

Supplementary Table S1. Histopathologic features of rat groups under study, at the end of protocol

	(Total n= 23)		Sham (n = 8)		CKD 1-2 (n = 8)		CKD 3-4 (n = 7)		P
	Absent n (%)	Present n (%)	Absent	Present	Absent	Present	Absent	Present	
Mild Glomerular Lesions									
Glomerular Hypertrophy	8 (34.8)	15 (65.2)	8 (100)	0	0	8 (100)	0	7 (100)	< 0.001
Crescent-like structures	1 (4.3)	22 (95.7)	0	8 (100)	1 (12.5)	7 (87.5)	0	7 (100)	0.375
Dilatation of Bowman's space	8 (34.8)	15 (65.2)	8 (100)	0	0	8 (100)	0	7 (100)	< 0.001
GBM Thickening	11 (47.8)	12 (52.2)	8 (100)	0	3 (37.5)	5 (62.5)	0	7 (100)	< 0.001
Advanced Glomerular Lesions									
Glomerular "Blebbing"	18 (78.3)	5 (21.7)	8 (100)	0	7 (87.5)	1 (12.5)	3 (42.9)	4 (57.1)	0.02
Glomerular Atrophy	12 (52.2)	11 (47.8)	8 (100)	0	4 (50.0)	4 (50.0)	0	7 (100)	< 0.001
Glomerulosclerosis	16 (69.6)	7 (30.4)	8 (100)	0	8 (100)	0	0	7 (100)	< 0.001
Mild Tubulointerstitial Lesions									
Tubular dilatation	13 (56.5)	10 (43.5)	8 (100)	0	5 (62.5)	3 (37.5)	0	7 (100)	< 0.001
Interst. Inflamm. Infilt.	13 (56.5)	10 (43.5)	7 (87.5)	1 (12.5)	6 (75.0)	2 (25.0)	0	7 (100)	< 0.001
Hidropic Tubular Degen	16 (69.6)	7 (30.4)	8 (100)	0	8 (100)	0	0	7 (100)	< 0.001
Tubular Atrophy	8 (34.8)	15 (65.2)	8 (100)	0	0	8 (100)	0	7 (100)	< 0.001
Advanced Tubulointerstitial Lesions									
Hyaline Cylinders	19 (82.6)	4 (17.4)	8 (100)	0	8 (100)	0	3 (42.9)	4 (57.1)	0.004
Tubular Calcification	23 (100)	0	8 (100)	0	8 (100)	0	7 (100)	0	-
Vacuolar Tubular Degen	19 (82.6)	4 (17.4)	8 (100)	0	8 (100)	0	3 (42.9)	4 (57.1)	0.004
IFTA	16 (69.6)	7 (30.4)	8 (100)	0	8 (100)	0	0	7 (100)	< 0.001
Tubular Necrosis	23 (100)	0	8 (100)	0	8 (100)	0	7 (100)	0	-

Results expressed as n (%)

Pearson's chi-square test was used to compare observed and expected frequencies

P-value: Absence of lesion vs Presence of lesion

BS, Bowman's space; Degen., degeneration; GBM, glomerular basement membrane; IFTA, interstitial fibrosis and tubular atrophy; Inters. Inflamm. Infiltr., interstitial inflammatory filtration.

Supplementary Table S2. Total score of mild and advanced kidney lesions of rat groups under study, at the end of protocol

	Sham (n = 8)	CKD 1-2 (n = 8)	CKD 3-4 (n = 7)
Mild Glomerular Lesions			
Glomerular Hypertrophy	0	1.38 ± 0.18 <i>a</i>	2.43 ± 0.20 <i>a</i>
Crescent-like structures	1.00 ± 0.00	1.00 ± 0.19	1.86 ± 0.26 <i>ab</i>
Dilatation of Bowman's space	0	1.38 ± 0.18 <i>a</i>	2.29 ± 0.18 <i>a</i>
GBM Thickening	0	0.63 ± 0.18	1.71 ± 0.18 <i>a</i>
Total	0.25 ± 0.00	1.09 ± 0.16 <i>a</i>	2.07 ± 0.17 <i>a</i>
Advanced Glomerular Lesions			
Glomerular "Blebbing"	0	0.13 ± 0.13	0.86 ± 0.40 <i>a</i>
Glomerular Atrophy	0	0.50 ± 0.19	1.14 ± 0.14 <i>a</i>
Glomerulosclerosis	0	0	1.14 ± 0.14 <i>ab</i>
Total	0	0.21 ± 0.09	1.05 ± 0.17 <i>ab</i>
Mild Tubular Lesions			
Tubular dilatation	0	0.38 ± 0.18	2.00 ± 0.31 <i>ab</i>
Inters. Inflamm. Infiltr.	0.13 ± 0.13	0.25 ± 0.16	1.14 ± 0.14 <i>ab</i>
Hidropic Tubular Degen.	0	0	1.00 ± 0.00 <i>ab</i>
Tubular Atrophy	0	1.25 ± 0.16 <i>a</i>	2.29 ± 0.18 <i>a</i>
Total	0	0.47 ± 0.07	1.61 ± 0.11 <i>a</i>
Advanced Tubular Lesions			
Hyaline Cylinders	0	0	0.57 ± 0.20 <i>ab</i>
Tubular Calcification	0	0	0
Vacuolar Tubular Degen.	0	0	0.57 ± 0.20 <i>ab</i>
IFTA	0	0	1.43 ± 0.20 <i>ab</i>
Tubular Necrosis	0	0	0
Total	0	0	0.51 ± 0.06 <i>ab</i>

Results are presented as mean ± SEM.

The Kruskal-Wallis test was used to compare groups, followed by Bonferroni correction for multiple comparisons.