

**Supplemental data 1. Biomarkers of oxidative stress in SS children and AA controls.**

Markers	SS (N = 301)	AA (N = 25)	*p
AOPP (μmol/L)	50.1 ± 16.2	19.8 ± 15.3	< 0.001
MDA (μmol/L)	37.8 ± 13.1	11.3 ± 9.3	< 0.001
XO, mmol/L/min	0.80 ± 0.1	0.91 ± 0.2	0.01
MPO, mmol/L/min	0.6 ± 0.5	0.6 ± 0.5	0.7
CAT, mmol/L/min	4.5 ± 2.2	2.8 ± 1.8	< 0.001
GPX, mmol/L/min	48.1 ± 36.8	70.1 ± 14.0	< 0.001
SOD, mmol/L/min	10.4 ± 3.3	11.8 ± 3.5	0.04

AOPP: advanced oxidation protein products; MDA: malonedialdehyde; XO: xanthine oxidase; MPO: myéloperoxidase; CAT: catalase; GPX: glutathion peroxidase; SOD: superoxide dismutase; N: number of patients. Mean values ± standard deviation.