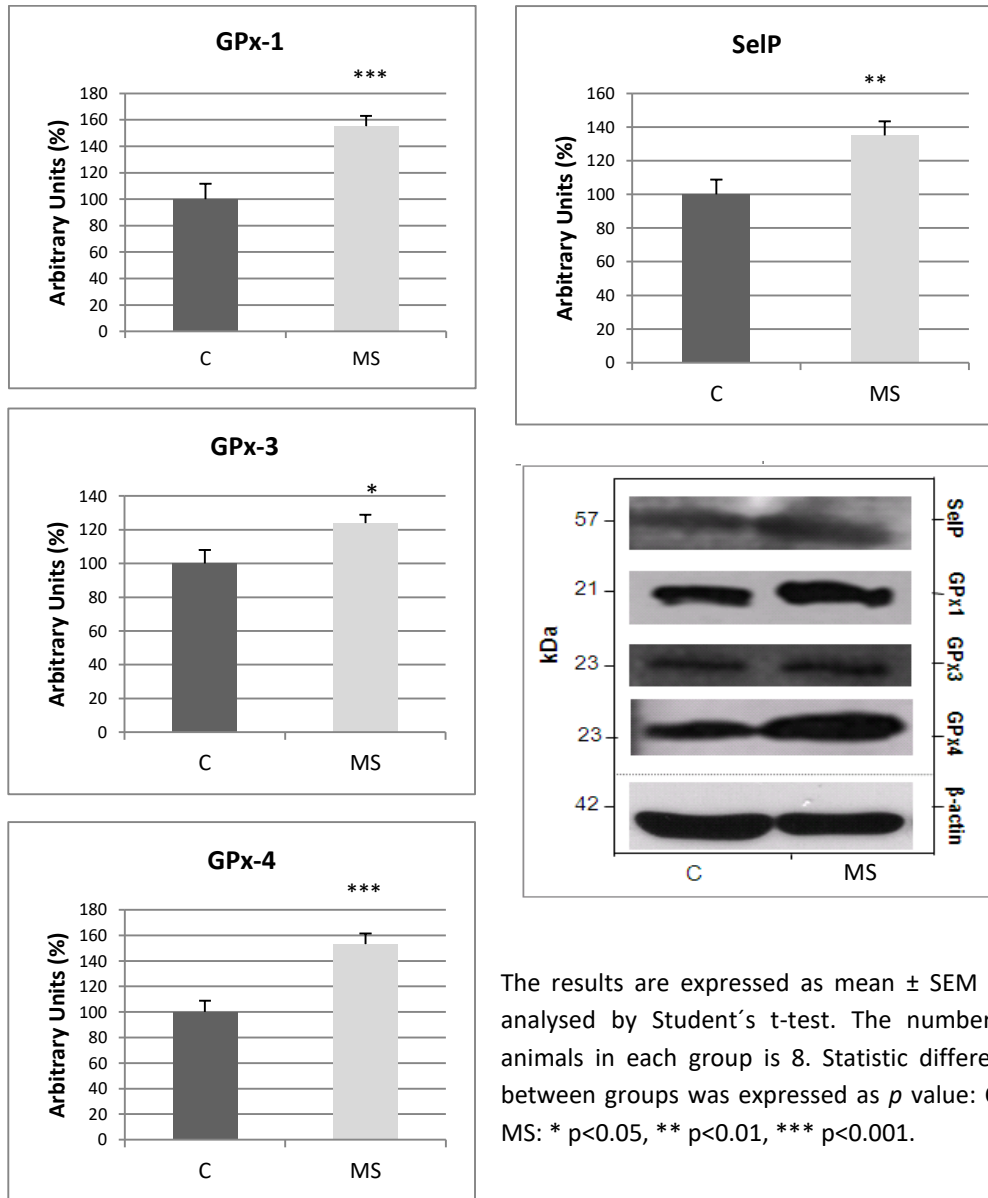


	C	MS	
PREGNANT DAMS	Initial body weight (g)	194.1 ± 6.1	190.9 ± 5.7
	Solid Kcal intake (Kcal/day)	74.1 ± 1.7	73.2 ± 4.3
	Se intake (µg/day)	1.85 ± 0.04	1.83 ± 0.11
	Serum glucose (mg/dl)	124.8 ± 2.4	327.5 ± 6.9***
	Systolic Blood Pressure (mmHg)	110.2 ± 3.3	133.6 ± 4.2***
LACTATING DAMS	Solid kcal intake (kcal/day)	179.7 ± 11.8	145.7 ± 9.3 *
	Se intake (µg/day)	5.1 ± 0.3	4.3 ± 0.2 *
	Weight gain (g)	49.4 ± 2.9	40.3 ± 2.1 *
	Serum glucose (mg/dl)	214.8 ± 6.3	221.8 ± 5.9
	Systolic Blood Pressure (mmHg)	116.42 ± 3.3	122.56 ± 0.9*
OFFSPRING 21day old	Milk intake (µg/30 min sucklig)	0.51 ± 0.03	0.39 ± 0.03**
	Se intake by milk (µg/30 min sucklig)	0.132 ± 0.002	0.102 ± 0.003**
	Weight (g)	34.7 ± 0.7	26.50 ± 0.5 ***
	Kidney weight (g)	0.53 ± 0.07	0.46 ± 0.03
	Kidney somatic index (KSI)	1.52 ± 0.05	1.71 ± 0.06 *
	Protein in kidney (mg/ml)	7.2 ± 0.4	6.1 ± 0.3 *
	Se in kidney (µg/g dry tissue)	0.59 ± 0.03	0.91 ± 0.03***
	Serum glucose (mg/dl) Pups 28 days old	148.4 ± 6.4	156.5 ± 5.9
	Systolic Blood Pressure (mmHg) Pups 28 days old	109.2 ± 2.3	116.6 ± 1.2*

Table 1. Nutritional parameters in dams and pups. The results are expressed as mean ± SEM and analysed by Student's t-test. The number of animals in each group of dams is 6, and in pups is 8. Statistic difference between groups was expressed as *p* value: C vs MS: * *p*<0.05, ** *p*<0.01, *** *p*<0.001.

Figure 1. Expression of selenoproteins (GPx1, GPx3, GPx4 and SelP), in kidney of 21d old pups. Representative western blots of these proteins (normalized to β -actin).



The results are expressed as mean \pm SEM and analysed by Student's t-test. The number of animals in each group is 8. Statistic difference between groups was expressed as *p* value: C vs MS: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

Figure 2. Oxidative balance in the kidneys of 21d old pups: SOD activity, CAT activity, GPx activity, GR activity and lipid oxidation.

The results are expressed as mean \pm SEM and analysed by Student's t-test. The number of animals in each group is 8. Statistic difference between groups was expressed as *p* value: C vs MS: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

