

Supplemental Table 1. Correlation analysis. Spearman's ρ (rho) rank correlation between CNP molecular forms and pertinent biomarkers of disease severity or prognosis in ADHF patients.

	<i>Urine CNP22</i>		<i>Urine CNP53</i>		<i>Urine NT-CNP53</i>	
	ρ	p-value	ρ	p-value	ρ	p-value
Age	0.04	0.74	0.08	0.57	0.06	0.65
eGFR	-0.11	0.41	0.08	0.53	0.27	0.04
Urine total protein/ creatinine ratio	0.68	0.0001	-0.42	0.06	0.04	0.85
<i>Urinary biomarkers</i>						
KIM-1	0.19	0.16	0.30	0.02	0.21	0.11
NGAL	0.43	0.0007	0.12	0.36	0.07	0.61
CNP22	1	-	0.66	<0.0001	0.50	<0.0001
CNP53	0.66	<0.0001	1	-	0.58	<0.0001
NT-CNP53	0.50	<0.0001	0.58	<0.0001	1	-
<i>Plasma biomarkers</i>						
CNP22	0.28	0.04	0.24	0.07	0.26	0.05
CNP53	0.12	0.39	-0.08	0.52	-0.12	0.38
NT-CNP53	-0.08	0.58	0.09	0.53	-0.14	0.31
NT-proBNP	0.45	0.0003	0.33	0.01	0.09	0.53

eGFR, estimated glomerular filtration rate; KIM-1, kidney injury molecule-1; NGAL, neutrophil

gelatinase-associated lipocalin; CNP22, C-type natriuretic peptide-22; CNP53, C-type natriuretic peptide-

53; NT-CNP53, N-terminal fragment of C-type natriuretic peptide -53; NT-proBNP, N-terminal pro-B

type natriuretic peptide.

Supplemental Table 2. Univariate predictive value of urine and plasma biomarkers for clinical outcome in ADHF patients. Cox proportional hazard analysis.

<i>Model</i>	<i>Outcome</i>			
	Death		All-cause rehospitalization / death	
	HR (95% CI)	p-value	HR (95%CI)	p-value
<i>Unadjusted urine biomarker*</i>				
CNP22	1.28 (0.80-1.91)	0.29	1.09 (0.78-1.46)	0.59
CNP53	1.18 (0.87-1.53)	0.27	1.05 (0.84-1.28)	0.65
NT-CNP53	1.67 (1.14-2.37)	0.01	1.78 (1.30-2.39)	0.0004
KIM-1	1.28 (0.72-2.40)	0.42	1.21 (0.80-1.91)	0.38
NGAL	1.11 (0.84-1.42)	0.45	1.07 (0.86-1.32)	0.54
<i>Unadjusted plasma biomarker*</i>				
CNP22	1.03 (1.00-1.06)	0.06	1.02 (0.99-1.05)	0.12
CNP53	0.92 (0.76-1.05)	0.28	1.01 (0.92-1.09)	0.74
NT-CNP53	1.06 (0.83-1.30)	0.60	0.96 (0.80-1.13)	0.64
NT-proBNP	1.28 (0.85-1.93)	0.24	1.24 (0.94-1.65)	0.13

*Ln transformed data (hazard ratio are per 1 log unit increase)

KIM-1, kidney injury molecule 1; NGAL, neutrophil gelatinase-associated lipocalin; CNP22, C-type natriuretic peptide-22; CNP53, C-type natriuretic peptide-53; NT-CNP53, N-terminal fragment of C-type natriuretic peptide -53; NT-proBNP, N-terminal pro-B type natriuretic peptide.