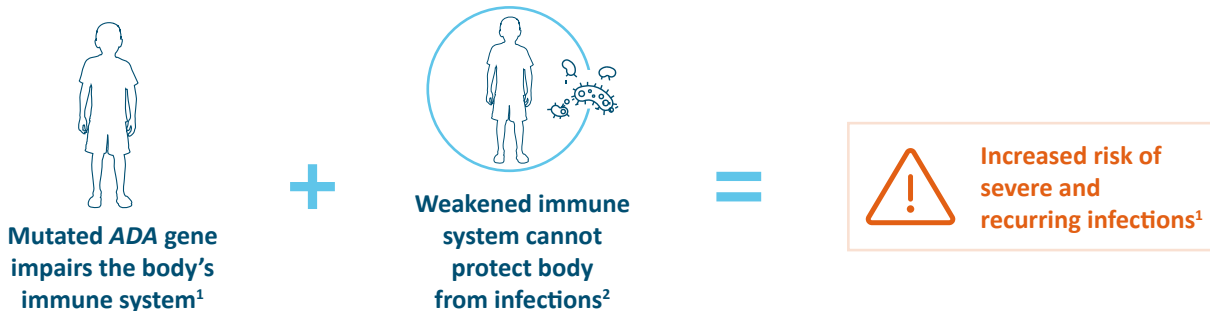


# UNDERSTANDING ADA-SCID

## WHAT IS ADA-SCID?<sup>1</sup>

Adenosine deaminase severe combined immune deficiency (ADA-SCID) is an ultra-rare, inherited genetic disorder, caused by mutations in the adenosine deaminase (*ADA*) gene, that is often fatal if left untreated.<sup>1-3</sup>

The ADA enzyme, which is produced by the *ADA* gene, is found in all cells and most active in lymphocytes, a type of white blood cell that is a key part of the body's immune system.<sup>1</sup> In ADA-SCID, ADA enzyme activity is reduced or eliminated, increasing the risk of severe and recurring infections.<sup>1</sup>



Most babies with ADA-SCID die by the age of 2 years unless they are diagnosed early and effective treatment is started.<sup>3</sup>

## SIGNS AND SYMPTOMS

The most common signs and symptoms of ADA-SCID<sup>1,3</sup>:

- Developmental delays
- Recurrent infections
- Pneumonia<sup>a</sup>
- Slowed growth
- Skin rashes
- Chronic diarrhea



<sup>a</sup> Some lung abnormalities in ADA-SCID, as well as in other types of severe combined immune deficiency (SCID), may be caused by metabolic insufficiency, not just infections.<sup>1</sup>

## INCIDENCE AND PREVALENCE

- Affects approximately **1 in 200,000** to **1 in 1 million** newborns around the world<sup>3</sup>
- Responsible for approximately **15%** of severe combined immune deficiency (SCID) cases<sup>3</sup>

## DIAGNOSIS

ADA-SCID is typically diagnosed within the first few months of life.<sup>1</sup>

Patients can be diagnosed in 2 ways<sup>3</sup>:

- A blood test that measures ADA enzyme activity
- Genetic testing for an ADA gene mutation



Genetic testing involves examining a person's DNA, the chemical database that carries instructions for the body's functions.<sup>3</sup> Genetic testing can reveal mutations in your genes that may cause illness or disease.<sup>3</sup>

Today, all 50 states, the District of Columbia, and Puerto Rico are currently performing newborn screening for SCID, which can also help identify cases of ADA-SCID.<sup>4</sup>

## TREATMENT OPTIONS

Patients should always consult a physician to see which therapy is best for them.



**Hematopoietic stem cell transplant (HSCT)**  
replaces defective immune cells with healthy immune cells from a donor<sup>2</sup>



**Enzyme replacement therapy (ERT)**  
helps to restore immune function<sup>2</sup>

## CHIESI GLOBAL RARE DISEASES: OUR COMMITMENT, YOUR EMPOWERMENT

Chiesi has been focused on the centrality of the patient for decades. To sharpen that focus, Chiesi created a specialty unit dedicated to the development and commercialization of products for rare diseases—**Chiesi Global Rare Diseases**.

We believe that no patient should be left behind, which is why we created a business unit specifically dedicated to those with rare diseases. Patients with rare diseases can encounter many difficulties. Chiesi Global Rare Diseases is here to help ease that burden.

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