

Supplement Table 1: Stage stratification table: rate of composite renal outcome in the two AKDN internal validation datasets, for individuals aged ≥ 60

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	42					42
nonevents, n	10,210					10,210
Rate	1.3					1.3
% of row	100.0					-
% of total population	-					46.5
Stage 1						
events, n		4		3		7
nonevents, n		368		52		420
Rate		4.0		18.7		6.0
% of row		87.1		12.9		-
% of total population		-		-		1.9
Stage 2						
events, n		28		27		55
nonevents, n		2667		470		3,137
Rate		3.5		18.7		5.8
% of row		84.4		15.6		-
% of total population		-		-		14.5
Stage 3						
events, n		23	40	22	71	156
nonevents, n		3,706	2,494	714	582	7,496
Rate		1.9	5.0	10.5	36.9	6.4
% of row		48.7	33.1	9.6	8.5	-
% of total population		-	-	-	-	34.7
Stage 4						
events, n				5	69	74
nonevents, n				146	288	434
Rate				11.8	82.0	58.5
% of row				29.7	70.3	-
% of total population				-	-	2.3
Total						
events, n	42	55	40	57	140	334
nonevents, n	10,210	6,741	2,494	1,382	870	21,697
Rate	1.3	2.6	5.0	13.8	50.6	4.9
% of total population	46.5	30.9	11.5	6.5	4.6	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	237					237
nonevents, n	70,106					70,106
Rate	1.1					1.1
% of row	100.0					-
% of total population	-					61.9
Stage 1						
events, n		7		8		15
nonevents, n		747		126		873
Rate		4.1		27.4		7.5
% of row		84.9		15.1		-
% of total population		-		-		0.8
Stage 2						
events, n		64		29		93
nonevents, n		5715		957		6,672
Rate		3.9		11.4		4.9
% of row		85.4		14.6		-
% of total population		-		-		6.0
Stage 3						
events, n		126	119	48	107	400
nonevents, n		22,426	8,518	1,402	1,266	33,612
Rate		1.8	4.7	12.3	31.4	3.9
% of row		66.3	25.4	4.3	4.0	-
% of total population		-	-	-	-	29.9
Stage 4						
events, n				38	149	187
nonevents, n				777	668	1,445
Rate				18.1	89.7	49.8
% of row				49.9	50.1	-
% of total population				-	-	1.4
Total						
events, n	237	197	119	123	256	932
nonevents, n	70,106	28,888	8,518	3,262	1,934	112,708
Rate	1.1	2.2	4.7	13.9	50.5	2.8
% of total population	61.9	25.6	7.6	3.0	1.9	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed composite renal outcome rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed composite renal outcome rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 2: Stage stratification table: rate of composite renal outcome in the two AKDN internal validation datasets, for individuals aged <60

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	26					26
nonevents, n	21,752					21,752
Rate	0.4					0.4
% of row	100.0					-
% of total population	-					74.3
Stage 1						
events, n		13		8		21
nonevents, n		1,585		298		1,883
Rate		3.1		10.5		4.2
% of row		83.9		16.1		-
% of total population		-		-		6.5
Stage 2						
events, n		14		20		34
nonevents, n		2684		524		3,208
Rate		1.8		12.4		3.5
% of row		83.2		16.8		-
% of total population		-		-		11.1
Stage 3						
events, n		5	3	2	49	59
nonevents, n		1,415	463	100	248	2,226
Rate		1.1	2.1	6.3	56.8	8.3
% of row		62.1	20.4	4.5	13.0	-
% of total population		-	-	-	-	7.8
Stage 4						
events, n				0	37	37
nonevents, n				16	63	79
Rate				0	150.3	126.6
% of row				13.8	86.2	-
% of total population				-	-	0.4
Total						
events, n	26	32	3	30	86	177
nonevents, n	21,752	5,684	463	938	311	29,148
Rate	0.4	1.9	2.1	11.0	77.6	2.1
% of total population	74.3	19.5	1.6	3.3	1.4	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	138					138
nonevents, n	306,593					306,593
Rate	0.2					0.2
% of row	100.0					-
% of total population	-					88.4
Stage 1						
events, n		20		11		31
nonevents, n		8,024		1080		9,104
Rate		1.0		4.1		1.4
% of row		88.1		11.9		-
% of total population		-		-		2.6
Stage 2						
events, n		21		30		51
nonevents, n		14607		1783		16,390
Rate		0.5		6.1		1.1
% of row		89.0		11.0		-
% of total population		-		-		4.7
Stage 3						
events, n		14	16	8	69	107
nonevents, n		11,879	1,710	158	520	14,267
Rate		0.4	3.0	16.6	41.7	2.5
% of row		82.7	12.0	1.2	4.1	-
% of total population		-	-	-	-	4.1
Stage 4						
events, n				11	89	100
nonevents, n				65	137	202
Rate				50.8	167.0	133.4
% of row				25.2	74.8	-
% of total population				-	-	0.1
Total						
events, n	138	55	16	60	158	427
nonevents, n	306,593	34,510	1,710	3,086	657	346,556
Rate	0.2	0.6	3.0	7.3	72.2	0.5
% of total population	88.4	10.0	0.5	0.9	0.2	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed composite renal outcome rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed composite renal outcome rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 3: Stage stratification table: rate of composite renal outcome in the two AKDN internal validation datasets, for individuals with diabetes

