

Supplementary Online Content

da Silva Selistre L, Rech DL, deSouza V, Iwaz J, Lemoine S, Dubourg L. Diagnostic performance of creatinine-based equations for estimating glomerular filtration rate in adults 65 years and older. *JAMA Intern Med*. Published online April 29, 2019. doi:10.1001/jamainternmed.2019.0223

eTable 1. Median Bias and P₃₀ Comparisons Between GFR-Estimating Equations

eTable 2. Bias, Precision, and Accuracy of the Four GFR-Estimating Equations According to Measured GFR

eTable 3. Performance Criteria of the Four GFR-Estimating Equations in 466 Obese Patients (BMI ≥30 kg/m²)

eTable 4. Performance Criteria of the Four GFR-Estimating Equations in 311 Kidney Transplanted Patients

eTable 5. Performance Criteria of the Four GFR-Estimating Equations According to Categories of Albuminuria

eTable 6. Performance Criteria of the Four GFR-Estimating Equations According to Renal Function

eFigure. ROC Curve Analysis of Diagnostic Accuracy of Calculated Clearance From the CKD-EPI, LMR, FAS and BIS 1 Equations

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1* Median Bias and P₃₀ Comparisons Between GFR-Estimating Equations.

Categories and pairwise comparisons	Difference in median bias (95% CI)	P value	Difference in median P ₃₀ (95% CI)	P value
<i>Measured GFR <45 mL/min/1.73 m² (N=991)^a</i>				
Patients aged 65-74 years (N=670) ^b				
CKD-EPI - LMR	-3.0 (2.5, -3.5)	.08	-5.0 (-9.5; 0.0)	.08
CKD-EPI - FAS	0.0 (-0.5; 0.0)	.50	-2.0 (-0.5; 3.0)	.48
CKD-EPI - BIS 1	3.0 (3.0; 3.5)	.003	8.0 (-3.0; 13.0)	.004
Patients aged ≥75 years (N=321) ^c				
CKD-EPI - LMR	-4.0 (-4.5, -3.5)	<.001	-5.5 (-12.0; 1.5)	.30
CKD-EPI - FAS	-1.0 (-1.5; -0.5)	.04	2.5 (-0.5; 9.5)	.40
CKD-EPI - BIS 1	1.0 (0.5; 1.5)	.14	-0.5 (-11.0; 3.0)	.65
<i>Measured GFR ≥45 mL/min/1.73 m² (N=1,256)^d</i>				
Patients aged 65-74 years (N=1,040) ^e				
CKD-EPI - LMR	-5.0 (-6.5, -4.5)	<.001	-3.5 (-6.0; 0.0)	.08
CKD-EPI - FAS	-4.0 (-4.5; -3.0)	<.001	-3.0 (-3.0; -2.0)	.19
CKD-EPI - BIS 1	-5.0 (-6.0, -4.5)	<.001	-5.0 (-8.0; -0.5)	.001
Patients aged ≥75 years (N=216) ^f				
CKD-EPI - LMR	-5.0 (-5.0, -4.5)	<.001	0.0 (0.0; 0.0)	1.00
CKD-EPI - FAS	-6.0 (-6.5; -4.5)	<.001	1.5 (0.0; 1.5)	.80
CKD-EPI - BIS 1	-6.0 (-6.5; -4.5)	<.001	-2.0 (-2.0; 0.0)	.80
<i>Measured GFR <60mL/min/1.73 m² (N=1,560)^g</i>				
Patients aged 65-74 years (N=1,108) ^h				
CKD-EPI - LMR	-3.0 (-3.0, -3.0)	<.001	-5.0 (-5.0; -4.5)	.07
CKD-EPI - FAS	-1.0 (-1.0; 0.0)	.009	-4.0 (-4.0; -3.5)	.01
CKD-EPI - BIS 1	1.0 (0.0; 1.0)	.009	1.5 (1.5; 2.0)	.42
Patients aged ≥75 years (N=452) ⁱ				
CKD-EPI - LMR	-3.0 (-4.5, -3.5)	.32	-4.5 (-5.0; 4.0)	.32
CKD-EPI - FAS	-2.0 (-2.0; -1.5)	.32	-4.0 (-3.5; 4.5)	.32
CKD-EPI - BIS 1	-0.5 (-1.5; 0.5)	.95	0.0 (0.0; 0.0)	.94

* Continued on the next page.

eTable 1 (continued) – Median bias and P₃₀ comparisons between GFR-estimating equations.

