

Bringing science to life

Spotlight on... Gaucher disease (GD)

GD is a rare genetic disorder¹

Affects **0.70–1.75** in **100,000** globally, but **1 in ~850** among people of **Ashkenazi Jewish** ethnicity¹

GD is caused by a deficiency of an enzyme called **glucocerebrosidase**²

It leads to a build up of a **fatty substance called glucosylceramide** in cells, which damages tissues and organs²

Three subtypes^{3,4}

Type 1: 94% of cases

Doesn't affect central nervous system (CNS)

Type 2: 1% of cases

Affects CNS; typically fatal by age 2–3 years

Type 3: 5% of cases

Affects CNS and progresses slowly

Prevalence data from Gaucher Registry⁵

Symptoms of GD worsen over time¹

Anaemia & thrombocytopenia

Lung disease

Increased bleeding & bruising

Enlarged liver & spleen

Bone pain & fractures

Neurological impairment

Types 1–3⁶

Types 2 & 3 only^{3,6}

Diagnosis

Blood test for active glucocerebrosidase⁵

Genetic testing to identify carriers⁵



Treatment

GD can't be cured yet, but **symptoms can be treated** with enzyme replacement therapy^{1,3}



Early diagnosis and initiation of treatment may **improve** outcomes for patients with GD⁷

1. Nalysnyk L, et al. *Hematology*. 2017;22(2):65–73. 2. Rosenbloom BE, Weinreb NJ. *Crit Rev Oncog*. 2013;18(3):163–175. 3. Linari S, Castaman G. *Clin Cases Miner Bone Metab*. 2015;12(2):157–164. 4. National Gaucher Foundation. <https://www.gaucherdisease.org/about-gaucher-disease/what-is/type-2-3/>. Accessed 01 Oct 2021. 5. GeneReviews®. <https://www.ncbi.nlm.nih.gov/books/NBK1269/>. Accessed 30 Sep 2021. 6. Nagral A. *J Clin Exp Hepatol*. 2014;4(1):37–50. 7. Peters H, et al. *Int Med J*. 2020;50(S4):5–27.