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	44					44
nonevents, n	15,468					15,468
Rate	0.9					0.9
% of row	100.0					-
% of total population	-					55.9
Stage 1						
events, n		14		9		23
nonevents, n		1,325		250		1,575
Rate		3.8		13.0		5.2
% of row		83.8		16.2		-
% of total population		-		-		5.8
Stage 2						
events, n		33		43		76
nonevents, n		3,539		729		4,268
Rate		3.0		18.5		5.7
% of row		82.2		17.8		-
% of total population		-		-		15.7
Stage 3						
events, n		18	37	18	105	178
nonevents, n		2,668	1,866	545	641	5,720
Rate		2.0	6.0	10.7	48.1	9.3
% of row		45.5	32.3	9.6	12.7	-
% of total population		-	-	-	-	21.3
Stage 4						
events, n				4	79	83
nonevents, n				90	232	322
Rate				14.5	104.7	80.5
% of row				23.2	76.8	-
% of total population				-	-	1.5
Total						
events, n	44	65	37	74	184	404
nonevents, n	15,468	7,532	1,866	1,614	873	27,353
Rate	0.9	2.7	6.0	14.8	62.7	4.6
% of total population	55.9	27.4	6.9	6.1	3.8	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	89					89
nonevents, n	19,985					19,985
Rate	1.5					1.5
% of row	100.0					-
% of total population	-					61.4
Stage 1						
events, n		7		6		13
nonevents, n		859		237		1,096
Rate		3.0		10.2		4.5
% of row		78.1		21.9		-
% of total population		-		-		3.4
Stage 2						
events, n		30		28		58
nonevents, n		2616		716		3,332
Rate		3.7		13.2		5.7
% of row		78.1		22.0		-
% of total population		-		-		10.4
Stage 3						
events, n		50	55	19	115	239
nonevents, n		3,910	2,155	483	676	7,224
Rate		4.0	8.3	13.3	55.5	10.5
% of row		53.1	29.6	6.7	10.6	-
% of total population		-	-	-	-	22.8
Stage 4						
events, n				13	121	134
nonevents, n				258	294	552
Rate				18.8	137.7	85.4
% of row				39.5	60.5	-
% of total population				-	-	2.1
Total						
events, n	89	87	55	66	236	533
nonevents, n	19,985	7,385	2,155	1,694	970	32,189
Rate	1.5	3.8	8.3	13.7	80.0	5.5
% of total population	61.4	22.8	6.8	5.4	3.7	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed composite renal outcome rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed composite renal outcome rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 4: Stage stratification table: rate of composite renal outcome in the two AKDN internal validation datasets, for individuals without diabetes

