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Supplemental Table 1. Definitions for pre-existing cardiovascular comorbid conditions.

**Cerebrovascular disease;** patients with a history of cerebrovascular accident with minor or no residual symptoms and transient ischemic attacks.

**Peripheral arterial disease;** intermittent claudication or bypass for arterial insufficiency, those with gangrene or acute arterial insufficiency, and those with untreated thoracic or abdominal aneurysm (6 cm or more).

**Myocardial infarction;** ST and non-ST elevation myocardial infarction, includes patients with one or more definite or probable myocardial infarctions, these patients had ECG and/or enzyme changes. Patients with ECG changes alone were not designated as having had a myocardial infarction.

**Angina pectoris;** chronic exertional angina, or coronary artery bypass graft, and those admitted with unstable angina.

**Congestive heart failure;** exertional or paroxysmal nocturnal dyspnea, or responded symptomatically to digitalis, diuretics, or afterload reducing agents. It does not include patients on medication but have had no symptomatic response, and no evidence of improvement of physical signs.

**Left ventricular hypertrophy;** confirmed by echo or ECG.

**Hypertension;** sustained blood pressure of >140/90 or using antihypertensives.

**Cardiac arrhythmias;** includes arrhythmias, patient with chronic atrial fibrillation or flutter, sick sinus syndrome, or ventricular arrhythmias requiring chronic treatment.

**Diabetes;** includes patient with retinopathy, neuropathy, or nephropathy, patients who had previous hospitalizations for ketoacidosis, hyperosmolar coma, or control, and those with juvenile onset, or brittle diabetes, or patients treated with insulin or oral hypoglycemic, but not diet alone.

Supplemental Table 2. Confounders in the relationship between the determinant of interest and HRQOL, based on literature and expert opinion.

Determinant -->	eGFR	Hb	PO4	Systolic BP	Cholesterol	Diabetes	PVD	MI
<b>Demographics</b>								
Age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Education level	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Marital status	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
More than one child	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Primary kidney disease	Yes	No	No	Yes	Yes		Yes	Yes
Weight	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Height	Yes	No	No	Yes	Yes	Yes	Yes	Yes
BMI	Yes	No	No	Yes	Yes	Yes	Yes	Yes
<b>Medication</b>								
Hyperpolypharmacy	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Antidepressant prescription	Yes	No	No	Yes	No	Yes	No	No
<b>Cardiovascular</b>								
Systolic blood pressure	Yes	No	No	NA	No	No	Yes	Yes
Diastolic blood pressure	Yes	No	No	Yes	No	No	Yes	Yes
Hb	No	NA	No	Yes	No	No	No	Yes
Smoking status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Blood chemistry</b>								
Albumin	No	No	No	No	Yes	No	No	No
Calcium	Yes	No	No	Yes	No	No	Yes	Yes
Cholesterol	Yes	No	No	Yes	NA	No	Yes	Yes
PO4	Yes	No	NA	Yes	No	No	Yes	Yes
Potassium	Yes	No	No	Yes	No	No	No	Yes
<b>Renal function</b>								
CKDEPI	NA	Yes	Yes	Yes	No	No	Yes	Yes
UACR	Yes	Yes	Yes	Yes	No	No	Yes	Yes
<b>Comorbidities</b>								
Diabetes	Yes	No	No	Yes	Yes	NA	Yes	Yes
Chronic heart failure	Yes	No	No	Yes	No	No	Yes	Yes
Cerebrovascular disease	Yes	No	No	Yes	No	No	Yes	Yes
Peripheral vascular disease	Yes	No	No	Yes	No	No	NA	Yes
Myocardial infarction	Yes	No	No	Yes	No	No	Yes	NA
Angina pectoris	Yes	No	No	Yes	No	No	Yes	Yes
Left ventricular hypertrophy	Yes	No	No	Yes	No	No	Yes	Yes
Atrial fibrillation	Yes	No	No	Yes	No	No	Yes	Yes
Hypertension	Yes	No	No	No	No	No	Yes	Yes

Supplemental Table 3. Proportion of missing values.

