### Supplemental Data Table 2.

**Information on DBS from Affected Patients and Heterozygote Carriers**

<table>
<thead>
<tr>
<th>Enzyme</th>
<th>Patient number</th>
<th>Patient gender</th>
<th>Patient Age when DBS was made (yrs)</th>
<th>Date DBS was made (month/day/year)</th>
<th>Storage of DBS</th>
<th>Enzyme activity 5 mm DBS extract (µmol/hr/L blood)</th>
<th>Enzyme activity 2 mm DBS per reaction (µmol/hr/L blood)</th>
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GLA    | FD1    | M  | 6     | 10/16/2001 | 4°C | 0.08 | 0   |
GLA    | FD2    | M  | 8     | 6/12/2002  | 4°C | 0.08 | 0.11 |
GLA    | FD3    | M  | 12    | 1/24/2002  | 4°C | 0.13 | 0   |
GLA    | FD4    | M  | 38    | 4/8/2002   | 4°C | 0.01 | 0   |
GLA    | FD5    | M  | 20    | 5/20/2003  | 4°C | 0.17 | 0.25 |
GLA    | FC1    | F  | 32    | 11/7/2001  | 4°C | 1.51 | 5.17 |
GLA    | FC2    | F  | 68    | 2/28/2002  | 4°C | 0.34 | 0.59 |
GLA    | FC3    | F  | 44    | 2/28/2002  | 4°C | 0.97 | 4.02 |
GLA    | FC4    | F  | 35    | 6/12/2002  | 4°C | 0.68 | 1.26 |
GLA    | FC5    | F  | 45    | 5/26/2003  | 4°C | 0.58 | 1.03 |

1GD: GD1 is Gaucher disease affected patients number 1, GC1 is Gaucher disease heterozygote carrier number 1. Likewise for other patients.

2DBS were stored at the indicated temperature in zip-lock plastic bags (1 closed bag inside a second closed bag). DBS were kept at ambient temperature for < 10 days (during shipment).

3For ABG, ASM, GAA, and GLA, all of the above DBS were used to obtain the data in Figures 6 and 7 of the main text. For GALC, only DBS obtained in 2003 were used to
obtain the data in Figures 6 and 7 of the main text. All enzyme activity measurements were made in March and April, 2004.

4nd means data is not available.