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	24					24
nonevents, n	16,494					16,494
Rate	0.6					0.6
% of row	100.0					-
% of total population	-					70.0
Stage 1						
events, n		3		2		5
nonevents, n		628		100		728
Rate		2.1		8.7		3.0
% of row		86.1		13.9		-
% of total population		-		-		3.1
Stage 2						
events, n		9		4		13
nonevents, n		1812		265		2,077
Rate		1.8		5.6		2.3
% of row		87.1		12.9		-
% of total population		-		-		8.9
Stage 3						
events, n		10	6	6	15	37
nonevents, n		2,453	1,091	269	189	4,002
Rate		1.3	1.8	8.3	24.8	3.0
% of row		61.0	27.2	6.8	5.1	-
% of total population		-	-	-	-	17.1
Stage 4						
events, n				1	27	28
nonevents, n				72	119	191
Rate				5.2	80.9	53.1
% of row				33.3	66.7	-
% of total population				-	-	0.9
Total						
events, n	24	22	6	13	42	107
nonevents, n	16,494	4,893	1,091	706	308	23,492
Rate	0.6	1.6	1.8	7.0	44.8	1.7
% of total population	70.0	20.8	4.7	3.1	1.5	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	286					286
nonevents, n	356,714					356,714
Rate	0.3					0.3
% of row	100.0					-
% of total population	-					83.4
Stage 1						
events, n		20		13		33
nonevents, n		7,912		969		8,881
Rate		1.0		5.5		1.5
% of row		89.0		11.0		-
% of total population		-		-		2.1
Stage 2						
events, n		55		31		86
nonevents, n		17,706		2,024		19,730
Rate		1.1		5.8		1.6
% of row		89.6		10.4		-
% of total population		-		-		4.6
Stage 3						
events, n		90	80	37	61	268
nonevents, n		30,395	8,073	1,077	1,110	40,655
Rate		1.0	3.3	12.6	20.4	2.2
% of row		74.5	19.9	2.7	2.9	-
% of total population		-	-	-	-	9.6
Stage 4						
events, n				36	117	153
nonevents, n				584	511	1,095
Rate				22.2	89.0	52.1
% of row				49.7	50.3	-
% of total population				-	-	0.3
Total						
events, n	286	165	80	117	178	826
nonevents, n	356,714	56,013	8,073	4,654	1,621	427,075
Rate	0.3	1.0	3.3	9.5	41.3	0.7
% of total population	83.4	13.1	1.9	1.1	0.4	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed composite renal outcome rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed composite renal outcome rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 5: Stage stratification table: rate of composite renal outcome in the two AKDN internal validation datasets, for men

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	stage 1	stage 2	stage 3	stage 4	
0 (no CKD)						
events, n	38					38
nonevents, n	18,129					18,129
Rate	0.7					0.7
% of row	100.0					-
% of total population	-					64.9
Stage 1						
events, n		11		7		18
nonevents, n		1,165		218		1,383
Rate		3.5		11.9		4.8
% of row		83.9		16.1		-
% of total population		-		-		5.0
Stage 2						
events, n		24		24		48
nonevents, n		3,109		627		3,736
Rate		2.6		12.9		4.3
% of row		82.8		17.2		-
% of total population		-		-		13.5
Stage 3						
events, n		11	18	15	73	117
nonevents, n		2,112	1,289	377	482	4,260
Rate		1.6	4.6	13.8	46.0	8.7
% of row		48.5	29.9	9.0	12.7	-
% of total population		-	-	-	-	15.6
Stage 4						
events, n				1	66	67
nonevents, n				47	166	213
Rate				8.3	121.8	101.1
% of row				17.1	82.9	-
% of total population				-	-	1.0
Total						
events, n	38	46	18	47	139	288
nonevents, n	18,129	6,386	1,289	1,269	648	27,721
Rate	0.7	2.4	4.6	12.8	65.3	20.6
% of total population	64.9	23.0	4.7	4.7	2.8	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	stage 1	stage 2	stage 3	stage 4	
0 (no CKD)						
events, n	181					181
nonevents, n	168,979					168,979
Rate	0.4					0.4
% of row	100.0					-
% of total population	-					83.0
Stage 1						
events, n		14		13		27
nonevents, n		3,951		594		4,545
Rate		1.5		9.2		2.5
% of row		86.7		13.3		-
% of total population		-		-		2.2
Stage 2						
events, n		55		33		88
nonevents, n		10,297		1,605		11,902
Rate		1.9		7.7		2.6
% of row		86.3		13.7		-
% of total population		-		-		5.9
Stage 3						
events, n		53	57	34	109	253
nonevents, n		11,627	3,754	681	1,024	17,086
Rate		1.5	5.2	18.3	38.1	4.9
% of row		67.4	22.0	4.1	6.5	-
% of total population		-	-	-	-	8.5
Stage 4						
events, n				30	135	165
nonevents, n				228	374	602
Rate				49.2	129.3	99.8
% of row				33.6	66.4	-
% of total population				-	-	0.4
Total						
events, n	181	122	57	110	244	714
nonevents, n	168,979	25,875	3,754	3,108	1,398	203,114
Rate	0.4	1.6	5.2	13.4	62.5	1.31
% of total population	83.0	12.8	1.9	1.6	0.8	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed composite renal outcome rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed composite renal outcome rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 6: Stage stratification table: rate of composite renal outcome in the two AKDN internal validation datasets, for women