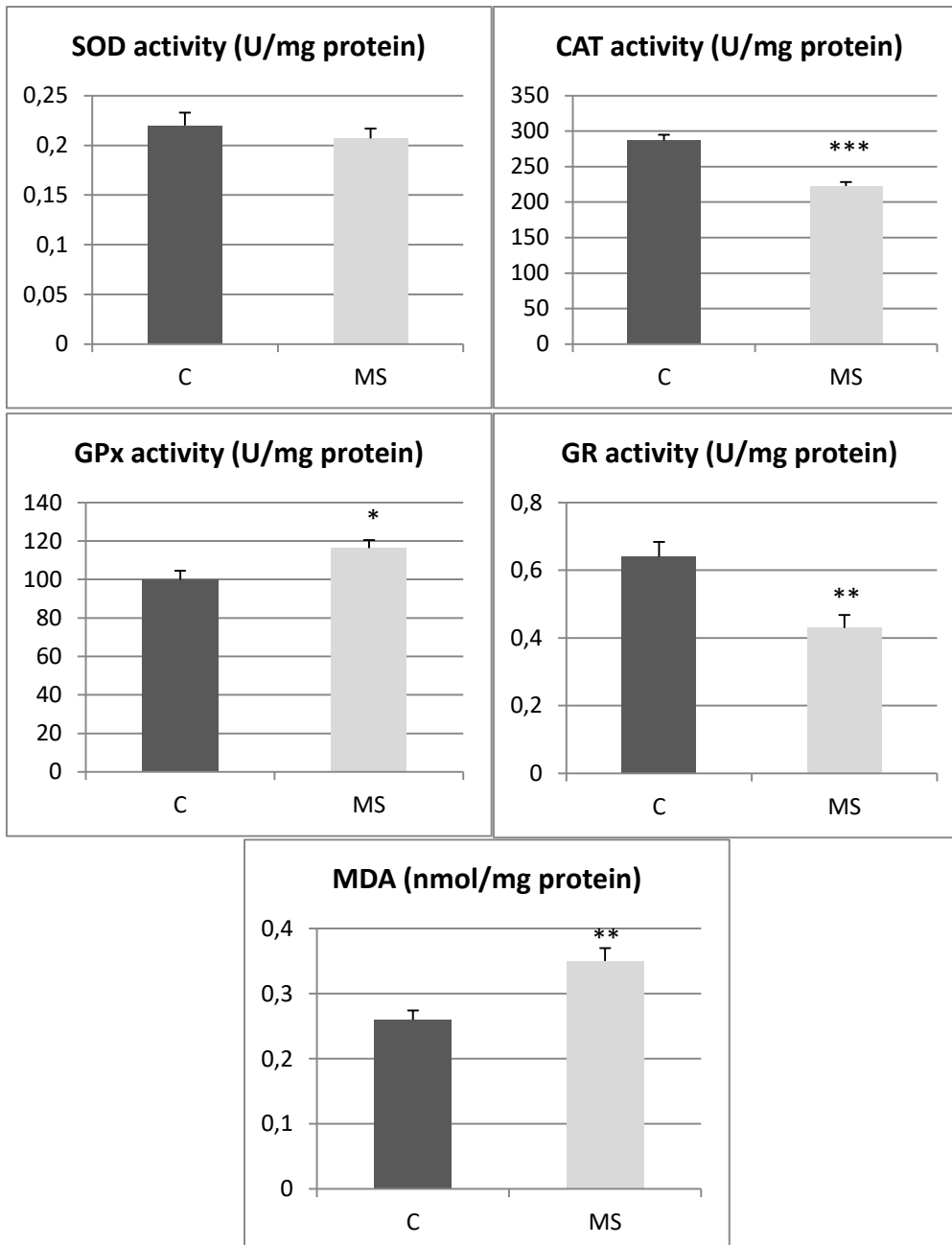


Figure 3. Kidneys energetic and inflammatory profile in 21d old pups. Expression of AMPK-t, AMPK-p and active NFkB. Representative western blots of these proteins (normalized to β -actin).

The results are expressed as mean \pm SEM and analysed by Student's t-test. The number of animals in each group is 8. Statistic difference between groups was expressed as *p* value: C vs MS: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