Categories and pairwise comparisons	Difference in median bias (95% CI)	P value	Difference in median P ₃₀ (95% CI)	P value
<i>Measured GFR ≥60 mL/min/1.73 m² (N= 687)^j</i>				
Patients aged 65-74 years (N=602) ^k				
CKD-EPI - LMR	-7.0 (-8.0, -6.5)	<.001	-2.0 (-5.0; 2.0)	.49
CKD-EPI - FAS	-6.0 (-6.0; -5.5)	<.001	0.0 (-3.0; -4.5)	.86
CKD-EPI - BIS 1	-6.0 (-6.7, -5.5)	<.001	-2.0 (-5.5; 1.5)	.49
Patients aged 65-74 years (N=85) ^l				
CKD-EPI - LMR	-5.0 (-5.0, -4.5)	<.001	5.0 (-0.5; 12.0)	.82
CKD-EPI - FAS	-6.0 (-6.5; -4.5)	<.001	8.0 (0.0; 16.5)	.66
CKD-EPI - BIS 1	-6.0 (-6.5; -4.5)	<.001	6.0 (0.0; 14.0)	.72
Categories of albuminuria				
UACR <30 mg/g (N=940) ^m				
CKD-EPI - LMR	-4.0 (-4.0, -3.5)	<.001	-4.5 (-8.0; 0.0)	.06
CKD-EPI - FAS	-4.0 (-4.5, -3.0)	<.001	-3.0 (-6.5; 5.0)	.25
CKD-EPI - BIS 1	-3.0 (-4.0; -2.0)	<.001	-2.0 (-10.5; 7.0)	.45
UACR 30 to 300 mg/g (N=827) ⁿ				
CKD-EPI - LMR	-4.0 (-4.0, -3.5)	<.001	-2.0 (-6.0; 2.0)	.62
CKD-EPI - FAS	-2.0 (-2.0; -1.5)	.006	-2.5 (-6.5; 1.5)	.62
CKD-EPI - BIS 1	-1.0 (-2.5; -0.5)	.12	-3.5 (-4.5; -3.5)	.84
UACR >300 mg/g (N=480) ^o				
CKD-EPI - LMR	-3.5 (-4.5, -2.5)	<.001	-5.0 (-9.5; 0.0)	<.001
CKD-EPI - FAS	-1.0 (-2.5; -0.5)	.05	0.0 (-4.5; 5.0)	.88
CKD-EPI - BIS 1	2.0 (1.5, 3.0)	.23	6.5 (1.5; 12.0)	.05
Obese patients (N=466) ^p				
CKD-EPI - LMR	-3.0 (-3.5, -2.0)	<.001	-3.0 (-8.0; 2.5)	.46
CKD-EPI - FAS	-2.0 (-3.5, -1.5)	.022	-1.5 (-7.0; 4.0)	.64
CKD-EPI - BIS 1	0.0 (-1.0, 1.0)	.99	4.0 (-1.5; 9.0)	.27
Transplanted patients (N=311) ^q				
CKD-EPI - LMR	-3.0 (-3.5, -1.5)	<.001	-3.5 (-10.0; 3.0)	.55
CKD-EPI - FAS	-2.0 (-2.5, -1.5)	.005	-3.0 (-9.0; 3.5)	.54
CKD-EPI - BIS 1	0.0 (-0.5, 1.5)	.25	0.0 (-5.5; 7.5)	.55

Abbreviations: GFR, glomerular filtration rate; CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration equation; LMR, Lund-Malmö Revised equation; FAS, Full Age Spectrum equation; BIS 1, Berlin Initiative Study 1 equation; UACR, Urinary albumin creatinine ratio; CI, confidence interval.

