

Figure S19. Odds ratios of laboratory abnormalities in CKD (top panels) and general population and high risk cohorts (bottom panels)

Chronic Kidney Disease

Anemia				Hyperkalemia				Acidosis			
eGFR	A1	A2	A3	eGFR	A1	A2	A3	eGFR	A1	A2	A3
>90				>90				>90			
75-89				75-89				75-89			
60-74	0.66 (0.58, 0.74)	0.76 (0.59, 0.98)	1.03 (0.82, 1.29)	60-74	0.61 (0.58, 0.64)	0.84 (0.69, 1.03)	1.01 (0.73, 1.39)	60-74	0.72 (0.67, 0.77)	1.20 (0.98, 1.47)	1.07 (0.76, 1.51)
45-59	1.00 (Ref)	1.11 (0.99, 1.25)	1.43 (1.17, 1.76)	45-59	1.00 (Ref)	1.12 (1.00, 1.26)	1.30 (1.07, 1.58)	45-59	1.00 (Ref)	1.53 (1.16, 2.01)	1.73 (1.24, 2.41)
20-44	2.10 (1.98, 2.23)	2.08 (1.85, 2.35)	2.36 (2.13, 2.62)	20-44	1.82 (1.60, 2.09)	2.31 (1.94, 2.75)	2.32 (2.04, 2.63)	20-44	2.11 (1.97, 2.27)	3.25 (2.76, 3.84)	2.94 (2.36, 3.67)
15-29	5.09 (4.41, 5.87)	4.94 (4.18, 5.83)	6.34 (5.49, 7.31)	15-29	3.49 (2.99, 4.07)	3.49 (2.83, 4.31)	3.69 (3.01, 4.52)	15-29	5.78 (4.46, 7.50)	8.09 (5.83, 11.21)	8.37 (6.48, 10.83)

Hyperparathyroidism				Hyperphosphatemia				Hypocalcemia			
eGFR	A1	A2	A3	eGFR	A1	A2	A3	eGFR	A1	A2	A3
>90				>90				>90			
75-89				75-89				75-89			
60-74	0.62 (0.50, 0.77)	0.81 (0.66, 0.99)	0.63 (0.52, 0.78)	60-74	0.80 (0.69, 0.93)	1.04 (0.55, 1.95)	1.24 (0.91, 1.69)	60-74	0.95 (0.73, 1.23)	1.00 (0.62, 1.63)	0.83 (0.63, 1.08)
45-59	1.00 (Ref)	1.11 (0.99, 1.24)	1.26 (0.98, 1.62)	45-59	1.00 (Ref)	1.06 (0.99, 1.13)	1.64 (1.14, 2.36)	45-59	1.00 (Ref)	1.14 (0.88, 1.46)	0.87 (0.68, 1.10)
20-44	2.44 (2.06, 2.88)	2.90 (2.27, 3.71)	3.23 (2.67, 3.92)	20-44	1.72 (1.48, 2.01)	1.78 (1.48, 2.13)	2.40 (2.05, 2.80)	20-44	1.40 (1.22, 1.60)	1.58 (1.11, 2.26)	1.12 (0.81, 1.54)
15-29	4.39 (3.35, 5.75)	6.44 (4.92, 8.43)	10.15 (7.67, 13.45)	15-29	8.46 (6.83, 10.49)	7.61 (5.44, 10.65)	10.89 (8.10, 14.65)	15-29	3.34 (2.72, 4.10)	3.86 (2.79, 5.34)	3.16 (2.31, 4.32)

