

Surveillance of CKD epidemiology in the US – a joint analysis of NHANES and KEEP

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Supplementary Tables

Supplemental Table 1. Prevalence of CKD Stage 3 and Stage 4-5 by sex and age from NHANES and KEEP (2001-2012) without and with inverse probability weighting (% and 95% CI). NHANES estimates accounted for sampling design. KEEP WTD-GEE estimates accounted for participant self-selection and clustering within regional affiliates. CKD – chronic kidney disease; KEEP – Kidney Early Evaluation Program; NHANES - National Health and Nutrition Examination Survey

Sex	Age	Stage 3			Stage 4-5		
		NHANES	KEEP	KEEP WTD-GEE	NHANES	KEEP	KEEP WTD-GEE
Female	20-39	0.06 (0.02-0.18)	0.84 (0.70-1.00)	0.55 (0.34-0.89)	0.07 (0.02-0.20)	0.12 (0.08-0.19)	0.01 (0.00-0.02)
	40-59	2.52 (1.95-3.25)	5.44 (5.21-5.67)	4.46 (3.80-5.22)	0.12 (0.07-0.21)	0.34 (0.29-0.41)	0.17 (0.11-0.25)
	60-69	11.49 (9.68-13.59)	17.06 (16.53-17.61)	15.19 (13.54-17.01)	0.52 (0.33-0.82)	0.89 (0.77-1.04)	0.41 (0.27-0.63)
	70+	36.25 (34.23-38.32)	39.50 (38.73-40.28)	39.24 (37.17-41.34)	3.74 (3.05-4.58)	3.02 (2.77-3.31)	3.42 (2.66-4.40)
	Male	20-39	0.24 (0.12-0.49)	1.64 (1.36-1.97)	0.88 (0.63-1.23)	0.01 (0.00-0.10)	0.29 (0.19-0.45)
	40-59	1.74 (1.30-2.32)	5.40 (5.08-5.75)	4.01 (3.25-4.96)	0.04 (0.02-0.11)	0.53 (0.43-0.65)	0.13 (0.07-0.21)
	60-69	9.84 (8.55-11.31)	16.09 (15.34-16.87)	13.67 (12.29-15.17)	0.65 (0.34-1.22)	1.11 (0.91-1.35)	0.74 (0.51-1.06)
	70+	31.74 (29.86-33.69)	36.24 (35.18-37.31)	35.66 (33.21-38.17)	2.72 (2.14-3.45)	3.56 (3.17-4.00)	3.41 (2.81-4.15)

Supplemental Table 2. Linear trend estimates for CKD Stage: NHANES and KEEP WTD-GEE. Coefficient estimates are for a two-year change. NHANES estimates account for sampling strata and clusters using two year sampling weights for mobile clinics, and are estimates for the domain that met selection criteria. KEEP estimates employed inverse probability weighting for self-selection and used GEE to account for affiliate sampling clusters.

	Coefficient (95% CI) for 2-yr Change			
Stage	NHANES	P-value	KEEP WTD-GEE	P-value
3	-0.00085 (-0.0210, 0.0193)	0.93	-0.0035 (-0.0591, 0.0522)	0.90
3-5	0.000192 (-0.0194, 0.0198)	0.98	-0.0038 (-0.0591, 0.0515)	0.89
4-5	0.0122 (-0.0376, 0.0620)	0.63	-0.0075 (-0.1303, 0.1153)	0.90