	Missing (%)
<b>Demographics</b>	
Age	0
Education level	2.7
Marital status	3
More than one child	0
Primary kidney disease	1.3
Weight	3.7
Height	6.4
BMI	6.9
<b>Medication</b>	
Hyperpolypharmacy	0
Antidepressant prescription	0
<b>Cardiovascular</b>	
Systolic blood pressure	2.3
Diastolic blood pressure	2.3
Hb	2.4
Smoking status	2.8
<b>Blood chemistry</b>	
Albumin	10.5
Calcium	6.8
Cholesterol	24.1
PO4	6.6
Potassium	1.8
<b>Renal function</b>	
CKDEPI	1.4
UACR	53.1
<b>Comorbidities</b>	
Diabetes	2.5
Chronic heart failure	5.1
Cerebrovascular disease	3
Peripheral vascular disease	4
Myocardial infarction	2.5
Angina pectoris	4
Left ventricular hypertrophy	13.1
Atrial fibrillation	3.7
Hypertension	4.7
<b>SF36</b>	
Mental health score	9.8
Physical health score	16.3
Physical functioning	1.7
Physical role functioning	4.6
Emotional role functioning	5.8
Bodily pain	12.4
Social role functioning	2.7
Mental health	4.1
Vitality	3
General health perceptions	2.5

Supplemental Table 4. A complete case analysis of the annual decline in HRQOL in men and women.

Physical Component Summary					
<i>Men</i>	<i>p-value</i>	<i>Women</i>	<i>p-value</i>	<i>Difference</i>	<i>p-value</i>
-3.1 (-3.7 - -2.4)	<.001	-1.7 (-2.6--0.7)	<.001	1.4 (0.3 - 2.6)	0.02

Mental Component Summary					
<i>Men</i>	<i>p-value</i>	<i>Women</i>	<i>p-value</i>	<i>Difference</i>	<i>p-value</i>
-2.9 (-3.6 - -2.3)	<.001	-1.8 (-2.7 - -0.9)	<.001	1.1 (0.0 - 2.2)	0.05

Supplemental Table 5. Participant characteristics at baseline for excluded and included participants.

	Excluded (n=320)	Included (n=1421)	P-value
<b>Demographics</b>			
Age	77 (6)	76 (6)	0.45
Sex (% women)	121 (37)	486 (34)	0.24
Education level (%)			
Low education	97 (30)	445 (31)	0.86
Intermediate education	177 (55.3)	763 (54)	
High education	46 (14)	214 (15)	
Marital status (%)			
Married	206 (64)	915 (64)	0.64
Divorced	26 (8)	105 (7)	
Widowed	71 (22)	345 (24)	
Never married	17 (5)	57 (4)	
More than one child (%)	286 (89)	1260 (88)	0.77
Primary kidney disease (%)			
Glomerular disease	17 (5)	142 (10)	0.01
Tubulo-interstitial disease	20 (6)	127 (9)	
Diabetes	67 (20)	290 (20)	
Hypertension	113 (35)	515 (36)	
Miscellaneous renal disorders	103 (32)	348 (25)	
Weight (kg)	79 (18)	80 (17)	0.53
Height (cm)	166 (10)	168 (10)	0.003
BMI (kg/m <sup>2</sup> )	29 (5)	28 (5)	0.54
<b>Medication</b>			
Hyperpolypharmacy (%)	110 (34)	333 (23)	<0.001
Antidepressant prescription (%)	27 (8)	97 (7)	0.37
<b>Cardiovascular</b>			
Systolic blood pressure (mmHg)	142 (23)	143 (22)	0.51
Diastolic blood pressure	73.03 (12)	73.99 (11)	0.17
Hb (g/dL)	7.3 (1.0)	7.2 (0.9)	0.20
Smoking status (%)			0.53
Current smoker	32 (10)	125 (9)	
Ex-smoker	162 (51)	767 (53)	
Never	126 (39)	530 (37)	
<b>Blood chemistry</b>			
Albumin (g/dL)	3.8 (6.2)	3.8 (5.7)	0.69
Calcium (mmol/L)	9.2 (0.8)	9.2 (0.8)	0.06
Cholesterol (mmol/L)	174 (50)	174 (50)	0.28
PO <sub>4</sub> (mmol/L)	4.0 (0.9)	4.0 (0.9)	0.26
Potassium (mEq/L)	4.7 (0.7)	4.6 (0.6)	0.03
<b>Renal function</b>			
CKDEPI (ml/min/1.73m <sup>2</sup> )	18 (6)	17 (5)	0.18
UACR	24 [3, 141]	31 [5, 131]	0.53
<b>Comorbidities</b>			
Diabetes (%)	147 (45)	589 (41)	0.16
Chronic heart failure (%)	52 (16)	263 (19)	0.39
Cerebrovascular disease (%)	55 (17)	213 (15)	0.37
Peripheral vascular disease (%)	56 (18)	240 (17)	0.85
Myocardial infarction (%)	48 (15)	249 (18)	0.32
Angina pectoris (%)	41 (13)	217 (15)	0.31
Left ventricular hypertrophy (%)	69 (22)	342 (24)	0.38
Atrial fibrillation (%)	70 (22)	255 (18)	0.12
Hypertension (%)	282 (88)	1267 (89)	0.69

Supplemental Table 6. Annual decline for SF36 domain scores in men and women.

