

Condition: Gaucher disease

Inheritance:

Autosomal recessive

Genetic etiology:

Mutation in *GBA* gene, encoding glucosylceramidase.

Frequency:

Varies in different populations; 1/855 in Ashkenazi Jewish population (for type 1 GD).

Clinical features:

Gaucher disease is a lysosomal disorder in which there is accumulation of glucosylceramide. There are three major clinical subtypes. Type 1 is characterized by bone disease (lytic lesions, osteopenia), hepatosplenomegaly, anemia, thrombocytopenia, and lung disease. The nervous system is not involved in Type 1. Types 2 and 3 have progressive neurological impairment, with type 3 characterized by later age of onset and slower progression.

Management:

Supportive care and monitoring; enzyme replacement therapy by intravenous infusion benefits those with type 1, and, to some extent type 3.

Genetic counseling:

Based on autosomal recessive inheritance; genetic testing is available and can be used for carrier detection.