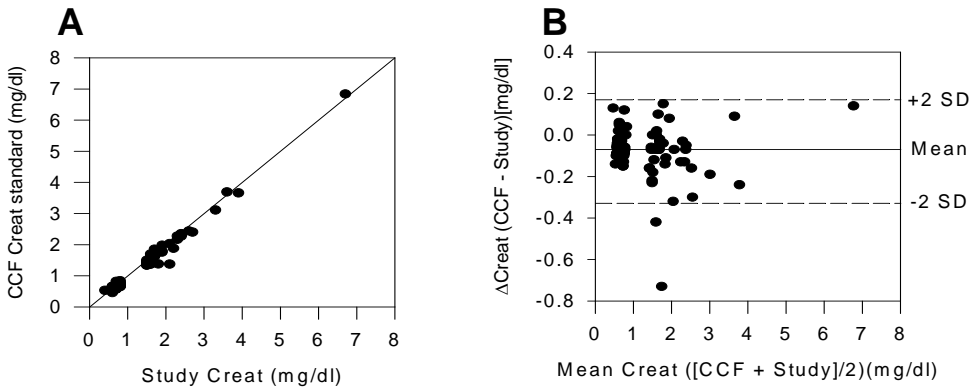


Figure 1



Creatinine assay validation from 40 samples. A, original study creatinine value (X-axis) versus quality control creatinine assay value obtained at Cleveland Clinic Foundation (CCF) reference laboratory (Y-axis). The two values were highly significantly correlated, with a mean difference between measurements = 0.07 mg/dl. B, Bland-Altman plot measuring the difference between the two assay values for each sample (Y-axis) versus mean values between samples (X-axis).

Table 1. Comparison of baseline patient characteristics between centers

	<u>Cases (CWRU)</u>	<u>Cases (WFU)</u>	<u>p-value</u>	<u>Controls (CWRU)</u>	<u>Controls (WFU)</u>	<u>p-value</u>
N	298	137		280	120	
Gender (% female)	64.8	58.4	0.20	72.5	54.2	< 0.01
Age (yr)	58.7 ± 10.7	59.2 ± 10.2	0.65	57.9 ± 12.0	64.6 ± 9.8	< 0.01
Race (% AA)	51.0	52.6	0.76	48.6	61.7	0.02
Diabetes duration (yr)	14.6 ± 9.5	12.9 ± 9.9	0.09	17.2 ± 9.2	17.2 ± 7.8	1.00
HbA1c (%)	7.7 ± 1.9	7.6 ± 1.8	0.60	7.9 ± 2.1	7.5 ± 1.5	0.06
Systolic BP (mm Hg)	136.2 ± 18.9	133.6 ± 15.5	0.16	134.2 ± 21.8	134.2 ± 15.8	1.0
Diastolic BP (mm Hg)	75.8 ± 12.3	76.0 ± 10.3	0.87	74.6 ± 13.2	74.8 ± 9.6	0.88
eGFR _{creat} (ml/min/1.73 m ²)	73.5 ± 29.0	76.0 ± 24.5	0.38	77.5 ± 22.1	72.9 ± 20.1	0.05
eGFR _{creat+cysC} (ml/min/1.73 m ²)	73.9 ± 30.8	74.0 ± 25.7	0.97	78.6 ± 24.6	74.7 ± 22.8	0.14
Urine alb:creat (mg/g)	33 (10-139)	19 (8-87)	0.36	12 (7-22)	9 (5-19)	<0.01

Data are presented as mean ± standard deviation for continuous measures, % frequency of reference level for discrete measures and median (first quartile-third quartile) for urine alb:creat (mg/g). Analyses to generate p-values include t-tests, χ^2 tests and Wilcoxon rank-sum tests where appropriate.

Table 2. Baseline covariate effects on $eGFR_{\text{creat+cysC}}$ using linear mixed effects model parameter estimates, 95% confidence intervals and p-values

Effect	Estimate (β_{Basic})	95% CI	p-value
Risk group (high vs. low)	1.65	(-1.32, 4.62)	0.277
Year	-0.90	(-1.60, -0.21)	0.012
Risk group by year interaction	-1.38	(-2.18, -0.58)	<0.001
Diabetes duration	0.00	(-0.12, 0.12)	0.955
$eGFR_{\text{creat+cysC}}$	0.76	(0.71, 0.80)	<0.001
Urine alb:creat ratio	-2.94	(-5.04, -0.84)	0.008
Systolic BP	-0.05	(-0.11, 0.02)	0.147
Diastolic BP	0.05	(-0.06, 0.16)	0.371
HbA1c	-0.11	(-0.85, 0.63)	0.774