

Supplemental data 2: Biomarkers of oxidative stress and hemolytic index for the 301 patients with SCA according to the alpha-thalassemia genotype.

	Alpha-thalassemia			p
	Wild	Het	Mute	
	n = 235	n = 59	n = 7	
<u>Oxidative stress products</u>				
AOPP (μmol/L)	51 ± 16	48 ± 16	41 ± 18	0.18
MDA (μmol/L)	39 ± 14	34 ± 8	33 ± 9	0.03
<u>Pro-oxidant enzymes</u>				
XO (mmol/L/min)	0.84 ± 0.16	0.85 ± 0.14	0.90 ± 0.57	0.58
MPO (mmol/L/min)	0.68 ± 0.78	0.38 ± 0.42	0.10 ± 0.8	0.003
<u>Anti-oxidants enzymes</u>				
Catalase (mmol/L/min)	4.7 ± 2.3	4.1 ± 1.8	3.8 ± 3.0	0.13
GPX (mmol/L/min)	47.8 ± 36.1	51.2 ± 40.9	34.0 ± 12.5	0.48
SOD (mmol/L/min)	11.1 ± 3.4	11.0 ± 2.4	12.0 ± 1.2	0.11
<u>Hemolysis index</u>	0.06 ± 1.06	- 0.13 ± 0.72	- 0.83 ± 0.58	0.035

AOPP: advanced oxidation protein products; MDA: malonedialdehyde; XO: xanthine oxidase; MPO: myeloperoxidase; GPX: glutathion peroxidase; SOD: superoxide dismutase; n: number of patients. Mean values +/- standard deviation.