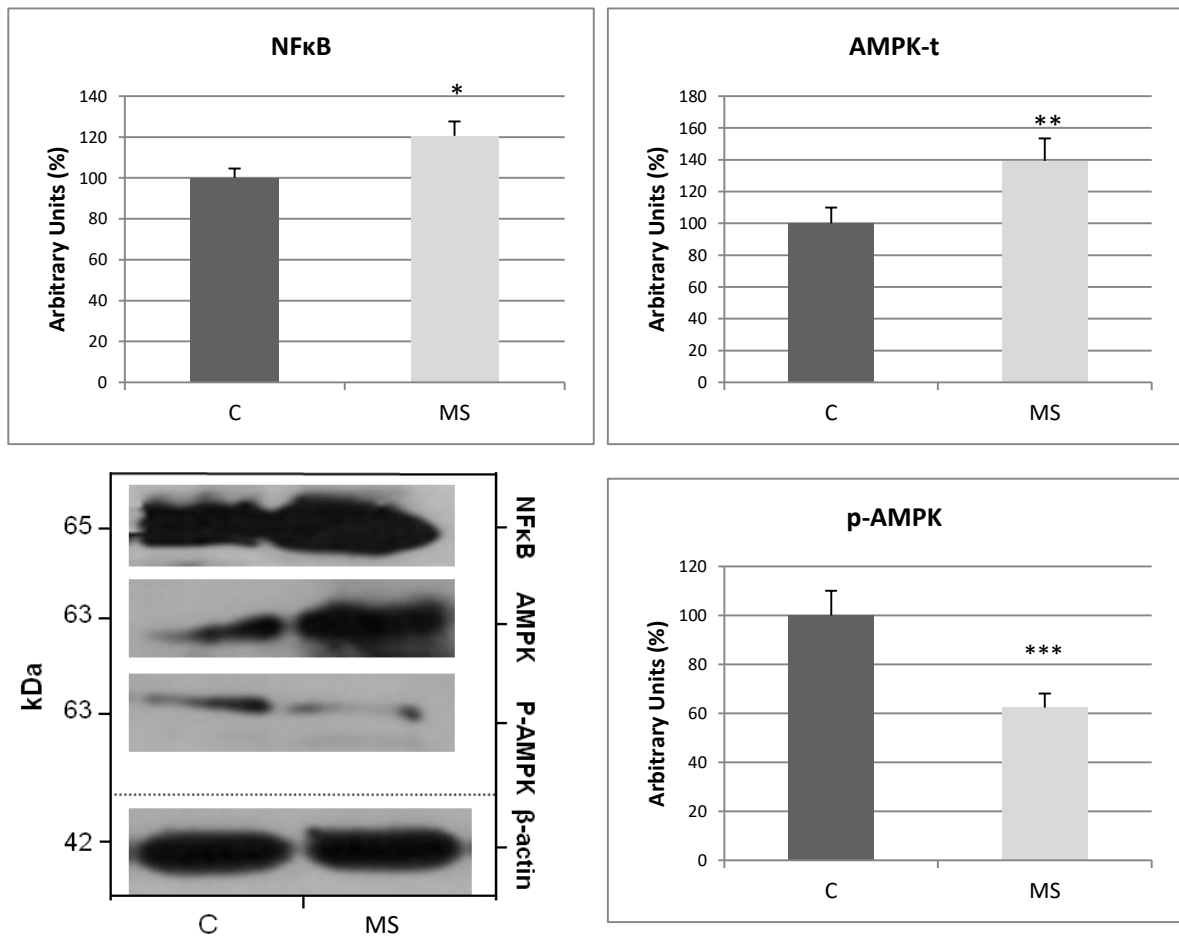