Domain	Men	P-value	Women	P-value	Difference	P-value
<i>Mental summary score</i>						
Mental health	-1.8 (-2.3 - -1.2)	<.001	-0.9 (-1.7 - -0.2)	0.01	0.8 (-0.1 - 1.8)	0.08
Role functioning emotional	-3.7 (-5.1 - -2.3)	<.001	-1.4 (-3.3 - 0.5)	0.15	2.3 (-0.1 - 4.6)	0.06
Social functioning	-3.3 (-4.1 - -2.4)	<.001	-3.0 (-4.2 - -1.8)	<.001	0.3 (-1.2 - 1.7)	0.72
Vitality	-2.0 (-2.6 - -1.3)	<.001	-1.8 (-2.7 - -0.9)	<.001	0.2 (-0.9 - 1.3)	0.70
<i>Physical summary score</i>						
Physical functioning	-3.2 (-4.0 - -2.3)	<.001	-2.1 (-3.2 - -1.0)	<.001	1.1 (-0.4 - 2.5)	0.14
Bodily pain	-2.6 (-3.5 - -1.8)	<.001	-0.4 (-1.5 - 0.8)	0.52	2.3 (0.8 - 3.7)	<.001
Role functioning physical	-3.8 (-5.3 - -2.3)	<.001	-1.3 (-3.4 - 0.7)	0.21	2.4 (-0.1 - 5.0)	0.06
General health	-0.6 (-1.2 - 0.1)	0.07	-1.0 (-1.9 - -0.1)	0.03	-0.4 (-1.5 - 0.7)	0.46

Supplemental Table 7. Annual decline in QoL in men and women adjusted for informative censoring due to dropout caused by death or dialysis.

	<b>Men</b>	<b>Women</b>
PCS: Unadjusted linear mixed model	-2.5 (-3.1 - -1.8)	-1.1 (-2.0 - -0.1)
PCS: Joint model adjusting for dropout due to death & dialysis	-2.6 (-9.2 - 3.9)	-0.9 (-8.4 - 6.6)
MCS: Unadjusted linear mixed model	-2.7 (-3.4 - -2.0)	-1.6 (-2.6 - -0.7)
MCS: Joint model adjusting for dropout due to death & dialysis	-3.6 (-10.7 - 3.1)	-1.7 (-11.2 - 8.1)



Supplemental Table 8. Annual decline in HRQOL in men and women and subsequent adjustment for (groups of) covariates. The adjusted estimates for (the difference between) the sex-specific slopes for HRQOL can be compared with the estimates from the unadjusted model. The difference between the two estimates then represents the proportion of the effect of sex on HRQOL slope that is explained through the covariates.