^{a-q} Mean (±SD) measured GFR in mL/min/1.73 m²: ^a 30.5 ± 9.0; ^b 32.0 ± 9.0; ^c 28.5 ± 9.0; ^d 64.0 ± 15.5; ^e 52.0 ± 21.0; ^f 41.0 ± 19.0; ^g 38.5 ± 12.5; ^h 39.5 ± 12.5; ⁱ 35.0 ± 13.0; ^j 74.5 ± 13.0; ^k 75.0 ± 13.5; ^l 72.5 ± 12.0; ^m 57.5 ± 20.5; ⁿ 46.0 ± 19.5; ^o 39.0 ± 19.5; ^p 44.5 ± 21.7; ^q 47.0 ± 17.0.

eTable 2 - Bias, precision, and accuracy of the four GFR-estimating equations according to measured GFR.

Categories and criteria	CKD-EPI	LMR	FAS	BIS 1
<i>Measured GFR <45 mL/min/1.73 m² (N=991) ^a</i>				
Patients aged 65-74 years (N=670) ^b				
Median bias (95% CI)	-4.0 (-5.0; -3.0)	-1.0 (-2.5; 0.5)	-4.0 (-4.5; -2.5)	-7.0 (-8.0; -6.0)
IQR (95% CI)	11.0 (9.0; 12.0)	11.0 (9.0; 12.5)	10.0 (8.5;11.0)	10.0 (9.0; 11.0)
P ₃₀ (95% CI)	67.0 (64.0; 70.5)	72.0 (69.0; 76.0)	69.0 (65.5;72.5)	59.0 (55.0; 63.0)
RMSE (95% CI)	0.227 (0.174; 0.282)	0.260 (0.207; 0.315)	0.214 (0.162; 0.269)	0.186 (0.134; 0.242)
CCC (95% CI)	0.708 (0.672; 0.742)	0.738 (0.703; 0.770)	0.688 (0.649; 0.723)	0.597 (0.557; 0.634)
Patients aged ≥75 years (N=321) ^c				
Median bias(95% CI)	-4.0 (-5.0; -3.0)	-1.0 (-2.5; -0.5)	-3.0 (-4.0;-2.0)	-5.0 (-6.0;-4.0)
IQR (95% CI)	11.0 (10.0; 13.0)	10.0 (8.5; 12.0)	9.0 (7.5; 10.5)	8.0 (6.0; 9.5)
P ₃₀ (95% CI)	69.0 (64.5; 74.0)	74.5 (70.0; 79.5)	69.0 (65.5; 72.0)	73.0 (68.0; 78.0)
RMSE (95% CI)	0.227 (0.164; 0.293)	0.226 (0.163; 0.292)	0.202 (0.140; 0.269)	0.178 (0.116; 0.246)
CCC (95% CI)	0.734 (0.683; 0.777)	0.772 (0.724; 0.812)	0.735 (0.684; 0.778)	0.652 (0.598; 0.700)
<i>Measured GFR ≥45 mL/min/1.73 m² (N=1,256) ^d</i>				
Patients aged 65-74 years (N=1,040) ^e				
Median bias(95% CI)	-1.0 (-2.5; 0.0)	4.0 (3.0; 4.5)	4.0 (3.0; 5.0)	4.0 (3.5; 5.5)
IQR (95% CI)	16.0 (15.0; 17.5)	14.0 (12.0; 15.0)	13.0 (12.0; 15.0)	14.0 (13.0; 15.5)
P ₃₀ (95% CI)	85.0 (83.0; 87.0)	88.5 (86.5; 90.5)	88.0 (86.0; 90.0)	90.0 (88.0; 92.0)
RMSE (95% CI)	0.206 (0.164; 0.251)	0.193 (0.151; 0.237)	0.197 (0.155; 0.241)	0.172 (0.130; 0.217)
CCC (95% CI)	0.626 (0.589; 0.661)	0.605 (0.567; 0.640)	0.630 (0.594; 0.664)	0.641 (0.604; 0.674)
Patients aged ≥75 years (N=216) ^f				
Median bias(95% CI)	1.0 (-1.0; 2.5)	7.0 (6.0; 8.5)	7.0 (5.0; 8.0)	7.0 (5.5; 8.5)
IQR (95% CI)	15.0 (12.5; 17.5)	14.0 (12.0; 16.5)	13.0 (10.0; 15.0)	13.0 (11.0; 16.0)
P ₃₀ (95% CI)	88.0 (84.0; 92.0)	88.0 (84.0; 92.0)	86.5 (82.5; 92.0)	90.0 (88.0; 92.0)
RMSE (95% CI)	0.206 (0.115; 0.307)	0.192 (0.101; 0.294)	0.191 (0.100; 0.292)	0.165 (0.074; 0.268)
CCC (95% CI)	0.578 (0.487; 0.657)	0.503 (0.412; 0.585)	0.490 (0.399; 0.570)	0.497 (0.407; 0.578)

