

**Table S1. Adjusted levels of procoagulant biomarkers by chronic kidney disease status.**

Variables	Healthy control	CKD3	CKD4	CKD5
Platelet ( $10^9/l$ )	239.3 $\pm$ 72.4	218.1 $\pm$ 60.5	211.4 $\pm$ 57.9	186.3 $\pm$ 71.9
ADP <sub>LTA</sub> (%)	68.2 $\pm$ 10.5	68.4 $\pm$ 10.1	69.3 $\pm$ 2.0	73.6 $\pm$ 12.2
Factor V (%)	108.3 $\pm$ 38.5	99.7 $\pm$ 35.0	108.0 $\pm$ 32.6	99.6 $\pm$ 40.3
Factor VII(%)	78.8 $\pm$ 25.2	99.4 $\pm$ 23.4	104.0 $\pm$ 20.9	97.7 $\pm$ 27.4
Factor VIII(%)	82.3 $\pm$ 31.6	118.2 $\pm$ 28.9	129.7 $\pm$ 27.1	141.1 $\pm$ 32.8
VWF:Ag(%)	92.9 $\pm$ 51.4	131.0 $\pm$ 51.1	155.8 $\pm$ 46.2	182.9 $\pm$ 56.4
vWF:RCo(%)	86.4 $\pm$ 44.1	120.9 $\pm$ 44.1	147.9 $\pm$ 40.0	170.0 $\pm$ 48.8
Fibrinogen(g/l)	3.7 $\pm$ 1.0	3.2 $\pm$ 0.9	3.7 $\pm$ 0.9	4.2 $\pm$ 1.0
Protein C(%)	98.2 $\pm$ 19.2	97.1 $\pm$ 16.6	92.5 $\pm$ 15.5	93.3 $\pm$ 19.6
Protein S(%)	83.7 $\pm$ 29.1	87.1 $\pm$ 25.8	93.4 $\pm$ 23.5	99.4 $\pm$ 30.0
AT III (%)	99.2 $\pm$ 12.9	104.7 $\pm$ 11.3	104.2 $\pm$ 10.4	99.2 $\pm$ 12.9
D-dimer,(ng/ml)	362 $\pm$ 404	464 $\pm$ 367	505 $\pm$ 345	780 $\pm$ 422
APTT(s)	40.5 $\pm$ 4.8	37.8 $\pm$ 3.9	37.5 $\pm$ 3.6	38.2 $\pm$ 4.8
PT(s)	137 $\pm$ 0.7	13.5 $\pm$ 0.5	13.5 $\pm$ 0.6	13.8 $\pm$ 0.7

**Table S2. Unadjusted and adjusted levels of procoagulant biomarkers in patients without comorbidities**

Variables	Unadjusted				P	Multivariable-adjusted*				
	Healthy control	CKD3 (n=23)	CKD4 (n=29)	CKD5 (n=21)		Healthy control	CKD3	CKD4	CKD5	P
Platelet ( $10^9/l$ )	231.8±42.7	211.4±65.5	210.6±48.3	195.9±55.4	0.119	231.8±71.8	213.8±58.5	208.6±56.5	196.1±72.9	0.775
ADP <sub>LTA</sub> (%)	64.3±5.2	64.9±6.4	71.5±8.1	74.8±8.5	0.009	64.4±10.2	65.5±9.1	70.7±8.2	75.6±11.7	0.255
Factor V (%)	108.7±25.4	98.1±35.0	101.6±35.3	99.4±34.7	0.533	101.5±45.6	98.4±41.2	104.1±33.4	98.0±58.1	0.893
Factor VII(%)	77.3±18.9 <sup>♦</sup>	97.9±16.9 <sup>♦</sup>	103.1±16.6*	108.6±29.1*	0.002	82.7±25.8 <sup>♦</sup>	102.6±22.9*	103.0±21.1 <sup>♦</sup>	98.3±28.8*	0.139
Factor VIII(%)	88.5±23.8 <sup>♦</sup>	114.7±26.6 <sup>♦</sup>	126.7±27.4*	136.2±33.5*	<0.001	82.4±33.3 <sup>♦</sup>	117.3±29.5 <sup>♦</sup>	126.8±27.4*	137.4±34.4*	0.006
VWF:Ag(%)	105.1±45.4 <sup>♦</sup>	124.1±55.8 <sup>♦</sup>	157.3±49.3*	177.0±47.8*	0.002	94.6±54.3 <sup>♦</sup>	127.9±52.7 <sup>♦</sup>	155.6±47.4*	180.6±58.4*	0.037
vWF:RCo(%)	100.0±32.3 <sup>♦</sup>	114.7±46.4 <sup>♦</sup>	148.1±45.4*	167.5±44.7*	0.001	87.6±47.4 <sup>♦</sup>	118.8±45.8 <sup>♦</sup>	147.7±41.4*	170.0±51.2*	0.016
Fibrinogen(g/l)	3.0±0.8 <sup>♦</sup>	3.0±0.7 <sup>♦</sup>	3.6±0.6 <sup>♦</sup>	4.3±1.1*	<0.001	3.5±1.1 <sup>♦</sup>	3.2±0.9 <sup>♦</sup>	3.5±1.0 <sup>♦</sup>	4.1±0.9*	0.032

Protein C(%)	106.3±17.9 <sup>◆</sup>	98.5±20.3 <sup>◆</sup>	90.4±16.5	86.5±14.9*	0.029	93.4±20.6	96.2±18.3	89.9±16.5	93.7±21.6	0.629
Protein S(%)	76.9±24.8	86.7±25.3	92.8±18.0	97.3±25.4	0.171	81.2±29.3	86.1±25.0	91.2±23.5	98.6±30.0	0.651
AT III (%)	100.9±8.9	103.6±10.9	106.1±10.4	103.7±12.2	0.539	97.8±12.0	104.2±10.0	105.9±9.6	102.2±12.5	0.178
D-dimer,(ng/ml)	268±124 <sup>◆</sup>	419±297 <sup>◆</sup>	420±186* <sup>◆</sup>	865±531*	<0.001	373±300 <sup>◆</sup>	464±335	419±323	799±40*	0.008
APTT(s)	38.9±4.8	37.9±3.4	37.9±3.9	39.4±3.3	0.506	41.2±4.7	38.2±3.8	37.6±3.8	38.1±4.5	0.138
PT(s)	13.5±0.6	13.6±0.6	13.5±0.6	13.7±0.5	0.655	13.6±0.7	13.5±0.6	13.5±0.6	13.6±0.7	0.920

Data are adjusted for age, sex, MAP, BMI, hemoglobin, serum albumin, cholesterol, triglyceride, and UACR.

AT III=antithrombin III; APTT=activated partial thromboplastin time; PT=prothrombin time; LTA=Light transmittance aggregometry.

\*p<0.05, vs control group; <sup>◆</sup>p<0.05, vs CKD 5 group.