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	stage 1	stage 2	stage 3	stage 4	
0 (no CKD)						
events, n	30					30
nonevents, n	13,833					13,833
Rate	0.7					0.7
% of row	100.0					-
% of total population	-					59.4
Stage 1						
events, n		6		4		10
nonevents, n		788		132		920
Rate		2.9		12.0		4.1
% of row		85.4		14.6		-
% of total population		-		-		4.0
Stage 2						
events, n		18		23		41
nonevents, n		2,242		367		2,609
Rate		2.7		19.5		5.2
% of row		85.3		14.7		-
% of total population		-		-		11.4
Stage 3						
events, n		17	25	9	47	98
nonevents, n		3,009	1,668	437	348	5,462
Rate		1.7	4.6	6.8	39.1	5.5
% of row		54.4	30.5	8.0	7.1	-
% of total population		-	-	-	-	23.8
Stage 4						
events, n				4	40	44
nonevents, n				115	185	300
Rate				11.5	73.3	49.1
% of row				34.6	65.4	-
% of total population				-	-	1.5
Total						
events, n	30	41	25	40	87	223
nonevents, n	13,833	6,039	1,668	1,051	533	23,124
Rate	0.7	2.2	4.6	12.5	49.8	3.2
% of total population	59.4	26.0	7.3	4.7	2.7	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	stage 1	stage 2	stage 3	stage 4	
0 (no CKD)						
events, n	194					194
nonevents, n	207,720					207,720
Rate	0.3					0.3
% of row	100.0					-
% of total population	-					81.0
Stage 1						
events, n		13		6		19
nonevents, n		4,820		612		5,432
Rate		1.1		3.9		1.4
% of row		88.7		11.3		-
% of total population		-		-		2.1
Stage 2						
events, n		30		26		56
nonevents, n		10,025		1,135		11,160
Rate		1.0		8.3		1.7
% of row		89.7		10.4		-
% of total population		-		-		4.4
Stage 3						
events, n		87	78	22	67	254
nonevents, n		22,678	6,474	879	762	30,793
Rate		1.2	4.0	8.8	30.4	2.7
% of row		73.3	21.1	2.9	2.7	-
% of total population		-	-	-	-	12.1
Stage 4						
events, n				19	103	122
nonevents, n				614	431	1,045
Rate				11.2	89.5	42.8
% of row				54.2	45.8	-
% of total population				-	-	0.5
Total						
events, n	194	130	78	73	170	645
nonevents, n	207,720	37,523	6,474	3,240	1,193	256,150
Rate	0.3	1.2	4.0	8.2	50.7	0.9
% of total population	81.0	14.7	2.6	1.3	0.5	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed composite renal outcome rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed composite renal outcome rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 7: Stage stratification table: rate of all-cause mortality in the two AKDN internal validation datasets, for individuals aged ≥ 60