	Physical Component Summary				Mental Component Summary			
	Women	Men	Difference	p-value	Women	Men	Difference	p-value
<b>Unadjusted model</b>	<b>-1.1 (-2.0 - -0.1)</b>	<b>-2.5 (-3.1 - -1.8)</b>	<b>1.4 ( 0.3 - 2.5)</b>	<b>0.01</b>	<b>-1.6 (-2.6 - -0.7)</b>	<b>-2.7 (-3.4 - -2.0)</b>	<b>1.1 (-0.1 - 2.2)</b>	<b>0.07</b>
<b>Demographics</b>								
Age	-1.1 (-2.0 - -0.2)	-2.5 (-3.1 - -1.8)	1.4 ( 0.3 - 2.5)	0.01	-1.6 (-2.6 - -0.7)	-2.7 (-3.4 - -2.1)	1.1 (-0.1 - 2.2)	0.06
Education level	-1.1 (-2.1 - -0.2)	-2.5 (-3.2 - -1.8)	1.4 ( 0.2 - 2.5)	0.02	-1.4 (-2.4 - -0.4)	-2.5 (-3.3 - -1.8)	1.1 (-0.1 - 2.3)	0.06
Marital status	-0.5 (-1.6 - 0.6)	-1.9 (-2.9 - -0.8)	1.4 ( 0.2 - 2.6)	0.02	-1.1 (-2.2 - 0.0)	-2.0 (-3.1 - -1.0)	1.0 (-0.3 - 2.2)	0.12
One or more children	-1.3 (-2.4 - -0.1)	-2.7 (-3.6 - -1.8)	1.4 ( 0.3 - 2.5)	0.01	-1.8 (-3.0 - -0.7)	-2.9 (-3.8 - -2.0)	1.1 (-0.1 - 2.2)	0.07
Primary kidney disease	-1.0 (-1.9 - 0.0)	-2.3 (-3.0 - -1.6)	1.3 ( 0.2 - 2.5)	0.02	-1.4 (-2.4 - -0.5)	-2.4 (-3.2 - -1.7)	1.0 (-0.1 - 2.2)	0.09
Country	-1.1 (-2.0 - -0.2)	-2.5 (-3.2 - -1.8)	1.4 ( 0.3 - 2.6)	0.01	-1.7 (-2.6 - -0.8)	-2.8 (-3.4 - -2.1)	1.1 (-0.1 - 2.2)	0.07
<i>All demographics</i>	-1.0 (-2.2 - 0.3)	-2.2 (-3.3 - -1.0)	1.2 ( 0.0 - 2.4)	0.06	-1.1 (-2.4 - 0.2)	-2.0 (-3.1 - -0.8)	0.8 (-0.4 - 2.1)	0.19
<b>Medication</b>								
Hyperpolypharmacy	-0.8 (-1.8 - 0.2)	-2.2 (-3.0 - -1.4)	1.4 ( 0.3 - 2.5)	0.02	-1.6 (-2.6 - -0.6)	-2.7 (-3.5 - -1.9)	1.1 (-0.1 - 2.2)	0.07
Antidepressant prescription	-0.6 (-1.9 - 0.7)	-2.0 (-3.2 - -0.7)	1.4 ( 0.2 - 2.5)	0.02	-1.0 (-2.3 - 0.4)	-1.9 (-3.3 - -0.6)	1.0 (-0.2 - 2.1)	0.10
<i>All medication</i>	-0.5 (-1.8 - 0.8)	-1.9 (-3.1 - -0.6)	1.4 ( 0.2 - 2.5)	0.02	-0.9 (-2.3 - 0.4)	-1.9 (-3.2 - -0.6)	1.0 (-0.2 - 2.1)	0.10