Abbreviations: GFR, glomerular filtration rate; CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration equation; LMR, Lund-Malmö Revised equation; FAS, Full Age Spectrum equation; BIS 1, Berlin Initiative Study 1 equation; CI, confidence interval; IQR, interquartile range; RMSE, Root mean square error;

CCC, Concordance correlation coefficient. ^{a-f} Mean (\pm SD) measured GFR in mL/min/1.73 m²: ^a 30.5 \pm 9.0; ^b 32.0 \pm 9.0 ; ^c 28.5 \pm 9.0 ; ^d 64.0 \pm 15.5; ^e 65.0 \pm 15.5 ; ^f 59.0 \pm 13.0.

eTable 3. Performance Criteria of the Four GFR-Estimating Equations in 466 Obese Patients (BMI \geq 30 kg/m²)^a.

Performance criterion	CKD-EPI	LMR	FAS	BIS 1
Median bias (95% CI)	-2.0 (-3.5; -0.5)	-3.0 (-4.5; -1.5)	-1.0 (-2.0; 0.5)	2.0 (-0.5; 1.5)
IQR (95% CI)	13.0 (11.0; 14.0)	13.0 (11.0; 14.5)	14.0 (13.0; 16.0)	13.0 (11.0; 14.5)
P ₃₀ (95% CI)	77.5 (74.0; 81.0)	82.0 (79.0; 86.0)	79.0 (75.0; 83.0)	73.5 (69.5; 77.0)
RMSE (95% CI)	0.227 (0.164; 0.293)	0.226 (0.163; 0.292)	0.202 (0.140; 0.269)	0.178 (0.116; 0.246)
CCC (95% CI)	0.868 (0.845; 0.889)	0.879 (0.857; 0.898)	0.864 (0.840; 0.884)	0.825 (0.799; 0.849)
AUC (95% CI)	0.918 (0.894; 0.941)	0.918 (0.895; 0.942)	0.916 (0.892; 0.940)	0.917 (0.892; 0.940)

Abbreviations: GFR, glomerular filtration rate; BMI, body mass index; CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration equation; LMR, Lund-Malmö Revised equation; FAS, Full Age Spectrum equation; BIS 1, Berlin Initiative Study 1 equation; CI, confidence interval; IQR, interquartile range; P₃₀, percentage of estimated GFRs that lay within range [measured GFR - 30% of measured GFR; measured GFR + 30% of measured GFR]; RMSE, root mean square error; CCC, Concordance correlation coefficient; AUC, area under the receiver operating characteristic curve. ^a Mean (\pm SD) of measured GFR = 44.5 \pm 21.7 mL/min/1.73 m²

eTable 4. Performance Criteria of the Four GFR-Estimating Equations in 311 Kidney Transplanted Patients^a.