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	606					606
nonevents, n	9,646					9,646
Rate	18.9					18.9
% of row	100.0					-
% of total population	-					46.5
Stage 1						
events, n		40		10		50
nonevents, n		332		45		377
Rate		39.9		62.4		43.0
% of row		87.1		12.9		-
% of total population		-		-		1.9
Stage 2						
events, n		293		104		397
nonevents, n		2402		393		2,795
Rate		36.4		72.0		41.9
% of row		84.4		15.6		-
% of total population		-		-		14.5
Stage 3						
events, n		303	410	171	169	1,053
nonevents, n		3,426	2,124	565	484	6,599
Rate		24.8	51.4	81.2	86.9	43.4
% of row		48.7	33.1	9.6	8.5	-
% of total population		-	-	-	-	34.7
Stage 4						
events, n				39	143	182
nonevents, n				112	214	326
Rate				91.3	158.5	136.9
% of row				29.7	70.3	-
% of total population				-	-	2.3
Total						
events, n	606	636	410	324	312	2,288
nonevents, n	9,646	6,160	2,124	1,115	698	19,743
Rate	18.9	29.9	51.4	78.3	109.6	33.5
% of total population	46.5	30.9	11.5	6.5	4.6	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	4,402					4,402
nonevents, n	65,941					65,941
Rate	21.1					21.1
% of row	100.0					-
% of total population	-					61.9
Stage 1						
events, n		233		50		283
nonevents, n		521		84		605
Rate		137.2		172.0		142.3
% of row		84.9		15.1		-
% of total population		-		-		0.8
Stage 2						
events, n		979		240		1,219
nonevents, n		4,800		746		5,546
Rate		59.2		94.4		63.91
% of row		85.4		14.6		-
% of total population		-		-		6.0
Stage 3						
events, n		2,121	1,820	507	483	4,931
nonevents, n		20,431	6,817	943	890	29,081
Rate		30.3	71.7	129.8	140.6	48.0
% of row		66.3	25.4	4.3	4.0	-
% of total population		-	-	-	-	29.9
Stage 4						
events, n				290	409	699
nonevents, n				525	408	933
Rate				137.5	227.3	178.8
% of row				49.9	50.1	-
% of total population				-	-	1.4
Total						
events, n	4,402	3,333	1,820	1,087	892	11,534
nonevents, n	65,941	25,752	6,817	2,298	1,298	102,106
Rate	21.1	37.8	71.7	122.8	170.4	34.3
% of total population	61.9	25.6	7.6	3.0	1.9	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed mortality rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed mortality rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 8: Stage stratification table: rate of all-cause mortality in the two AKDN internal validation datasets, for individuals aged <60

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	222					222
nonevents, n	21,556					21,556
Rate	3.7					3.7
% of row	100.0					-
% of total population	-					74.3
Stage 1						
events, n		28		16		44
nonevents, n		1,570		290		1,860
Rate		6.7		20.9		8.8
% of row		83.9		16.1		-
% of total population		-		-		6.5
Stage 2						
events, n		58		17		75
nonevents, n		2,640		527		3,167
Rate		7.3		10.5		7.8
% of row		83.2		16.8		-
% of total population		-		-		11.1
Stage 3						
events, n		25	25	5	25	80
nonevents, n		1,395	441	97	272	2,205
Rate		5.5	17.3	15.7	27.6	11.1
% of row		62.1	20.4	4.5	13.0	-
% of total population		-	-	-	-	7.8
Stage 4						
events, n				4	13	17
nonevents, n				12	87	99
Rate				86.8	41.7	47.5
% of row				13.8	86.2	-
% of total population				-	-	0.4
Total						
events, n	222	111	25	42	38	438
nonevents, n	21,556	5,605	441	926	359	28,887
Rate	3.7	6.6	17.3	15.3	31.2	5.3
% of total population	74.3	19.5	1.6	3.3	1.4	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	1,775					1,775
nonevents, n	304,956					304,956
Rate	2.2					2.2
% of row	100.0					-
% of total population	-					88.4
Stage 1						
events, n		174		33		207
nonevents, n		7,870		1058		8,928
Rate		8.7		12.4		9.2
% of row		88.1		11.9		-
% of total population		-		-		2.6
Stage 2						
events, n		215		44		259
nonevents, n		14413		1769		16,182
Rate		5.1		8.9		5.5
% of row		89.0		11.0		-
% of total population		-		-		4.7
Stage 3						
events, n		125	66	16	36	243
nonevents, n		11,768	1,660	150	553	14,131
Rate		3.5	12.2	33.3	21.0	5.5
% of row		82.7	12.0	1.2	4.1	-
% of total population		-	-	-	-	4.1
Stage 4						
events, n				10	35	45
nonevents, n				66	191	257
Rate				42.0	52.7	49.9
% of row				25.2	74.8	-
% of total population				-	-	0.1
Total						
events, n	1,775	514	66	103	71	2,529
nonevents, n	304,956	34,051	1,660	3,043	744	344,454
Rate	2.2	5.3	12.2	12.4	29.8	2.7
% of total population	88.4	10.0	0.5	0.9	0.2	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed mortality rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed mortality rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 9: Stage stratification table: rate of all-cause mortality in the two AKDN internal validation datasets, for individuals with diabetes