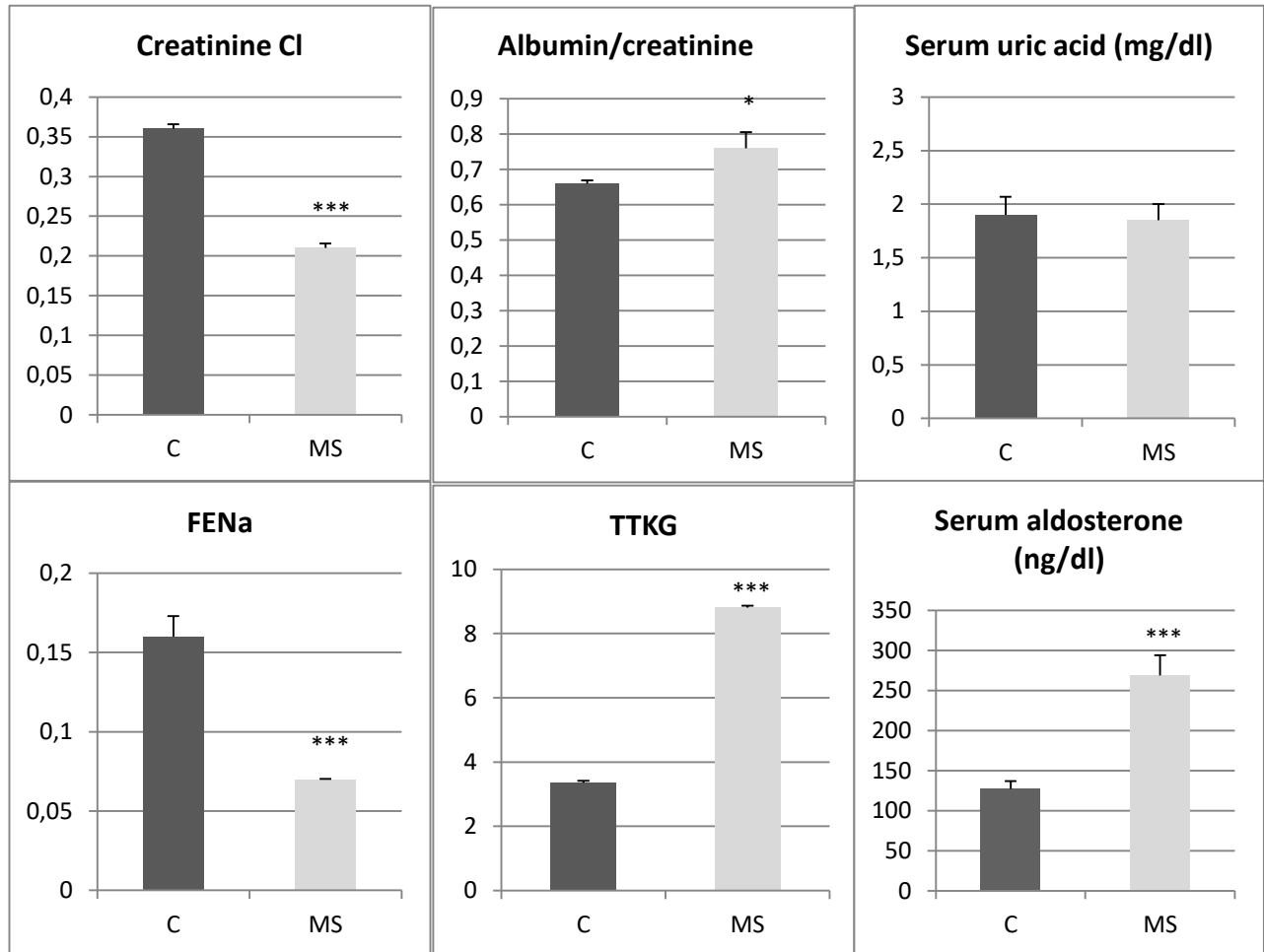


