

## Immune System Issues in 22q11.2 Duplication Syndrome

Our **immune system** defends our bodies from bacteria, viruses, cancer cells, and toxins. To do this job properly, it must be able to identify invaders and tell them apart from cells of our own bodies.

When the immune system does not work well, these problems may occur:

- **Immunodeficiency** – the system is too weak to eliminate pathogens
- **Hypersensitivity / allergies** – the system reacts to harmless things
- **Autoimmunity** – the system reacts to the host's own body
- **Chronic inflammation** – the system cannot clear the pathogens even after a long time

This "Immune System Series" provides information on the common problems in individuals with 22q11.2 duplication syndrome (22q11.2DupS). The **Health Conditions Explained** page on our website contains all the information sheets listed below.

### Common Immune System Issues in 22q11.2DS

<u>Issues:</u>	<u>See our info sheet on:</u>
Recurrent infections	<ul style="list-style-type: none"><li>• <a href="#">Immune deficiencies related to T cells</a></li><li>• <a href="#">Immune deficiencies related to B cells</a></li></ul>
Low immunoglobulins / antibodies	<ul style="list-style-type: none"><li>• <a href="#">Immune deficiencies related to B cells</a></li></ul>
Asthma	<ul style="list-style-type: none"><li>• <a href="#">Allergies and Asthma</a></li></ul>
Eczema (Atopic dermatitis)	

Other information sheets related to the immune system include:

- [The Immune System](#)
- [Vaccination](#)
- [Autoimmune Disorders](#)
- [Autoimmune Issues in the GI System](#) (Part of the Gastrointestinal Series)

### Resources

- [Immunodeficiency in 22q11.2 duplication syndrome](#) – 2021
- [Immunologic, Molecular, and Clinical Profile of Patients with Chromosome 22q11.2 Duplications](#) – 2023

### Caution

Problems related to the immune system are common among individuals with 22q11.2 duplication syndrome (22q11.2DupS), but people are affected in different ways. Please check with your immunologist about the best way to manage immune system issues for you or your loved ones.

Individuals evaluated at a **22q Clinical Center of Excellence** ([USA](#) or [International](#)) will be more likely to have providers who are experienced in assessing and treating conditions that are related to the 22q11.2 duplication.

As of January 2025, there are no official clinical recommendations documents for 22q11.2 duplication syndrome. Please see the **Resources** section below for relevant research reports.