

TREATMENT OF GAUCHER DISEASE

GAUCHER DISEASE TYPES 1 AND 3 ARE TREATABLE

Gaucher disease types 1 and 3 can be treated by^{1,2}:

- Enzyme replacement therapy (ERT)
- Bone marrow transplant (BMT)

The morbidity and mortality associated with BMT limit its utilisation in individuals with Gaucher disease types 1 and 3.²

Thus, **BMT has been largely superseded by ERT.**²

Treatment for Gaucher disease type 2²

- It is not clear if brain damage can be reversed once it has manifested.
- Pre-symptomatic diagnosis or in utero therapy may be necessary to mitigate the neuronal loss.

IMIGLUCERASE IS CLINICALLY EFFECTIVE IN GAUCHER DISEASE TYPES 1 AND 3³

Imiglucerase is a recombinant DNA-produced analogue of human β -glucocerebrosidase.³

Imiglucerase is suitable for³:

Gaucher disease type 1

Gaucher disease type 3 without neurological symptoms

Imiglucerase has been the **standard of care** for the treatment of Gaucher disease patients since its introduction in 1994.⁴

GAUCHER DISEASE PATIENTS ACHIEVE MULTIPLE THERAPEUTIC GOALS WITH IMIGLUCERASE

Reduced spleen volume^{3,4,5}



Reduced liver volume^{4,5}



Reduced bone crises^{5,6}



Increased platelet count^{4,5}



Increased haemoglobin levels^{4,5}



Improved bone pain^{5,6}



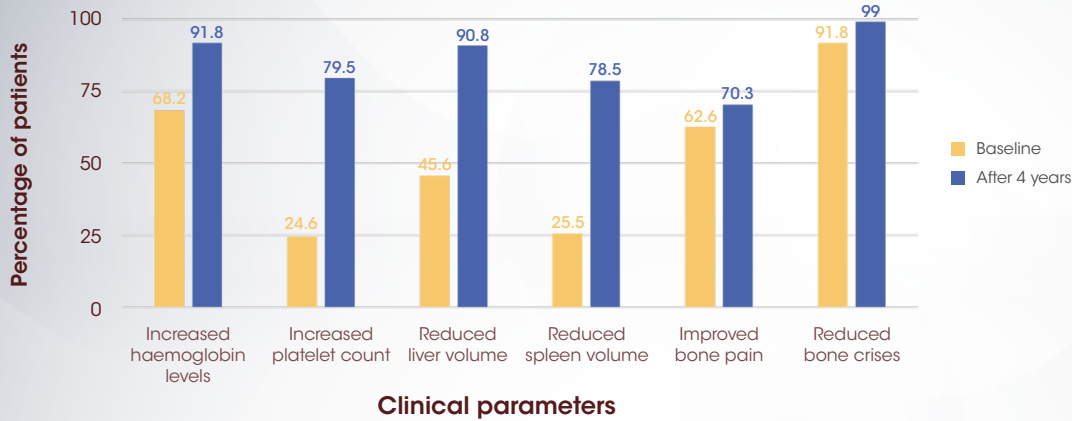
Improved bone mineral density⁶



Improved bone marrow infiltration⁵



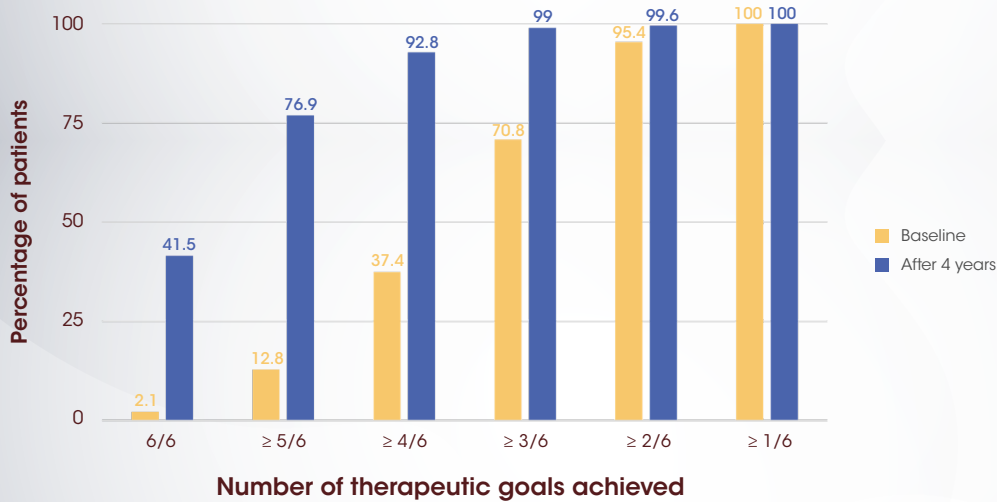
MORE PATIENTS ACHIEVE THERAPEUTIC GOALS OVER 4 YEARS OF IMIGLUCERASE TREATMENT⁴



At least 70% of patients achieve each individual therapeutic goal after 4 years of treatment.⁴

Adapted from Weinreb NJ, et al. Am J Hematol. 2008.

