Supplemental Table 1. Multivariable Cox proportional hazards models for the relationship

	Hazard Ratio (95% CI)	p-value
Non-dipping status (vs. Dipping)	1.08 (0.77, 1.51)	0.65
24-hour mean systolic BP (per 10	0.95 (0.72, 1.24)	0.69
mmHg)		
Age (per year)	1.11 (1.06, 1.17)	<0.001
Female	0.65 (0.45, 0.93)	0.02
Black	2.19 (1.36, 3.51)	0.001
Glomerular Disease	1.73 (1.14, 2.62)	0.01
BMI z-score	0.99 (0.86, 1.14)	0.92
ACE inhibitor use	1.05 (0.73, 1.52)	0.78
Baseline Iohexol GFR	0.93 (0.92, 0.94)	<0.001
(per ml/min/1.73 m ²)		
Baseline UPCR (per mg/mg)	1.29 (1.18, 1.41)	<0.001
24 hour mean systolic BP * Time	1.01 (1.0, 1.02)	0.01

between non-dipping and progression to kidney failure in the overall CKiD cohort.

Abbreviations: ESKD, end-stage kidney disease; CI, confidence interval; BP, blood pressure; BMI, body mass index; ACE, angiotensin converting enzyme; GFR, glomerular filtration rate; UPCR, urine protein/creatinine ratio (mg/mg).

Supplemental Table 2. Multivariable Cox proportional hazards models for the relationship

between systolic and diastolic dipping (%) and progression to kidney failure.

	Hazard Ratio (95% CI)	p-value
Systolic Dipping (%)	1.01 (0.98, 1.04)	0.63
24-hour mean systolic BP (per 10	0.95 (0.72, 1.26)	0.72
mmHg)		
Age (per year)	1.11 (1.06, 1.17)	<0.001
Female	0.66 (0.46, 0.96)	0.03
Black	2.25 (1.39, 3.62)	<0.001
Glomerular Disease	1.74 (1.15, 2.63)	0.01
BMI z-score	0.99 (0.86, 1.14)	0.87
ACE inhibitor use	1.03 (0.72, 1.49)	0.86
Baseline Iohexol GFR	0.93 (0.92, 0.94)	<0.001
(per ml/min/1.73 m ²)		
Baseline UPCR (per mg/mg)	1.29 (1.18, 1.41)	<0.001
24 hour mean systolic BP * Time	1.01 (1.0, 1.02)	0.01
Diastolic Dipping (%)	1.00 (0.98, 1.02)	0.93
24-hour mean systolic BP (per 10	0.94 (0.72, 1.24)	0.69
mmHg)		
Age (per year)	1.11 (1.06, 1.17)	<0.001

	1	1
Female	0.65 (0.45, 0.94)	0.02
Black	2.20 (1.37, 3.54)	0.001
Glomerular Disease	1.74 (1.15, 2.64)	0.01
BMI z-score	0.99 (0.86, 1.14)	0.92
ACE inhibitor use	1.04 (0.73, 1.50)	0.82
Baseline Iohexol GFR	0.93 (0.92, 0.94)	<0.001
(per ml/min/1.73 m ²)		
Baseline UPCR (per mg/mg)	1.29 (1.18, 1.41)	<0.001
24 hour mean systolic BP * Time	1.01 (1.0, 1.02)	0.01

Abbreviations: ESKD, end-stage kidney disease; CI, confidence interval; BP, blood pressure; BMI, body mass index; ACE, angiotensin converting enzyme; GFR, glomerular filtration rate; UPCR, urine protein/creatinine ratio (mg/mg).

Supplemental Table 3. Multivariable Cox proportional hazards models for the relationship between serial dipping status and progression to kidney failure in the overall CKiD cohort (N=198).