General Population and High Risk

Anemia				Hyperkalemia				Acidosis			
eGFR	A1	A2	A3	eGFR	A1	A2	A3	eGFR	A1	A2	A3
>90	0.47 (0.38, 0.57)	0.57 (0.47, 0.69)	0.80 (0.69, 0.92)	>90	0.26 (0.17, 0.38)	0.36 (0.26, 0.50)	0.35 (0.23, 0.53)	>90	0.46 (0.33, 0.65)	0.58 (0.38, 0.89)	0.34 (0.20, 0.58)
75-89	0.43 (0.37, 0.51)	0.62 (0.54, 0.71)	0.88 (0.74, 1.04)	75-89	0.34 (0.24, 0.47)	0.48 (0.38, 0.61)	0.43 (0.31, 0.59)	75-89	0.55 (0.44, 0.68)	0.62 (0.33, 1.17)	0.56 (0.36, 0.88)
60-74	0.55 (0.51, 0.61)	0.83 (0.75, 0.92)	1.12 (0.97, 1.29)	60-74	0.51 (0.41, 0.65)	0.68 (0.50, 0.91)	0.81 (0.65, 1.01)	60-74	0.66 (0.56, 0.77)	0.79 (0.62, 0.99)	1.09 (0.79, 1.49)
45-59	1.00 (Ref)	1.34 (1.23, 1.47)	1.93 (1.66, 2.26)	45-59	1.00 (Ref)	1.09 (0.92, 1.28)	1.38 (1.04, 1.83)	45-59	1.00 (Ref)	1.44 (1.15, 1.81)	1.82 (1.45, 2.27)
20-44	2.26 (1.99, 2.57)	2.74 (2.31, 3.25)	4.00 (3.21, 4.99)	20-44	1.94 (1.46, 2.58)	2.30 (1.85, 2.86)	2.46 (1.91, 3.16)	20-44	2.15 (1.83, 2.52)	3.43 (2.78, 4.25)	3.12 (2.59, 3.75)
15-29	6.94 (4.83, 9.98)	8.22 (5.61, 12.04)	12.54 (8.29, 18.99)	15-29	3.91 (2.46, 6.20)	4.33 (3.17, 5.92)	5.42 (3.75, 7.82)	15-29	4.11 (3.26, 5.18)	7.05 (4.64, 10.72)	7.13 (5.16, 9.86)

Hyperparathyroidism				Hyperphosphatemia				Hypocalcemia			
eGFR	A1	A2	A3	eGFR	A1	A2	A3	eGFR	A1	A2	A3
>90	0.47 (0.32, 0.71)	0.68 (0.57, 0.80)	0.76 (0.39, 1.48)	>90	0.56 (0.42, 0.75)	0.55 (0.47, 0.64)	0.68 (0.53, 0.87)	>90	1.99 (1.10, 3.59)	1.79 (1.04, 3.07)	1.80 (0.88, 3.66)
75-89	0.46 (0.32, 0.67)	0.66 (0.46, 0.94)	0.59 (0.31, 1.10)	75-89	0.66 (0.53, 0.81)	0.69 (0.59, 0.80)	0.75 (0.52, 1.09)	75-89	1.45 (1.03, 2.04)	1.22 (0.90, 1.64)	1.11 (0.75, 1.65)
60-74	0.62 (0.46, 0.84)	0.95 (0.67, 1.35)	0.88 (0.68, 1.14)	60-74	0.82 (0.70, 0.95)	0.87 (0.74, 1.02)	0.87 (0.56, 1.33)	60-74	1.17 (0.96, 1.43)	1.21 (0.88, 1.67)	0.88 (0.67, 1.15)
45-59	1.00 (Ref)	1.46 (1.11, 1.92)	1.83 (1.48, 2.26)	45-59	1.00 (Ref)	1.04 (0.86, 1.26)	1.12 (0.81, 1.55)	45-59	1.00 (Ref)	1.00 (0.80, 1.25)	0.77 (0.60, 0.99)
20-44	2.11 (1.79, 2.49)	3.07 (1.64, 5.75)	4.80 (3.87, 5.95)	20-44	1.81 (1.54, 2.12)	1.31 (0.95, 1.82)	1.68 (1.09, 2.60)	20-44	1.05 (0.68, 1.62)	1.48 (0.79, 2.78)	1.12 (0.46, 2.72)
15-29	5.04 (2.95, 8.62)	11.16 (7.81, 15.96)	21.27 (15.74, 28.74)	15-29	6.76 (5.42, 8.42)	4.52 (2.55, 8.00)	6.43 (3.70, 11.18)	15-29	2.31 (1.37, 3.92)	3.09 (1.47, 6.47)	2.91 (1.17, 7.25)

Adjustment was to 60 years old, half male, non-black, 30% diabetes, 20% history of CVD, 40% ever smoker, SPB 130 mmHg, BMI 30kg/m², stage A1, eGFR 50

Bold font indicates statistical significance (p<0.05). Color coding is based on odds ratio quartile within each abnormality.

Definitions of each abnormality are as follows: Anemia: Hgb: male <13 g/dL, female <12 g/dL; Hct: male <39%, female <36%. Hyperkalemia: potassium >5 mmol/L. Acidosis: bicarbonate <22 mmol/L. Hyperparathyroidism: intact PTH >65 pg/mL. Hyperphosphatemia: phosphorus >4.5 mg/dL. Hypocalcemia: corrected calcium <8.5 mg/dL.