Performance criterion	CKD-EPI	LMR	FAS	BIS 1
Median bias (95% CI)	-5.0 (-7.0; -3.0)	-1.0 (-2.5; 0.0)	-2.0 (-2.5; -0.5)	-4.0 (-5.0; -3.0)
IQR (95% CI)	13.5 (11.5; 15.5)	12.0 (9.5; 13.5)	11.0 (9.5; 12.5)	11.0 (8.8; 12.5)
P ₃₀ (95% CI)	78.5 (74.0; 83.0)	82.0 (78.0; 86.0)	81.5 (77.0; 86.0)	77.5 (72.7; 83.7)
RMSE (95% CI)	0.246 (0.169; 0.328)	0.232 (0.155; 0.314)	0.224 (0.148; 0.307)	0.238 (0.162; 0.320)
CCC (95% CI)	0.777 (0.827; 0.838)	0.796 (0.752; 0.834)	0.781 (0.736; 0.819)	0.732 (0.685; 0.774)
AUC (95% CI)	0.893 (0.857; 0.927)	0.893 (0.857; 0.927)	0.886 (0.850; 0.923)	0.890 (0.850; 0.925)

Abbreviations: GFR, glomerular filtration rate; CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration equation; LMR, Lund-Malmö Revised equation; FAS, Full Age Spectrum equation; BIS 1, Berlin Initiative Study 1 equation; CI, confidence interval; IQR, interquartile range; P₃₀, percentage of estimated GFRs that lay within range [measured GFR - 30% of measured GFR; measured GFR + 30% of measured GFR]; RMSE, root mean square error; CCC, Concordance correlation coefficient; AUC, area under the receiver operating characteristic curve. ^a Mean (± SD) of measured GFR = 47.0 ± 17.0 mL/min/1.73 m²)

eTable 5. Performance Criteria of the Four GFR-Estimating Equations According to Categories of Albuminuria.

