

Table S1: Laboratory parameters of SLU- and SLU+ patients according to  $\alpha$ -3.7Kb thalassemia.

	$\alpha\alpha/\alpha\alpha$ , n = 52			$-\alpha/\alpha\alpha$ and $-\alpha/-\alpha$ , n = 15		
Hematological biomarkers	SLU- (n=39)	SLU+ (n=13)	<i>P-value</i>	SLU- (n=12)	SLU+ (n=3)	<i>P-value</i>
RBC, $\times 10^6/\mu\text{L}$	3.79 $\pm$ 1.03	2.66 $\pm$ 1.05	<b>0.002*</b>	3.04 $\pm$ 1.07	2.39 $\pm$ 0.36	<b>0.043*</b>
Hemoglobin, g/dL	11.0 $\pm$ 2.85	9.35 $\pm$ 2.64	<b>0.049*</b>	10.3 $\pm$ 1.49	7.80 $\pm$ 1.80	<b>0.036*</b>
Hematocrit, %	33.9 $\pm$ 7.46	28.1 $\pm$ 7.79	<b>0.021*</b>	32.1 $\pm$ 5.11	24.0 $\pm$ 5.32	<b>0.034*</b>
MCV, fL	92.3 $\pm$ 14.4	110 $\pm$ 17.0	<b>0.001</b>	91.4 $\pm$ 10.9	113 $\pm$ 5.51	<b>0.022*</b>
MCH, pg	30.5 $\pm$ 4.98	36.5 $\pm$ 5.67	<b>0.001</b>	30.1 $\pm$ 3.75	36.9 $\pm$ 1.55	<b>0.022*</b>
MCHC, g/dL	33.0 $\pm$ 1.00	33.2 $\pm$ 0.78	0.655	33.2 $\pm$ 0.41	32.4 $\pm$ 0.35	<b>0.031*</b>
RDW, %	17.3 $\pm$ 2.85	17.0 $\pm$ 3.19	0.750	18.3 $\pm$ 2.51	18.5 $\pm$ 3.21	0.908
Hemolytic biomarkers						
LDH, U/L	544 $\pm$ 280	784 $\pm$ 387	<b>0.025</b>	518 $\pm$ 143	813 $\pm$ 277	<b>0.046</b>
Total bilirubin, mg/dL	1.30 $\pm$ 1.16	2.88 $\pm$ 2.27	<b>0.039</b>	1.63 $\pm$ 0.83	3.60 $\pm$ 2.15	<b>0.028</b>
Direct bilirubin, mg/dL	0.25 $\pm$ 0.30	0.33 $\pm$ 0.18	0.388	0.27 $\pm$ 0.09	0.30 $\pm$ 0.10	0.742
Indirect bilirubin, mg/dL	1.05 $\pm$ 0.96	2.55 $\pm$ 2.24	<b>0.045</b>	1.33 $\pm$ 0.79	3.30 $\pm$ 2.10	<b>0.024</b>
AST, U/L	27.4 $\pm$ 17.4	53.9 $\pm$ 35.1	<b>0.026</b>	35.1 $\pm$ 19.5	95.0 $\pm$ 74.9	<b>0.035</b>
GGT, U/L	43.8 $\pm$ 27.3	84.3 $\pm$ 63.5	<b>0.019*</b>	38.7 $\pm$ 21.5	100 $\pm$ 93.3	0.064
Uric acid, mg/dL	5.38 $\pm$ 1.88	6.62 $\pm$ 2.84	0.092	4.79 $\pm$ 1.79	6.45 $\pm$ 2.19	0.252*
Iron, mcg/dL	97.5 $\pm$ 38.7	138 $\pm$ 46.8	<b>0.005*</b>	121 $\pm$ 52.7	265 $\pm$ 82.0	<b>0.005</b>
Ferritin, ng/mL	319 $\pm$ 337	298 $\pm$ 289	0.842	311 $\pm$ 222	296 $\pm$ 392	0.936
Nitric oxide metabolism						
NOM, $\mu\text{M}$	49.2 $\pm$ 20.4	52.2 $\pm$ 23.5	0.762*	46.2 $\pm$ 20.1	27.6 $\pm$ 3.16	0.070*

SLU-, patients without sickle leg ulcers; SLU+, patients with active sickle leg ulcers or previous history; RBC, red blood cell; MCV, mean cell volume; MCH, mean corpuscular hemoglobin; MCHC, mean corpuscular hemoglobin concentration; RDW, red cell distribution width; LDH, lactate dehydrogenase; AST, aspartate aminotransferase; GGT, gamma-glutamyl transferase; NOM, nitric oxide metabolites. *P*-value obtained using independent t-test. \**P*-value obtained using Mann-Whitney *U* test. Bold values indicate significance at *P* < 0.05.