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	525					525
nonevents, n	14,987					14,987
Rate	10.7					10.7
% of row	100.0					-
% of total population	-					55.9
Stage 1						
events, n		51		23		74
nonevents, n		1,288		236		1,524
Rate		13.6		33.2		16.7
% of row		83.8		16.2		-
% of total population		-		-		5.8
Stage 2						
events, n		276		105		381
nonevents, n		3,296		667		3,963
Rate		24.9		44.8		28.3
% of row		82.2		17.8		-
% of total population		-		-		15.7
Stage 3						
events, n		214	302	134	159	809
nonevents, n		2,472	1,601	429	587	5,089
Rate		23.6	49.3	79.2	70.9	42.3
% of row		45.5	32.3	9.6	12.7	-
% of total population		-	-	-	-	21.3
Stage 4						
events, n				26	113	139
nonevents, n				68	198	266
Rate				93.4	132.5	122.9
% of row				23.2	76.8	-
% of total population				-	-	1.5
Total						
events, n	525	541	302	288	272	1,928
nonevents, n	14,987	7,056	1,601	1,400	785	25,829
Rate	10.7	22.6	49.3	57.5	87.9	22.1
% of total population	55.9	27.4	6.9	6.1	3.8	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	1,011					1,011
nonevents, n	19,063					19,063
Rate	16.8					16.8
% of row	100.0					-
% of total population	-					61.4
Stage 1						
events, n		51		22		73
nonevents, n		815		221		1,036
Rate		22.2		37.4		25.3
% of row		78.1		21.9		-
% of total population		-		-		3.4
Stage 2						
events, n		292		109		401
nonevents, n		2,354		635		2,989
Rate		36.1		51.3		39.2
% of row		78.1		22.0		-
% of total population		-		-		10.4
Stage 3						
events, n		477	503	159	223	1,362
nonevents, n		3,483	1,707	343	568	6,101
Rate		38.0	75.7	111.1	104.4	59.9
% of row		53.1	29.6	6.7	10.6	-
% of total population		-	-	-	-	22.8
Stage 4						
events, n				99	185	284
nonevents, n				172	230	402
Rate				142.6	179.1	164.5
% of row				39.5	60.5	-
% of total population				-	-	2.1
Total						
events, n	1,011	820	503	389	408	3,131
nonevents, n	19,063	6,652	1,707	1,371	798	29,591
Rate	16.7	35.7	75.7	80.4	128.8	32.0
% of total population	61.4	22.8	6.8	5.4	3.7	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed mortality rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed mortality rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 10: Stage stratification table: rate of all-cause mortality in the two AKDN internal validation datasets, for individuals without diabetes