<b>Cardiovascular</b>								
Systolic blood pressure	-1.4 (-2.3 - -0.4)	-2.7 (-3.4 - -2.0)	1.4 ( 0.2 - 2.5)	0.02	-1.8 (-2.8 - -0.8)	-2.8 (-3.5 - -2.1)	1.0 (-0.1 - 2.2)	0.08
Diastolic blood pressure	-1.2 (-2.2 - -0.2)	-2.6 (-3.3 - -1.9)	1.4 ( 0.3 - 2.5)	0.02	-1.5 (-2.5 - -0.5)	-2.6 (-3.3 - -1.8)	1.1 (-0.1 - 2.2)	0.07
Hb	-1.1 (-2.0 - -0.2)	-2.3 (-3.0 - -1.7)	1.3 ( 0.2 - 2.4)	0.03	-1.7 (-2.6 - -0.8)	-2.5 (-3.2 - -1.9)	0.8 (-0.3 - 2.0)	0.14
Smoking status	-1.2 (-2.3 - -0.1)	-3.0 (-3.9 - -2.1)	1.8 ( 0.6 - 3.0)	0.00	-1.4 (-2.5 - -0.3)	-2.8 (-3.8 - -1.9)	1.4 ( 0.2 - 2.6)	0.02
BMI	-1.1 (-2.0 - -0.1)	-2.5 (-3.1 - -1.8)	1.4 ( 0.3 - 2.6)	0.01	-1.7 (-2.6 - -0.7)	-2.7 (-3.4 - -2.0)	1.0 (-0.1 - 2.2)	0.08
<i>All cardiovascular</i>	-1.5 (-2.7 - -0.4)	-3.1 (-4.0 - -2.1)	1.5 ( 0.3 - 2.7)	0.01	-1.4 (-2.6 - -0.2)	-2.4 (-3.4 - -1.4)	1.0 (-0.2 - 2.2)	0.09
<b>Blood chemistry</b>								
Albumin	-1.0 (-1.9 - -0.1)	-2.4 (-3.0 - -1.7)	1.4 ( 0.2 - 2.5)	0.02	-1.6 (-2.5 - -0.7)	-2.6 (-3.3 - -2.0)	1.0 (-0.1 - 2.2)	0.08
Calcium	-1.1 (-2.0 - -0.2)	-2.5 (-3.1 - -1.8)	1.4 ( 0.3 - 2.5)	0.02	-1.5 (-2.4 - -0.6)	-2.7 (-3.4 - -2.0)	1.2 ( 0.1 - 2.4)	0.04
Cholesterol*	-1.2 (-2.2 - -0.3)	-2.7 (-3.4 - -2.0)	1.5 ( 0.4 - 2.6)	0.01	-2.0 (-2.9 - -1.0)	-2.9 (-3.7 - -2.2)	1.0 (-0.2 - 2.1)	0.11
PO4	-1.1 (-1.9 - -0.2)	-2.4 (-3.1 - -1.7)	1.4 ( 0.2 - 2.5)	0.02	-1.6 (-2.5 - -0.7)	-2.5 (-3.2 - -1.9)	1.0 (-0.2 - 2.1)	0.10
Potassium	-1.1 (-2.0 - -0.2)	-2.4 (-3.1 - -1.8)	1.3 ( 0.2 - 2.5)	0.02	-1.7 (-2.6 - -0.8)	-2.7 (-3.4 - -2.0)	1.0 (-0.1 - 2.2)	0.08
<i>All blood chemistry</i>	-1.3 (-2.2 - -0.3)	-2.6 (-3.3 - -1.8)	1.3 ( 0.2 - 2.4)	0.02	-1.8 (-2.8 - -0.8)	-2.7 (-3.5 - -2.0)	0.9 (-0.3 - 2.1)	0.13

