

Supplemental data 3: Biomarkers of oxidative stress for the 301 patients with SCA according to the main clinical complications on the last 2 years

	Osteonecrosis			Sepsis			Stroke			Acute splenic sequestration			Osteomyelitis		
	No n = 292	Yes n = 9	<i>p</i>	No n = 295	Yes n = 6	<i>p</i>	No n = 289	Yes n = 12	<i>p</i>	No n = 293	Yes n = 8	<i>p</i>	No n = 286	Yes n = 15	<i>p</i>
<u>Oxidative stress products</u>															
AOPP (μmol/L)	50 ± 16	60 ± 19	0.06	50 ± 16	45 ± 17	0.52	50 ± 16	51 ± 24	0.93	50 ± 16	49 ± 5	0.63	50 ± 16	47 ± 10	0.34
MDA (μmol/L)	38 ± 13	35 ± 11	0.78	38 ± 13	31 ± 9	0.17	38 ± 13	35 ± 11	0.48	38 ± 13	40 ± 7	0.57	38 ± 13	33 ± 10	0.16
<u>Pro-oxidant enzymes</u>															
XO (mmol/L/min)	0.84 ± 0.16	0.86 ± 0.10	0.80	0.84 ± 0.16	0.90 ± 0.12	0.43	0.84 ± 0.16	0.84 ± 0.16	0.90	0.84 ± 0.16	0.94 ± 0.11	0.11	0.85 ± 0.17	0.85 ± 0.14	0.98
MPO (mmol/L/min)	0.6 ± 0.7	0.6 ± 0.6	0.93	0.6 ± 0.7	0.3 ± 0.2	0.29	0.6 ± 0.7	0.4 ± 0.3	0.22	0.6 ± 0.7	0.4 ± 0.4	0.40	0.6 ± 0.7	0.8 ± 0.9	0.37
<u>Anti-oxidant enzymes</u>															
MnSOD (mmol/L/min)	10.3 ± 3.3	10.8 ± 2.5	0.64	10.4 ± 3.3	11.4 ± 2.5	0.47	10.4 ± 3.4	10.1 ± 2.7	0.74	10.4 ± 3.3	8.2 ± 3.0	0.06	10.4 ± 3.4	10.1 ± 3.7	0.72
Catalase (mmol/L/min)	4.5 ± 2.2	5.0 ± 2.2	0.58	4.5 ± 2.2	4.0 ± 1.4	0.49	4.6 ± 2.2	4.2 ± 1.9	0.61	4.6 ± 2.2	4.4 ± 2.2	0.86	4.6 ± 2.2	4.3 ± 1.7	0.50
GPX (mmol/L/min)	47.3 ± 36	72.6 ± 53.8	0.04	48.3 ± 39.0	40.1 ± 25.0	0.59	48.2 ± 37.1	45.8 ± 29.4	0.82	48.6 ± 37.1	31.3 ± 14.0	0.19	48.0 ± 35.4	50.4 ± 59.2	0.81

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