OVER 90% OF PATIENTS ACHIEVE AT LEAST 4 THERAPEUTIC GOALS AFTER 4 YEARS OF IMIGLUCERASE TREATMENT⁴



Over 40% of patients meet all 6 therapeutic goals after 4 years of treatment.⁴

Adapted from Weinreb NJ, et al. Am J Hematol. 2008.

TEN YEARS OF IMIGLUCERASE TREATMENT REVEALS SUSTAINABLE IMPROVEMENTS IN ALL PARAMETERS

Non-splenectomised patients⁷

Improved parameter	Mean change after 10 years	p-value
Increased hemoglobin levels (g/dL)	+ 2.4	< 0.0001
Increased platelet count (x 10 ³ /mm ³)	+ 71.3	< 0.0001
Reduced spleen volume (multiples of normal)	- 14.3	< 0.0001
Reduced liver volume (multiples of normal)	- 0.8	< 0.0001

Adapted from Weinreb NJ, et al. J Inherit Metab Dis. 2013.

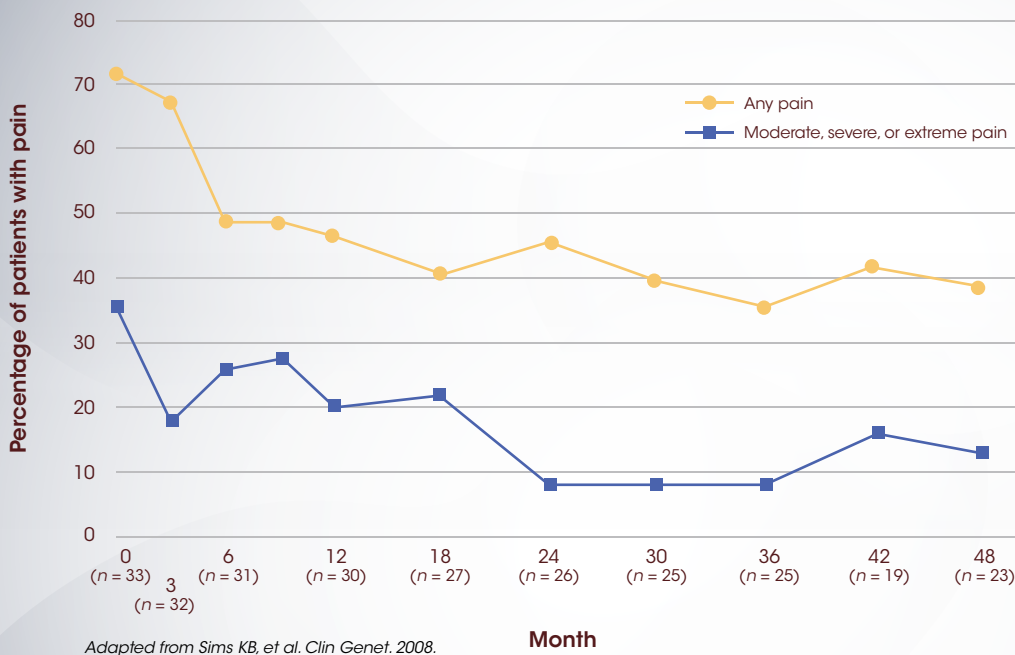
TEN YEARS OF IMIGLUCERASE TREATMENT REVEALS SUSTAINABLE IMPROVEMENTS IN ALL PARAMETERS

Splenectomised patients⁷

Improved parameter	Mean change after 10 years	p-value
Increased hemoglobin levels (g/dL)	+ 1.5	< 0.0001
Increased platelet count (x 10 ³ /mm ³)	+ 73.4	< 0.0001
Reduced liver volume (multiples of normal)	- 1.2	< 0.0001

Adapted from Weinreb NJ, et al. J Inherit Metab Dis. 2013.

PATIENTS REPORTED IMPROVED BONE PAIN WITH IMIGLUCERASE TREATMENT



Improvement in bone pain was observed at 3 months ($p = 0.001$ vs. baseline), and continued progressively throughout the 48-month study.⁶

Substantial improvements were also observed in bone crises and bone mineral density.⁶

GOOD TOLERANCE OF IMIGLUCERASE ALLOWS FOR IMPROVED PATIENT QUALITY OF LIFE⁵

Adverse events considered related to imiglucerase are usually mild to moderate.⁵

Chills, Pyrexia, Pruritus, Rashes, Urticaria, Dyspnoea

Between 1994 and 2004, **only 4 out of 4237** patients who received imiglucerase were stopped therapy due to infusion reactions.⁸

No serious adverse events were reported with imiglucerase.⁵

Each of these events occur in **<1%** of the total patient population.⁸

*Non-splenectomised patients.

For healthcare professionals only

References

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