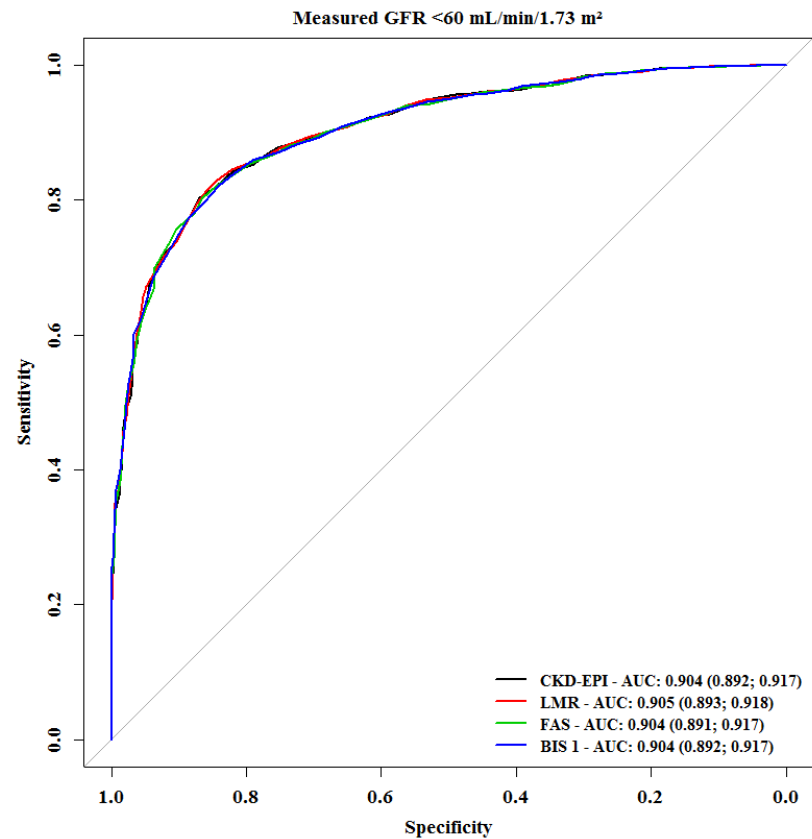
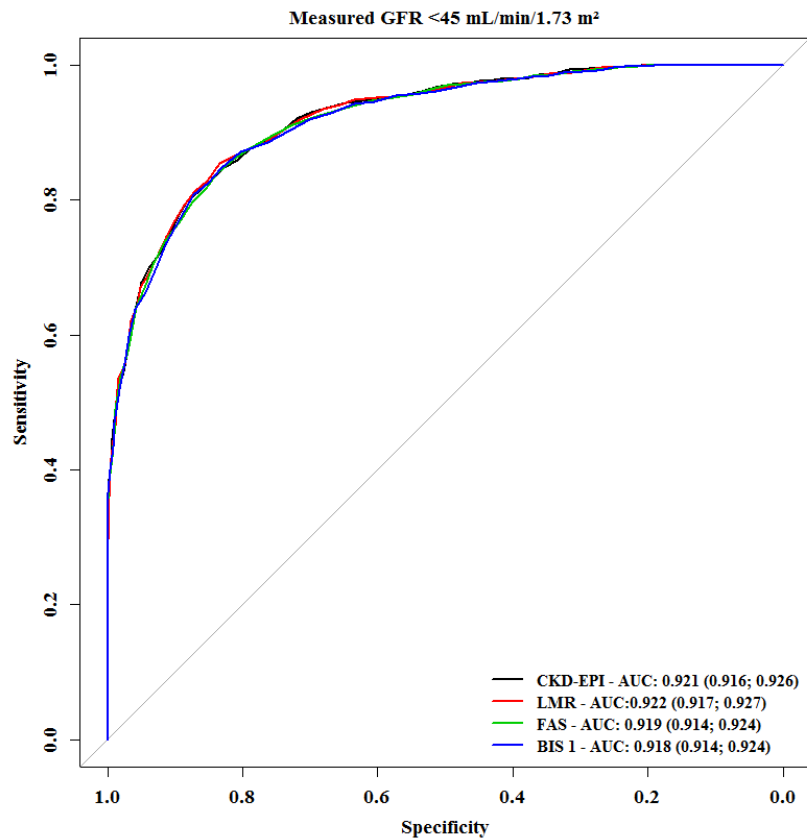
Categories and criteria	CKD-EPI	LMR	FAS	BIS 1
<i>UACR <30 mg/g (N=940)^a</i>				
Median bias(95% CI)	-2.0 (-3.0; -1.0)	3.0 (2.5; 4.5)	2.0 (1.0; 3.5)	1.0 (0.0; 2.0)
IQR (95% CI)	15.0 (13.0; 16.5)	15.0 (13.0; 17.0)	15.0 (13.5; 17.0)	15.0 (13.0; 16.5)
P ₃₀ (95% CI)	80.5 (78.0; 83.0)	85.0 (82.5; 87.0)	83.5 (81.0; 85.5)	82.0 (80.0; 85.0)
RMSE (95% CI)	0.204 (0.160; 0.250)	0.199 (0.155; 0.245)	0.168 (0.124; 0.215)	0.198 (0.155; 0.245)
CCC (95% CI)	0.811 (0.788; 0.831)	0.822 (0.800; 0.841)	0.806 (0.783; 0.826)	0.785 (0.762; 0.806)
AUC (95% CI)	0.896 (0.873; 0.919)	0.895 (0.872; 0.918)	0.893 (0.869; 0.916)	0.894 (0.870; 0.917)
<i>UACR 30 to 300 mg/g (N=827)^b</i>				
Median bias(95% CI)	-3.0 (-4.0; -2.0)	1.0 (-0.5; 1.5)	-1.0 (-2.0; 0.0)	-3.0 (-5.0; -2.0)
IQR (95% CI)	14.5 (13.0; 15.5)	14.0 (13.0; 15.5)	14.0 (13.0; 15.5)	14.0 (12.0; 15.0)