<b>Renal function</b>									
CKDEPI*	-0.8 (-1.7 - 0.1)	-1.8 (-2.5 - -1.0)	0.9 (-0.2 - 2.0)	0.09	-1.2 (-2.2 - -0.3)	-1.9 (-2.7 - -1.1)	0.7 (-0.5 - 1.8)	0.25	
UACR	-1.4 (-2.3 - -0.4)	-2.7 (-3.4 - -2.0)	1.3 (0.2 - 2.5)	0.02	-2.2 (-3.2 - -1.2)	-3.1 (-3.9 - -2.4)	1.0 (-0.2 - 2.1)	0.10	
<i>All renal function</i>	-1.1 (-2.1 - -0.1)	-2.0 (-2.8 - -1.2)	0.9 (-0.2 - 2.0)	0.11	-1.7 (-2.7 - -0.6)	-2.3 (-3.1 - -1.5)	0.6 (-0.5 - 1.8)	0.30	
<b>Comorbidities</b>									
Diabetes	-0.9 (-1.8 - 0.0)	-2.2 (-2.9 - -1.6)	1.3 (0.2 - 2.4)	0.02	-1.6 (-2.5 - -0.7)	-2.7 (-3.4 - -2.0)	1.1 (-0.1 - 2.2)	0.06	
Chronic heart failure	-0.7 (-1.7 - 0.3)	-2.1 (-2.9 - -1.3)	1.4 (0.3 - 2.6)	0.01	-1.7 (-2.8 - -0.7)	-2.8 (-3.6 - -2.0)	1.1 (-0.1 - 2.2)	0.06	
Cerebrovascular disease	-1.2 (-2.3 - -0.2)	-2.6 (-3.5 - -1.8)	1.4 (0.3 - 2.5)	0.01	-1.8 (-2.9 - -0.7)	-2.9 (-3.8 - -2.0)	1.1 (-0.1 - 2.2)	0.07	
Peripheral vascular disease	-0.4 (-1.5 - 0.7)	-1.9 (-2.7 - -1.1)	1.5 (0.4 - 2.6)	0.01	-1.4 (-2.5 - -0.3)	-2.5 (-3.3 - -1.6)	1.1 (0.0 - 2.3)	0.06	
Myocardial infarction	-1.1 (-2.2 - -0.1)	-2.5 (-3.3 - -1.7)	1.4 (0.3 - 2.5)	0.01	-1.8 (-2.8 - -0.7)	-2.8 (-3.7 - -2.0)	1.1 (-0.1 - 2.2)	0.07	
Angina pectoris	-1.6 (-2.6 - -0.5)	-3.0 (-3.8 - -2.1)	1.4 (0.3 - 2.5)	0.01	-2.1 (-3.2 - -1.0)	-3.2 (-4.0 - -2.3)	1.1 (-0.1 - 2.2)	0.07	
Left ventricular hypertrophy	-1.2 (-2.2 - -0.2)	-2.6 (-3.3 - -1.8)	1.4 (0.3 - 2.5)	0.02	-1.8 (-2.9 - -0.8)	-2.9 (-3.6 - -2.1)	1.0 (-0.1 - 2.2)	0.08	
Atrial fibrillation	-1.0 (-2.0 - 0.1)	-2.4 (-3.2 - -1.6)	1.4 (0.3 - 2.6)	0.01	-1.7 (-2.7 - -0.7)	-2.8 (-3.6 - -1.9)	1.1 (-0.1 - 2.2)	0.07	
Hypertension	-0.9 (-2.0 - 0.3)	-2.3 (-3.2 - -1.3)	1.4 (0.3 - 2.5)	0.01	-1.6 (-2.7 - -0.4)	-2.6 (-3.6 - -1.6)	1.1 (-0.1 - 2.2)	0.07	
<i>All comorbidities</i>	-1.0 (-2.5 - 0.6)	-2.3 (-3.7 - -0.9)	1.3 (0.2 - 2.4)	0.02	-2.1 (-3.8 - -0.5)	-3.2 (-4.7 - -1.7)	1.1 (-0.1 - 2.3)	0.06	
<b>Covariate groups</b>									
Demographics	-1.0 (-2.2 - 0.3)	-2.2 (-3.3 - -1.0)	1.2 (0.0 - 2.4)	0.06	-1.1 (-2.4 - 0.2)	-2.0 (-3.1 - -0.8)	0.8 (-0.4 - 2.1)	0.19	
Medication	-0.5 (-1.8 - 0.8)	-1.9 (-3.1 - -0.6)	1.4 (0.2 - 2.5)	0.02	-0.9 (-2.3 - 0.4)	-1.9 (-3.2 - -0.6)	1.0 (-0.2 - 2.1)	0.10	
Cardiovascular	-1.5 (-2.7 - -0.4)	-3.1 (-4.0 - -2.1)	1.5 (0.3 - 2.7)	0.01	-1.4 (-2.6 - -0.2)	-2.4 (-3.4 - -1.4)	1.0 (-0.2 - 2.2)	0.09	
Blood chemistry	-1.3 (-2.2 - -0.3)	-2.6 (-3.3 - -1.8)	1.3 (0.2 - 2.4)	0.02	-1.8 (-2.8 - -0.8)	-2.7 (-3.5 - -2.0)	0.9 (-0.3 - 2.1)	0.13	
Renal function	-1.1 (-2.1 - -0.1)	-2.0 (-2.8 - -1.2)	0.9 (-0.2 - 2.0)	0.11	-1.7 (-2.7 - -0.6)	-2.3 (-3.1 - -1.5)	0.6 (-0.5 - 1.8)	0.30	
Comorbidities	-1.0 (-2.5 - 0.6)	-2.3 (-3.7 - -0.9)	1.3 (0.2 - 2.4)	0.02	-2.1 (-3.8 - -0.5)	-3.2 (-4.7 - -1.7)	1.1 (-0.1 - 2.3)	0.06	

