

Table S3: Comparison of percentage bias of the CKD-EPI and MDRD Study equations by clinical characteristics subgroups

Group		Equation	Overall			eGFR<60			eGFR 60-90			eGFR >90		
			N	% Bias	CI	N	% Bias	CI	N	% Bias	CI	N	% Bias	CI
Overall		CKD-EPI	3896	4.4	(3.7,5.1)	1902	5.6	(4.4,6.6)	990	5.6	(4.1,6.9)	1004	0.8	(-0.7,2.5)
		MDRD	3896	10.3	(9.7,11.1)	2100	9.6	(8.5,10.6)	1124	14.3	(12.9,15.3)	672	5.7	(4.1,7.6)
Age	<40	CKD-EPI	1136	3.4	(1.4,4.6)	256	4.1	(0.9,6.7)	260	6.4	(3.6,9.6)	620	0.8	(-1.3,3.8)
	40-65		2192	5.1	(4.2,6.0)	1170	6.3	(5.0,7.7)	645	5.9	(4.3,7.3)	377	1.0	(-1.2,2.5)
	>65		568	3.7	(1.3,6.1)	476	4.3	(2.0,6.7)	85	1.0	(-2.6,7.5)	7	0.6	(-58.6,14.5)
	<40	MDRD	1136	12.5	(11.2,14.0)	309	13.0	(10.6,15.2)	379	17.1	(15.3,19.7)	44	7.8	(5.9,9.9)
	40-65		2192	11.1	(10.0,11.8)	1310	11.1	(9.6,12.1)	665	13.1	(11.8,14.9)	217	2.2	(-2.6,4.6)
	>65		568	3.8	(1.9,5.7)	481	3.3	(0.8,5.7)	80	5.9	(2.4,9.7)	7	-19.8	(-64.8,5.7)
Female	Yes	CKD-EPI	1767	4.3	(3.1,5.6)	780	5.0	(2.8,7.1)	509	7.3	(5.0,9.9)	478	0.4	(-1.7,2.5)
	No		2129	4.4	(3.4,5.4)	1122	5.9	(4.4,7.2)	481	4.0	(2.1,5.8)	526	1.6	(-0.8,3.9)
	Yes	MDRD	1767	11.6	(10.4,12.6)	880	11.4	(9.4,12.8)	562	15.4	(13.9,17.9)	325	5.7	(3.8,8.1)
	No		2129	9.6	(8.6,10.4)	1220	8.5	(7.2,9.9)	562	12.7	(11.2,14.6)	347	5.7	(3.0,9.0)
Race	Black	CKD-EPI	384	-3.0	(-4.6,1.1)	220	1.7	(-3.5,6.1)	69	4.5	(-5.7,7.1)	95	-12.5	(-19.4,-6.7)
	White or other		3512	4.9	(4.2,5.8)	1682	6.0	(4.7,7.1)	921	5.8	(4.1,7.3)	909	2.4	(0.4,4.0)
	Black	MDRD	384	0.6	(-2.0,4.1)	222	0.6	(-3.6,4.3)	83	9.4	(5.1,12.1)	79	-6.9	(-14.3,-1.5)
	White or other		3512	11.1	(10.4,11.9)	1878	10.2	(9.3,11.4)	1041	14.8	(13.3,15.6)	593	7.6	(5.1,9.3)
Diabetes	Yes	CKD-EPI	1089	4.6	(3.9,5.5)	553	7.1	(5.5,9.3)	204	5.2	(2.6,7.9)	332	10.3	(8.5,11.6)
	No		2807	2.7	(1.8,3.8)	1349	4.8	(3.4,6.2)	786	5.7	(4.0,7.4)	672	-3.3	(-4.8,-2.0)
	Yes	MDRD	1089	13.0	(11.8,14.7)	601	11.0	(9.2,12.9)	235	17.4	(14.2,21.1)	253	14.9	(11.5,17.4)
	No		2807	9.2	(8.4,10.1)	1499	9.0	(7.7,10.1)	889	13.4	(12.2,14.7)	419	0.4	(-2.2,2.5)
Transplant	Yes	CKD-EPI	1134	3.1	(1.4,4.5)	731	6.7	(4.8,8.9)	311	-1.8	(-4.9,1.0)	92	-11.8	(-14.9,-3.5)
	No		2762	4.9	(4.1,5.8)	1171	4.8	(3.3,6.2)	679	8.8	(6.9,10.5)	912	2.1	(0.3,3.8)
	Yes	MDRD	1134	9.4	(8.1,11.2)	840	11.7	(9.9,13.1)	241	5.5	(0.9,8.7)	53	-6.1	(-12.3,3.5)
	No		2762	10.7	(9.9,11.4)	1260	8.4	(7.0,9.7)	883	16.0	(15.2,17.6)	619	6.4	(4.5,8.5)
BMI (kg/m ²)	<20	CKD-EPI	249	-6.8	(-10.0,-3.3)	120	-6.3	(-11.8,0.2)	73	-1.9	(-6.9,3.8)	56	-18.1	(-25.0,-8.8)
	20-25		1357	4.2	(2.9,5.0)	589	4.9	(2.9,7.0)	341	5.7	(3.6,8.8)	427	1.5	(-1.3,4.2)
	26-30		1339	6.3	(5.3,7.9)	643	7.1	(5.1,9.1)	350	6.7	(4.5,9.2)	346	4.4	(0.9,7.7)
	>30		951	4.4	(2.4,5.8)	550	6.1	(4.0,8.1)	226	5.1	(1.8,7.1)	175	-0.7	(-3.8,1.7)
	<20	MDRD	249	1.0	(-3.2,4.5)	139	0.3	(-4.2,4.5)	74	8.9	(3.8,14.3)	36	-14.0	(-23.6,-6.7)
	20-25		1357	10.7	(9.4,11.8)	656	10.6	(8.7,12.0)	408	14.2	(11.2,16.3)	293	6.4	(3.4,9.3)
	26-30		1339	12.0	(10.8,13.0)	705	9.9	(8.5,12.0)	412	15.4	(14.1,17.8)	222	8.1	(4.9,10.7)
	>30		951	9.6	(8.0,10.7)	600	9.6	(7.3,11.2)	230	12.4	(9.9,14.8)	121	5.3	(-1.3,8.1)

Note: Percent bias (% Bias) is calculated as $100 \times (\text{mGFR} - \text{eGFR})/\text{mGFR}$. GFR expressed in ml/min/1.73 m²; factor for conversion to ml/s/1.73 m², $\times 0.01667$.

Abbreviations: BMI, Body mass index; CI, confidence interval; CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration; eGFR, estimated glomerular filtration rate; MDRD, Modification of Diet in Renal Disease.