P ₃₀ (95% CI)	76.0 (73.0; 79.0)	78.0 (75.5; 81.0)	78.5 (76.0; 81.5)	76.5 (74.0; 79.5)
RMSE (95% CI)	0.239 (0.192; 0.288)	0.238 (0.191; 0.288)	0.215 (0.168; 0.265)	0.189 (0.142; 0.239)
CCC (95% CI)	0.830 (0.808; 0.850)	0.841 (0.820; 0.860)	0.823 (0.800; 0.843)	0.788 (0.764; 0.810)
AUC (95% CI)	0.899 (0.879; 0.919)	0.901 (0.882; 0.921)	0.894 (0.874; 0.915)	0.894 (0.874; 0.915)
<i>UACR >300 mg/g (N=480)^c</i>				
Median bias(95% CI)	-2.0 (-3.0; -0.5)	1.0 (0.0; 2.0)	-2.0 (-3.5; -1.0)	-3.0 (-4.0; -1.0)
IQR (95% CI)	11.0 (9.5; 12.0)	11.0 (10.0; 12.5)	10.0 (8.5; 11.5)	11.0 (9.5; 12.5)
P ₃₀ (95% CI)	76.0 (72.0; 79.5)	80.5 (77.0; 84.5)	75.5 (71.5; 79.0)	69.0 (65.5; 73.5)
RMSE (95% CI)	0.234 (0.175; 0.302)	0.235 (0.174; 0.301)	0.208 (0.146; 0.274)	0.182 (0.121; 0.249)
CCC (95% CI)	0.879 (0.857; 0.898)	0.887 (0.866; 0.904)	0.863 (0.840; 0.883)	0.817 (0.790; 0.840)
AUC (95% CI)	0.952 (0.934; 0.970)	0.951 (0.933; 0.968)	0.949 (0.931; 0.967)	0.951 (0.933; 0.968)

