

Supplementary Table 1: Associations of Ejection Fraction Quartiles With Incident Heart Failure and Death in CRIC Participants Without Baseline Heart Failure

	N (events)	N (participants)	Rate	Model 1	Model 2	Model 3
Ejection fraction(%)				HR(95%CI)	HR(95%CI)	HR(95%CI)
Heart Failure						
Q1 (>=59.2)	36	720	9.0	ref	ref	ref
Q2 (55.5, <59.2)	64	720	16.9	1.81(1.18-2.76)	1.89(1.23-2.92)	2.17(1.38-3.42)
Q3 (51.9, <55.5)	56	720	14.5	1.58(1.02-2.43)	1.65(1.06-2.57)	1.81(1.14-2.88)
Q4 (<51.9)	92	719	25.9	2.65(1.75-3.99)	2.85(1.88-4.34)	3.01(1.94-4.67)
Linear trend p-value				<0.001	<0.001	<0.001
Death						
Q1 (>=59.2)	99	720	21.6	ref	ref	ref
Q2 (55.5, <59.2)	111	720	24.3	1.07(0.8-1.42)	1.08(0.81-1.44)	1.06(0.79-1.42)
Q3 (51.9, <55.5)	100	720	21.7	0.91(0.68-1.21)	0.92(0.68-1.23)	0.92(0.68-1.23)
Q4 (<51.9)	137	719	30.6	1.23(0.93-1.63)	1.27(0.96-1.68)	1.18(0.89-1.57)
Linear trend p-value				0.004	0.005	0.04

Model 1: age, race, study site, diabetes, cardiovascular disease, tobacco, alcohol use, log(24hr proteinuria), eGFR (CRIC equation), systolic blood pressure, diastolic blood pressure, body mass index, LDL, HDL, aldosterone antagonists, angiotensin converting enzyme inhibitors, angiotensin receptor blockers, diuretics, beta blockers, phosphate, hemoglobin

Model 2: 1 + log(parathyroid hormone), log(fibroblast growth factor-23), aspirin, statin

Model 3: 2 + log(BNP), log(high sensitivity troponin T)

Supplementary Table 2: Associations of Diastolic Function Categories With Incident Heart Failure and Death in CRIC Participants Without Baseline Heart Failure

Diastolic category	N (events)	N (participants)	Rate	Unadjusted	Model 1	Model 2	Model 3
					HR(95%CI)	HR(95%CI)	HR(95%CI)
Heart Failure							
Normal	56	771	13.5	ref	ref	ref	ref
Mildly abnormal	163	1663	19.0	1.41(1.04-1.9)	1.03(0.73-1.44)	1.05(0.75-1.48)	1.26(0.89-1.79)
Moderately abnormal	16	229	12.4	0.92(0.53-1.61)	0.75(0.42-1.32)	0.8(0.45-1.41)	0.85(0.47-1.53)
Severely abnormal	4	35	24.5	1.8(0.65-4.97)	1.52(0.53-4.32)	1.59(0.56-4.54)	1.58(0.55-4.56)
Death							
Normal	98	771	20.0	ref	ref	ref	ref
Mildly abnormal	303	1663	29.2	1.46(1.17-1.84)	0.98(0.76-1.26)	1.02(0.79-1.32)	1.06(0.82-1.38)
Moderately abnormal	26	229	16.7	0.8(0.52-1.23)	0.65(0.42-1.02)	0.69(0.44-1.09)	0.65(0.41-1.04)
Severely abnormal	7	35	34.2	1.71(0.8-3.69)	1.99(0.91-4.36)	2.05(0.93-4.5)	2.29(1.04-5.04)

Model 1: age, race, study site, diabetes, cardiovascular disease, tobacco, alcohol use, log(24hr proteinuria), eGFR (CRIC equation), systolic blood pressure, diastolic blood pressure, body mass index, LDL, HDL, aldosterone antagonists, angiotensin converting enzyme inhibitors, angiotensin receptor blockers, diuretics, beta blockers, phosphate, hemoglobin
 Model 2: 1 + log(parathyroid hormone), log(fibroblast growth factor-23), aspirin, statin
 Model 3: 2 + log(BNP), log(high sensitivity troponin T)