	Hazard Ratio (95% CI)	p-value
Non-dipper twice vs. never non-	1.15 (0.52, 2.50)	0.73
dipper		
Non-dipper once vs. never non-	1.30 (0.55, 3.06)	0.56
dipper		
24-hour mean systolic BP (per 10	1.48 (1.02, 2.14)	0.04
mmHg)		
Age (per year)	1.12 (1.01, 1.24)	0.03
Female	0.64 (0.32, 1.27)	0.20
Black	3.08 (1.08, 8.84)	0.04
Glomerular Disease	1.75 (0.71, 4.33)	0.23
BMI z-score	1.11 (0.83, 1.48)	0.50
ACE inhibitor use	1.00 (0.51, 1.95)	0.99
Baseline Iohexol GFR	0.94 (0.91, 0.96)	<0.001
(per ml/min/1.73 m ²)		
Baseline UPCR (per mg/mg)	2.79 (1.62, 4.81)	<0.001

Abbreviations: ESKD, end-stage kidney disease; CI, confidence interval; BP, blood pressure; BMI, body mass index; ACE, angiotensin converting enzyme; GFR, glomerular filtration rate; UPCR, urine protein/creatinine ratio (mg/mg).

STROBE Statement—	-Checklist of items	that should be	included in reports	of <i>cohort studies</i>
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	Item		Page No
	No	Recommendation	1
Title and abstract	1	(<i>a</i>) Indicate the study's design with a commonly used term in the title or the abstract	1
		(b) Provide in the abstract an informative and balanced summary of what	3
		was done and what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	4
Objectives	3	State specific objectives, including any prespecified hypotheses	4
Methods			
Study design	4	Present key elements of study design early in the paper	4-5
Setting	5	Describe the setting, locations, and relevant dates, including periods of	5
U		recruitment, exposure, follow-up, and data collection	
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of	5
-		participants. Describe methods of follow-up	
		(b) For matched studies, give matching criteria and number of exposed and	NA
		unexposed	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders,	5-6
		and effect modifiers. Give diagnostic criteria, if applicable	
Data sources/	8*	For each variable of interest, give sources of data and details of methods of	5-6
measurement		assessment (measurement). Describe comparability of assessment methods	
		if there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	
Study size	10	Explain how the study size was arrived at	4 (ancillary study, post hoc)
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If	6
		applicable, describe which groupings were chosen and why	
Statistical methods	12	(<i>a</i>) Describe all statistical methods, including those used to control for confounding	6-8
		(b) Describe any methods used to examine subgroups and interactions	7
		(<i>c</i>) Explain how missing data were addressed	Each analysis excludes those with missing covariates and as such, each table has (N=***) to reflect. 6
		(a) In apprecision, explain new loss to renew up was addressed (a) Describe any sensitivity analyses	NA
		(e) Describe any sensitivity analyses	

Results

				-	
Participants 13*		13*	(a) Report numbers of individuals at each stage of study—eg numbers	5	
			potentially eligible, examined for eligibility, confirmed eligible, included in		
			the study, completing follow-up, and analysed		
			(b) Give reasons for non-participation at each stage	NA	
			(c) Consider use of a flow diagram		
Descriptive data		14*	(a) Give characteristics of study participants (eg demographic, clinical,	14-	15
			social) and information on exposures and potential confounders		
			(b) Indicate number of participants with missing data for each variable of	8	
			interest		
			(c) Summarise follow-up time (eg, average and total amount)	8	
Outcome data		15*	Report numbers of outcome events or summary measures over time	8	
Main regults	16	(a) Cive	unadjusted actimates and if applicable, confounder adjusted estimates and their		8-9
Main results	Main results 16 (a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and them			0 /	
	precision (eg, 95% confidence interval). Make clear which confounders were adjusted for		Ľ		
		and why			
		(b) Repoi	t category boundaries when continuous variables were categorized		
		(c) If rele	vant, consider translating estimates of relative risk into absolute risk for a		
		meaningf	ul time period		8.0
Other analyses	17	7 Report other analyses done—eg analyses of subgroups and interactions, and sensitivity		8-9	
		analyses			
Discussion					
Key results	18	Summari	se key results with reference to study objectives		9-10
Limitations	19 Discuss limitations of the study, taking into account sources of potential bias or imprecision.		ion.	11-	
		Discuss b	both direction and magnitude of any potential bias		12
Interpretation	20	0 Give a cautious overall interpretation of results considering objectives, limitations,		12	
		multiplic	ity of analyses, results from similar studies, and other relevant evidence		
Generalisability	21	Discuss t	he generalisability (external validity) of the study results		12
Other information					
Funding	22	2 Give the source of funding and the role of the funders for the present study and, if		12	
		applicabl	e, for the original study on which the present article is based		

*Give information separately for exposed and unexposed groups.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at http://www.strobe-statement.org.