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	303					303
nonevents, n	16,215					16,215
Rate	6.9					6.9
% of row	100.0					-
% of total population	-					70.0
Stage 1						
events, n		17		3		20
nonevents, n		614		99		713
Rate		11.6		12.8		11.8
% of row		86.1		13.9		-
% of total population		-		-		3.1
Stage 2						
events, n		75		16		91
nonevents, n		1746		253		1,999
Rate		15.2		22.2		16.1
% of row		87.1		12.9		-
% of total population		-		-		8.9
Stage 3						
events, n		114	133	42	35	324
nonevents, n		2,349	964	233	169	3,715
Rate		14.9	40.6	57.3	57.5	26.4
% of row		61.0	27.2	6.8	5.1	-
% of total population		-	-	-	-	17.1
Stage 4						
events, n				17	43	60
nonevents, n				56	103	159
Rate				87.3	119.0	107.9
% of row				33.3	66.7	-
% of total population				-	-	0.9
Total						
events, n	303	206	133	78	78	798
nonevents, n	16,215	4,709	964	641	272	22,801
Rate	6.9	14.6	40.6	41.4	80.4	12.5
% of total population	70.0	20.8	4.7	3.1	1.5	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	1	2	3	4	
0 (no CKD)						
events, n	5,166					5,166
nonevents, n	351,834					351,834
Rate	5.4					5.4
% of row	100.0					-
% of total population	-					83.4
Stage 1						
events, n		356		61		417
nonevents, n		7,576		921		8,497
Rate		18.5		25.7		19.3
% of row		89.0		11.0		-
% of total population		-		-		2.1
Stage 2						
events, n		902		175		1,077
nonevents, n		16,859		1,880		18,739
Rate		17.9		32.8		19.4
% of row		89.6		10.4		-
% of total population		-		-		4.6
Stage 3						
events, n		1,769	1,383	364	296	3,812
nonevents, n		28,716	6,770	750	875	37,111
Rate		18.9	57.3	123.2	98.1	30.8
% of row		74.5	19.9	2.7	2.9	-
% of total population		-	-	-	-	9.6
Stage 4						
events, n				201	259	460
nonevents, n				419	369	788
Rate				121.6	181.1	149.2
% of row				49.7	50.3	-
% of total population				-	-	0.3
Total						
events, n	5,166	3,027	1,383	801	555	10,932
nonevents, n	351,834	53,151	6,770	3,970	1,244	416,969
Rate	5.4	18.5	57.3	65.0	124.8	9.4
% of total population	83.4	13.1	1.9	1.1	0.4	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed mortality rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed mortality rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 11: Stage stratification table: rate of all-cause mortality in the two AKDN internal validation datasets, for men

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	stage 1	stage 2	stage 3	stage 4	
0 (no CKD)						
events, n	570					570
nonevents, n	17,597					17,597
Rate	11.0					11.0
% of row	100.0					-
% of total population	-					64.9
Stage 1						
events, n		50		22		72
nonevents, n		1,126		203		1,329
Rate		16.0		37.4		19.4
% of row		83.9		16.1		-
% of total population		-		-		5.0
Stage 2						
events, n		232		76		308
nonevents, n		2,901		575		3,476
Rate		25.0		40.5		27.6
% of row		82.8		17.2		-
% of total population		-		-		13.5
Stage 3						
events, n		166	237	91	125	619
nonevents, n		1,957	1,070	301	430	3,758
Rate		24.5	59.9	83.0	76.8	46.0
% of row		48.5	29.9	9.0	12.7	-
% of total population		-	-	-	-	15.6
Stage 4						
events, n				18	75	93
nonevents, n				30	157	187
Rate				149.6	117.8	122.9
% of row				17.1	82.9	-
% of total population				-	-	1.0
Total						
events, n	570	448	237	207	200	1,662
nonevents, n	17,597	5,984	1,070	1,109	587	26,347
Rate	11.0	23.4	59.9	56.2	88.3	20.6
% of total population	64.9	23.0	4.7	4.7	2.8	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	stage 1	stage 2	stage 3	stage 4	
0 (no CKD)						
events, n	3,588					3,588
nonevents, n	165,572					165,572
Rate	8.0					8.0
% of row	100.0					-
% of total population	-					83.0
Stage 1						
events, n		273		59		332
nonevents, n		3,692		548		4,240
Rate		28.9		41.7		30.6
% of row		86.7		13.3		-
% of total population		-		-		2.2
Stage 2						
events, n		698		174		872
nonevents, n		9,654		1,464		11,118
Rate		23.9		40.4		26.0
% of row		86.3		13.7		-
% of total population		-		-		5.9
Stage 3						
events, n		952	788	247	299	2,286
nonevents, n		10,728	3,023	468	834	15,053
Rate		26.9	71.3	131.8	102.6	44.6
% of row		67.4	22.0	4.1	6.5	-
% of total population		-	-	-	-	8.5
Stage 4						
events, n				99	199	298
nonevents, n				159	310	469
Rate				155.8	163.2	160.6
% of row				33.6	66.4	-
% of total population				-	-	0.4
Total						
events, n	3,588	1,923	788	579	498	7,376
nonevents, n	165,572	24,074	3,023	2,639	1,144	196,452
Rate	8.0	26.0	71.3	70.3	120.5	13.5
% of total population	83.0	12.8	1.9	1.6	0.8	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed mortality rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed mortality rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