\*Included as spline effect due to non-linear relationship with HRQOL

Supplemental Table 9. Exploratory univariable sex-specific determinants of mean physical and mental QoL

	Physical component summary			Mental component summary		
			p-value for			p-value for
	Female	Male	interaction	Female	Male	interaction
<b>Demographics</b>	-0.6 ( -0.8 - -0.4 )	-0.5 ( -0.7 - -0.3 )	0.44	-0.4 ( -0.7 - -0.2 )	-0.2 ( -0.4 - -0.1 )	0.23
Age (per year)						
Education level						
Low education	Ref	Ref	0.97	Ref	Ref	0.54
Intermediate education	3.3 ( -0.5 - 7.2 )	3.1 ( 0.0 - 6.2 )		4.9 ( 0.9 - 8.9 )	2.3 ( -0.9 - 5.6 )	
High education	4.3 ( -2.3 - 10.9 )	4.8 ( 0.8 - 8.8 )		6.2 ( -0.7 - 13.1 )	4.2 ( 0.1 - 8.4 )	
Marital status						
Married	Ref	Ref	0.48	Ref	Ref	0.22
Divorced	-1.7 ( -8.1 - 4.8 )	-5.4 ( -11.3 - 0.5 )		-0.9 ( -7.7 - 5.8 )	-7.7 ( -13.8 - -1.6 )	
Widowed	-3.5 ( -7.7 - 0.6 )	-2.8 ( -6.8 - 1.2 )		-2.3 ( -6.6 - 2.0 )	-1.0 ( -5.2 - 3.1 )	
Never married	0.5 ( -8.3 - 9.4 )	5.7 ( -2.0 - 13.4 )		1.7 ( -7.5 - 10.9 )	5.3 ( -2.7 - 13.4 )	
One or more children	2.0 ( -2.6 - 6.7 )	3.4 ( 0.0 - 6.8 )		4.3 ( -0.6 - 9.2 )	4.7 ( 1.21 - 8.3 )	0.88
Primary kidney disease						
Glomerular disease	Ref	Ref	0.14	Ref	Ref	0.48
Tubulo-interstitial disease	3.8 ( -5.6 - 13.2 )	-1.0 ( -7.7 - 5.6 )		-1.6 ( -11.4 - 8.2 )	-0.1 ( -7.1 - 6.8 )	
Diabetes	-0.6 ( -9.4 - 8.2 )	-9.6 ( -14.8 - -4.5 )		-4.5 ( -13.6 - 4.7 )	-7.4 ( -12.9 - -2.0 )	
Hypertension	-1.9 ( -9.9 - 6.0 )	-4.6 ( -9.4 - 0.3 )		-4.5 ( -12.8 - 3.8 )	-2.3 ( -7.4 - 2.8 )	
Miscellaneous renal disorders	-0.3 ( -8.5 - 8.0 )	-5.7 ( -10.9 - -0.5 )		-5.6 ( -14.3 - 3.0 )	-3.4 ( -8.9 - 2.0 )	
<b>Medication</b>						
Hyperpolypharmacy	-3.4 ( -5.8 - -0.9 )	-3.1 ( -4.8 - -1.3 )	0.85	-3.2 ( -5.8 - -0.6 )	-3.3 ( -5.2 - -1.4 )	0.96
Antidepressant prescription	-3.7 ( -7.4 - -0.1 )	-1.4 ( -5.5 - 2.7 )	0.40	-4.6 ( -8.5 - -0.8 )	-2.1 ( -6.45 - 2.3 )	0.39
<b>Cardiovascular</b>						
BMI (per kg/m <sup>2</sup> )	-0.3 ( -0.4 - -0.2 )	-0.3 ( -0.4 - -0.2 )	0.88	-0.1 ( -0.3 - 0.0 )	-0.1 ( -0.2 - 0.0 )	0.77
Systolic blood pressure (per 10 mmHg)	-0.2 ( -0.6 - 0.2 )	0.4 ( 0.1 - 0.7 )	0.02	0.0 ( -0.4 - 0.5 )	0.4 ( 0.0 - 0.7 )	0.21
Diastolic blood pressure (per 10 mmHg)	0.3 ( -0.4 - 1.1 )	0.6 ( 0.1 - 1.2 )	0.52	0.3 ( -0.5 - 1.1 )	0.6 ( 0.1 - 1.2 )	0.54
Hb (per g/dL)	0.7 ( 0.1 - 1.4 )	1.5 ( 1.1 - 1.9 )	0.05	0.9 ( 0.3 - 1.6 )	1.9 ( 1.4 - 2.3 )	0.02
Smoking status						
Current smoker	Ref	Ref		Ref	Ref	
Ex-smoker	0.2 ( -7.2 - 7.5 )	0.0 ( -4.8 - 4.7 )	0.53	3.9 ( -3.7 - 11.6 )	-0.3 ( -5.2 - 4.7 )	0.36
Never	0.5 ( -6.6 - 7.6 )	2.72 ( -2.4 - 7.8 )	0.53	2.0 ( -5.4 - 9.4 )	0.6 ( -4.7 - 5.9 )	0.36

