

The Immune System and PI

Some people are born with immune systems that don't work as well as others. Each and every day, your body fights off infections, germs, bacteria, and viruses. These invaders, called pathogens, are destroyed by the body's number one defense, the immune system.

Primary immunodeficiencies (PIs) are a group of more than 450 disorders of the immune system with varying degrees of severity. People with PI cannot get rid of pathogens or protect themselves from these pathogens as well as they should, causing frequent infections and other problems that are hard to cure. **Early diagnosis and appropriate treatment can help save lives.**

What Is CGD?

Chronic granulomatous disease (CGD) is a type of PI that is rare, inherited, and potentially life-threatening. CGD can be managed by making health and lifestyle changes, and by taking medicines. CGD is a:



Primary immunodeficiency, which means the immune system does not work properly, leaving patients vulnerable to infection



Genetic disorder that is inherited from one or both parents; it is not contagious



Chronic condition, meaning it is a condition someone will have for all their life



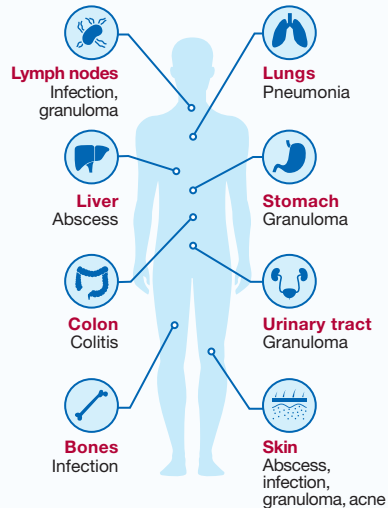
About **20** people

are born with CGD each year in the United States

10 WARNING SIGNS OF CGD

1. Serious, unusual, and repeat infections in many areas of the body, including the lungs, liver, and bones
2. Skin and soft tissue abscesses that don't go away
3. Diarrhea or abdominal pain
4. Pain or difficulty eating or going to the bathroom
5. Vomiting after meals
6. Swollen lymph nodes
7. Fever, cough, fatigue, or bone/joint pain
8. Slowed growth (in children)
9. Granulomas, which usually appear in the bladder and intestines
10. Family members or relatives who have had unusual or serious infections that have resulted in hospitalizations or even death

WHERE CAN PEOPLE WITH CGD EXPERIENCE INFECTIONS AND COMPLICATIONS?



Over time, repeat serious infections can cause permanent damage to the body.

About JMF

Vicki and Fred Modell created the **Jeffrey Modell Foundation (JMF)**, a 501(c)3 global nonprofit organization, in 1987, in memory of their son Jeffrey, who died at the age of 15 from complications of PI—a genetic condition that is chronic, serious, and sometimes fatal.

JMF is devoted to early and precise diagnosis, meaningful treatments, and ultimately, cures—through clinical and basic research, physician education, patient support, advocacy, public awareness, newborn screening, and genetic sequencing.



Curing PI. Worldwide.



...now I have
a chance!♥

info4pi.org

When I
grow up,
I want
to be...



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