Supplement Table 12: Stage stratification table: rate of all-cause mortality in the two AKDN internal validation datasets, for women

Panel A: ACR

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	stage 1	stage 2	stage 3	stage 4	
0 (no CKD)						
events, n	258					258
nonevents, n	13,605					13,605
Rate	6.3					6.3
% of row	100.0					-
% of total population	-					59.4
Stage 1						
events, n		18		4		22
nonevents, n		776		132		908
Rate		8.6		11.8		9.1
% of row		85.4		14.6		-
% of total population		-		-		4.0
Stage 2						
events, n		119		45		164
nonevents, n		2141		345		2,486
Rate		17.6		37.8		20.6
% of row		85.3		14.7		-
% of total population		-		-		11.4
Stage 3						
events, n		162	198	85	69	514
nonevents, n		2,864	1,495	361	326	5,046
Rate		16.2	36.3	64.0	56.4	28.6
% of row		54.4	30.5	8.0	7.1	-
% of total population		-	-	-	-	23.8
Stage 4						
events, n				25	81	106
nonevents, n				94	144	238
Rate				70.8	140.2	113.9
% of row				34.6	65.4	-
% of total population				-	-	1.5
Total						
events, n	258	299	198	159	150	1,064
nonevents, n	13,605	5,781	1,495	932	470	22,283
Rate	6.3	15.9	36.3	49.6	83.3	15.1
% of total population	59.4	26.0	7.3	4.7	2.7	-

Panel B: Dipstick

CKD risk category from NKF KDOQI	CKD risk category from alternative system					Total
	0 (no CKD)	stage 1	stage 2	stage 3	stage 4	
0 (no CKD)						
events, n	2,589					2,589
nonevents, n	205,325					205,325
Rate	4.5					4.5
% of row	100.0					-
% of total population	-					81.0
Stage 1						
events, n		134		24		158
nonevents, n		4,699		594		5,293
Rate		11.0		15.5		11.5
% of row		88.7		11.3		-
% of total population		-		-		2.1
Stage 2						
events, n		496		110		606
nonevents, n		9,559		1,051		10,610
Rate		17.0		34.8		18.7
% of row		89.7		10.4		-
% of total population		-		-		4.4
Stage 3						
events, n		1,294	1,098	276	220	2,888
nonevents, n		21,471	5,454	625	609	28,159
Rate		18.3	55.6	109.9	98.3	30.3
% of row		73.3	21.1	2.9	2.7	-
% of total population		-	-	-	-	12.1
Stage 4						
events, n				201	245	446
nonevents, n				432	289	721
Rate				117.4	197.0	150.9
% of row				54.2	45.8	-
% of total population				-	-	0.5
Total						
events, n	2,589	1,924	1,098	611	465	6,687
nonevents, n	205,325	35,729	5,454	2,702	898	250,108
Rate	4.5	17.2	55.6	68.4	133.6	9.3
% of total population	81.0	14.7	2.6	1.3	0.5	-

% of row indicates the movement percentage of individuals from the NKF KDOQI staging system to the alternative system

% of total population indicates the percentage of total individuals falling within each NKF KDOQI category and alternative system category

Participants were classified according to the current and alternative systems, and the observed mortality rates were cross-tabulated by stage/risk category. Shaded boxes indicate groups of participants who would be reclassified under the alternative system, as compared to the current NKF KDOQI system.

Column and row totals show the observed mortality rates in the current NKF KDOQI and alternative systems, respectively.

CKD chronic kidney disease