Abbreviations: GFR, glomerular filtration rate; CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration equation; LMR, Lund-Malmö Revised equation; FAS, Full Age Spectrum equation; BIS 1, Berlin Initiative Study 1 equation; UACR, Urinary albumin creatinine ratio. CI, confidence interval; IQR, interquartile range; P₃₀, percentage of estimated GFRs that lay within range [measured GFR - 30% of measured GFR; measured GFR + 30% of measured GFR]; RMSE, root mean square error; CCC, Concordance correlation coefficient; AUC, area under the receiver operating characteristic curve. ^{a-c} Mean (± SD) of measured GFR in mL/min/1.73 m²: ^a 57.5 ± 20.5; ^b 46.0 ± 19.5; ^c 39.0 ± 19.5.

eTable 6. Performance Criteria of the Four GFR-Estimating Equations According to Renal Function.

Categories and criteria	CKD-EPI	LMR	FAS	BIS 1
<i>Measured GFR <60 mL/min/1.73 m² (N=1,560)^a</i>				
Patients aged 65-74 years (N=1,108) ^b				
Median bias (95% CI)	-4.0 (-5.5; -3.5)	-1.0 (-2.5; -0.5)	-3.0 (-4.0; -2.5)	-5.0 (-5.5; -4.5)
IQR (95% CI)	13.0 (11.0; 14.5)	12.0 (11.0; 13.0)	12.0 (11.0; 13.5)	12.0 (11.5; 13.5)
P ₃₀ (95% CI)	73.0 (70.5; 76.0)	78.0 (75.5; 80.5)	77.0 (74.5; 79.5)	71.5 (69.0; 74.0)
RMSE (95% CI)	0.240 (0.199; 0.282)	0.240 (0.199; 0.283)	0.204 (0.163; 0.247)	0.178 (0.137; 0.221)
CCC (95% CI)	0.778 (0.754; 0.799)	0.808 (0.787; 0.827)	0.774 (0.750; 0.796)	0.716 (0.690; 0.740)
Patients aged ≥75 years (N=452) ^c				
Median bias (95% CI)	-3.0 (-3.5; -1.5)	0.0 (-1.5; 1.0)	-1.0 (-1.5; 0.0)	-3.0 (-4.0; -2.0)
IQR (95% CI)	12.0 (11.0; 14.0)	11.0 (9.5; 13.0)	10.0 (8.0; 11.5)	11.0 (10.0; 13.0)
P ₃₀ (95% CI)	74.0 (70.0; 78.0)	78.5 (75.0; 82.0)	77.5 (74.0; 81.0)	74.0 (70.0; 78.0)
RMSE (95% CI)	0.233 (0.170; 0.301)	0.237 (0.173; 0.305)	0.201 (0.138; 0.269)	0.174 (0.111; 0.243)
CCC (95% CI)	0.805 (0.872; 0.835)	0.832(0.801; 0.858)	0.802 (0.768; 0.831)	0.753 (0.717; 0.785)
<i>Measured GFR ≥60 mL/min/1.73 m² (N= 687)^d</i>				
Patients aged 65-74 years (N=602) ^e				
Median bias (95% CI)	1.0 (0.0; 2.5)	8.0 (7.0; 10.0)	7.0 (5.5; 8.5)	7.0 (5.0; 8.0)
IQR (95% CI)	17.0 (15.0; 18.5)	13.0 (10.5; 13.5)	15.0 (13.0; 17.0)	14.0 (12.5; 15.5)
P ₃₀ (95% CI)	87.5 (85.0; 90.0)	89.5 (87.0; 91.5)	87.0 (84.0; 89.5)	89.5 (87.0; 92.0)
RMSE (95% CI)	0.197 (0.142; 0.256)	0.182 (0.127; 0.241)	0.201 (0.146; 0.260)	0.176 (0.121; 0.235)
CCC (95% CI)	0.510 (0.454; 0.561)	0.447 (0.393; 0.497)	0.485 (0.434; 0.533)	0.489 (0.436; 0.538)
Patients aged 65-74 years (N=85) ^f				
Median bias (95% CI)	4.0 (0.5; 7.5)	12.0(9.0; 15.5)	13.0(9.0; 16.0)	14.0(11.5; 17.0)
IQR (95% CI)	16.0 (10.5; 21.5)	12.0 (7.0; 15.5)	13.0 (8.0; 16.0)	13.0 (9.0; 17.5)
P ₃₀ (95% CI)	92.0 (86.0; 98.0)	87.0 (80.0; 94.0)	83.5 (75.5; 92.0)	86.0 (78.5; 93.0)
RMSE (95% CI)	0.174 (0.00; 0.345)	0.150 (0.00; 0.325)	0.167 (0.00; 0.340)	0.146 (0.00; 0.321)
CCC (95% CI)	0.416 (0.243; 0.564)	0.416 (0.243; 0.564)	0.416 (0.243; 0.564)	0.416 (0.243; 0.564)

Abbreviations: GFR, glomerular filtration rate; CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration equation; LMR, Lund-Malmö Revised equation; FAS, Full Age Spectrum equation; BIS 1, Berlin Initiative Study 1 equation; CI, confidence interval; IQR, interquartile range; P₃₀, percentage of estimated GFRs that lay within range [measured GFR - 30% of measured GFR; measured GFR + 30% of measured GFR]; RMSE, root mean square error; CCC, Concordance correlation coefficient. ^{a-f} Mean (± SD) of measured GFR in mL/min/1.73 m²: ^a 38.5 ± 12.5; ^b 39.5 ± 12.5; ^c 35.0 ± 13.0; ^d 74.5 ± 13.0; ^e 75.0 ± 13.5; ^f 72.5 ± 12.0.



eFigure. ROC Curve Analysis of Diagnostic Accuracy of Calculated Clearance From the CKD-EPI, LMR, FAS and BIS 1 Equations. The mGFR determined with inulin was used as the reference standard and cut-off value was set at 45 and 60 mL/min/1.73 m². Confidence intervals were calculated by bootstrap methods (2,000 bootstraps) for all ROC. Abbreviations: CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration; LMR, Lund-Malmö Revised; FAS, Full Age Spectrum; BIS 1, Belim Initiative Study 1; GFR, glomerular filtration rate; ROC, Receiver operating characteristic. mGFR, Measured GFR. CI denotes confidence interval.