Table 2. Results in 21d old pups: Creatinine, Na⁺, K⁺, Urea and Selenium in serum and urine, and their relative clearances. Urinary flow, osmolality and serum osmolality.

Parameters		C	MS
SERUM	Creatinine (mg/dL)	0.19 ± 0.01	0.33 ± 0.02 ***
	Na ⁺ (mmol/L)	140.5 ± 0.7	143.3 ± 0.9 *
	K ⁺ (mmol/L)	6.4 ± 0.4	6.6 ± 0.6
	Urea (mg/dL)	25.9 ± 2.8	49.1 ± 4.9 **
	Selenium (µg/L)	314.6 ± 18.1	304.3 ± 25.1
	Osmolality (mosm/L)	301.3 ± 30.1	306.6 ± 30.6
URINE	Urinary flow (ml/day)	4.5 ± 0.4	2.1 ± 0.2 ***
	Creatinine (mg/dL)	24.9 ± 2.3	28.7 ± 1.1
	Na ⁺ (mmol/L)	20.1 ± 0.6	8.5 ± 0.4 ***
	K ⁺ (mmol/L)	28.5 ± 1.9	51.6 ± 0.9 ***
	Urea (mg/dL)	1567 ± 105	3807 ± 201 ***
	Selenium (ng/day)	10.7 ± 0.6	3.1 ± 0.3 ***
	Osmolality (mosm/L)	0.19 ± 0.02	0.41 ± 0.04 ***
	Albumin (mg/dL)	16.6 ± 1.4	23.4 ± 1.4 **
RELATIVE CLEARANCES	CL Na ⁺ /CL creatinine	0.122 ± 0.011	0.045 ± 0.004 ***
	CL K ⁺ /CL creatinine	3.8 ± 0.4	5.5 ± 0.6 *
	CL Urea/CL creatinine	52 ± 5	69 ± 7
	CL Se/CL creatinine	0.059 ± 0.006	0.014 ± 0.001 ***

The results are expressed as mean ± SEM and analysed by Student's t-test. The number of animals in each group is 8. Statistic difference between groups was expressed as *p* value: C vs MS: * *p*<0.05, ** *p*<0.01, *** *p*<0.001.

Figure 4. Results in 21d old pups: renal function parameters: creatinine clearance, albumin/creatinine ratio, serum uric acid, fractional excretion of Na⁺ (FENa), transtubular K⁺ excretion (TTKG) and serum aldosterone levels.



The results are expressed as mean \pm SEM and analysed by Student's t-test. The number of animals in each group is 8. Statistic difference between groups was expressed as *p* value: C vs MS: * *p*<0.05, *** *p*<0.001.