Disability:IN

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