

**Supplemental Table S1. Patient organ volumes.**

	Spleen			Liver	
	Age (yrs)	Volume (ml)	MN	Volume (ml)	MN
Patient 1	30.3	769	4.9	2109	1.1
	31.4	643	3.8	1754	0.8
	33.1	821	4.8	1800	0.8
	34.8	406	2.3	1429	0.6
	36.8	459	2.8	1840	0.9
	38.1	428	2.7	1644	0.8
	39.9	364	2.2	1663	0.8
	41.0	368	2.2	1742	0.8
	44.3	<b>319</b>	<b>1.8</b>	1622	0.7
	46.4	<b>306</b>	<b>1.7</b>	1724	0.8
	49.7	<b>254</b>	<b>1.3</b>	1649	0.7
Patient 2	12.4	870	13.3	1098	1.3
	13.4	555	6.5	1097	1.0
	15.0	569	5.2	1119	0.8
	16.3	527	4.8	1163	0.8
	17.9	408	3.4	1183	0.8
	24.1	535	3.9	1497	0.9
	27.1	555	3.6	1474	0.8
Patient 3	30.2	1300	7.4	2600	1.2
	32.2	673	3.8	2200	1.0
	37.5	498	2.6	2186	0.9
	38.8	526	2.7	2543	1.0
	40.2	474	2.4	2294	0.9
	42.1	506	2.4	2594	1.0
	44.5	394	2.0	2182	0.9
	47.0	417	2.1	2557	1.0
Patient 4	62.1	382	3.1	1593	1.0
	64.9	345	2.9	1502	1.0
Patient 5	40.7	1906	16.5	1671	1.2
	41.7	1839	16.2	1851	1.3
	43.9	1632	13.7	1951	1.3
	44.9	1440	11.7	1605	1.0
	45.9	1494	12.5	1732	1.2
	47.5	954	8.0	1797	1.2
Patient 6	1.8	355	16.0	631	2.3
	2.8	125	4.6	476	1.4
	4.0	90	2.9	210	0.5
	4.9	130	3.8	595	1.4
	5.9	141	3.9	763	1.7
	6.6	134	3.3	622	1.2
	7.5	151	3.4	775	1.4
	11.4	168	2.8	978	1.3
	13.6	204	2.8	1001	1.1
	15.9	278	2.9	1372	1.2
	17.9	225	2.2	1149	0.9
	19.9	269	2.6	1285	1.0
	22.3	677	6.5	1804	1.4
	25.0	995	8.7	2208	1.5
Patient 7	18.4	2055	16.0	2286	1.4
	18.9	1288	9.7	2043	1.2
	19.4	1109	8.0	1947	1.1
	19.9	993	7.5	1859	1.1
	20.4	1000	7.3	2031	1.2
	20.9	900	6.8	2030	1.2
	22.0	751	5.8	2092	1.3
	23.0	694	5.3	1750	1.1
	24.2	580	4.7	1864	1.2
	36.1	592	4.5	1584	1.0
	41.1	363	2.7	1521	0.9
	44.3	315	2.2	1761	1.0
	46.3	<b>283</b>	<b>1.9</b>	1915	1.0

Gray shading denotes treatment switch to velaglycerase alfa.

Blue shading denotes treatment switch to eliglustat.

Bold numbers denotes normal splenic volume.