<b>Blood chemistry</b>						
Albumin (per g/dL)	0.4 ( 0.2 - 0.5 )	0.4 ( 0.3 - 0.5 )	0.58	0.3 ( 0.0 - 0.4 )	0.4 ( 0.2 - 0.5 )	0.33
Calcium (mg/dL)	-0.3 ( -1.5 - 1.0 )	0.3 ( -0.7 - 1.3 )	0.47	1.6 ( 0.2 - 2.9 )	1.6 ( 0.5 - 2.6 )	0.97
Cholesterol (per 25 mg/dL) at 100 mg/dL	1.3 ( 0.1 - 2.4 )	1.2 ( 0.5 - 1.9 )	0.86	1.7 ( 0.4 - 2.9 )	1.4 ( 0.6 - 2.2 )	0.73
Cholesterol (per 25 mg/dL) at 200 mg/dL	0.1 ( -0.3 - 0.5 )	0.4 ( 0.1 - 0.8 )	0.16	1.5 ( 0.3 - 2.7 )	1.2 ( 0.4 - 2.0 )	0.71
PO4 (per mmol/L)	0.8 ( -0.1 - 1.6 )	-1.5 ( -2.1 - -0.9 )	<.001	0.2 ( -0.7 - 1.2 )	-2.0 ( -2.6 - -1.4 )	<.001
Potassium (mEq/L)	1.0 ( -0.5 - 2.4 )	0.8 ( -0.3 - 1.8 )	0.83	1.3 ( -0.3 - 2.8 )	0.8 ( -0.3 - 1.9 )	0.63
<b>Renal function</b>						
CKDEPI (per 5 ml/min/1.73m2) at 10 ml/min/1.73m2	0.4 ( -2.0 - 2.9 )	4.7 ( 3.2 - 6.2 )	<.001	2.9 ( 0.3 - 5.5 )	5.6 ( 4.0 - 7.2 )	0.09
CKDEPI (per 5 ml/min/1.73m2) at 20 ml/min/1.73m2	0.8 ( -0.4 - 2.0 )	-0.2 ( -1.1 - 0.8 )	0.23	0.7 ( -0.6 - 2.0 )	-0.1 ( -1.1 - 0.9 )	0.31
UACR (per log ACR)	-0.2 ( -0.6 - 0.2 )	-0.1 ( -0.3 - 0.2 )	0.51	-0.5 ( -0.9 - -0.1 )	-0.2 ( -0.5 - 0.1 )	0.22
<b>Comorbidities</b>						
Diabetes (present vs. absent)	-4.2 ( -7.5 - -0.9 )	-7.6 ( -10.0 - -5.3 )	0.10	-1.7 ( -5.1 - 1.8 )	-6.8 ( -9.1 - -4.4 )	0.02
Chronic heart failure (present vs. absent)	-7.2 ( -11.1 - -3.2 )	-7.2 ( -10.0 - -4.5 )	0.98	-5.3 ( -9.5 - -1.1 )	-5.6 ( -8.5 - -2.7 )	0.91
Cerebrovascular disease (present vs. absent)	-5.9 ( -10.4 - -1.3 )	-4.8 ( -8.0 - -1.6 )	0.71	-2.4 ( -7.2 - 2.4 )	-2.0 ( -5.4 - 1.4 )	0.91
Peripheral vascular disease (present vs. absent)	-4.2 ( -8.8 - 0.5 )	-6.5 ( -9.4 - -3.6 )	0.40	-2.0 ( -6.9 - 2.8 )	-7.7 ( -10.7 - -4.6 )	0.05
Myocardial infarction (present vs. absent)	-9.3 ( -14.3 - -4.4 )	-4.1 ( -7.0 - -1.2 )	0.07	-6.9 ( -12.1 - -1.8 )	-3.9 ( -6.9 - -0.9 )	0.32
Angina pectoris (present vs. absent)	-8.0 ( -12.9 - -3.0 )	-7.1 ( -10.0 - -4.2 )	0.76	-5.9 ( -11.1 - -0.7 )	-5.9 ( -8.9 - -2.8 )	0.98
Left ventricular hypertrophy (present vs. absent)	-1.6 ( -4.8 - 1.6 )	-3.3 ( -5.5 - -1.1 )	0.40	-1.7 ( -5.1 - 1.7 )	-4.8 ( -7.1 - -2.4 )	0.14
Atrial fibrillation (present vs. absent)	-5.9 ( -9.9 - -1.8 )	-6.2 ( -9.1 - -3.2 )	0.90	-1.7 ( -5.9 - 2.5 )	-3.7 ( -6.8 - -0.6 )	0.44
Hypertension (present vs. absent)	1.8 ( -3.2 - 6.7 )	1.8 ( -1.9 - 5.6 )	0.99	0.3 ( -4.9 - 5.4 )	0.8 ( -3.1 - 4.7 )	0.87

Supplemental Figure 1. Flow chart.

