

SUPPLEMENTAL MATERIAL

Supplemental Table 1A: Baseline characteristics of participants stratified by median CD34+ count

Characteristics	CD34+		p-value
	Below Median	Above Median	
Estimated GFR (mL/min/1.73m ²)	66.1 (26.3)	69.9 (27.0)	<0.001
Renal Insufficiency	243 (38.0%)	203 (31.7%)	0.019
Age (years)	67.8 (12.3)	63.2 (13.4)	<0.001
Male sex	367 (57.3%)	409 (63.8%)	0.019
Black race	141 (22.0%)	142 (22.2%)	1.000
Diabetes	257 (40.2%)	256 (40.0%)	1.000
Current smoking	30 (4.7%)	30 (4.7%)	1.000
Hypertension	586 (91.7%)	570 (89.2%)	0.153
Hypercholesterolemia	474 (74.1%)	477 (74.4%)	0.898
Body mass index (kg/m ²)	28.7 (6.3)	30.0 (6.4)	<0.001
Hemoglobin (g/dL)	12.8 (1.8)	13.3 (1.9)	<0.001
White blood cells (cells/microL)	6357 (1758)	7110 (1749)	<0.001

CAD history	546 (85.3%)	508 (79.3%)	0.005
HF history	233 (36.4%)	218 (34.0%)	0.381
PAD history	145 (22.7%)	101 (15.8%)	0.002
Ejection fraction (%)	53.7 (12.3)	52.3 (13.3)	0.150
High-sensitivity troponin I (pg/mL)	6.8 [3.5-15.1]	6.2 [3.3-15.4]	0.319
B-type natriuretic peptide (pg/mL)	114.6 [50.6-391.4]	95.8 [39.5-226.5]	0.001
ACEi/ARB use	322 (50.3%)	340 (53.0%)	0.342
Aspirin use	497 (77.7%)	509 (79.4%)	0.455
Beta blocker use	462 (72.2%)	475 (74.1%)	0.450
Clopidogrel use	249 (38.9%)	239 (37.3%)	0.565
Statin use	455 (71.1%)	440 (68.6%)	0.361
Cardiovascular death/MI	104 (16.6%)	71 (11.3%)	0.007
All-cause death	143 (22.9%)	91 (14.5%)	<0.001

Supplemental Table 1B: Baseline characteristics of participants stratified by median CD34+/CD133+ count

Characteristics	CD34+/CD133+	CD34+/CD133+	p-value
	Below Median	Above Median	
Estimated GFR (mL/min/1.73m ²)	67.3 (25.2)	68.7 (28.2)	0.109
Renal Insufficiency	226 (35.3%)	220 (34.3%)	0.725
Age (years)	67.9 (12.3)	63.1 (13.3)	< 0.001
Male sex	366 (57.2%)	410 (64.0%)	0.014
Black race	129 (20.2%)	154 (24.0%)	0.106
Diabetes	243 (38.0%)	270 (42.2%)	0.138
Current smoking	31 (4.8%)	29 (4.5%)	0.793
Hypertension	582 (91.1%)	574 (89.8%)	0.505
Hypercholesterolemia	470 (73.4%)	481 (75.0%)	0.523
Body mass index (kg/m ²)	28.5 (6.2)	30.2 (6.5)	< 0.001
Hemoglobin (g/dL)	12.9 (1.8)	13.2 (1.9)	0.003
White blood cells (cells/microL)	6373 (1735)	7094 (1778)	< 0.001
CAD history	543 (84.8%)	511 (79.7%)	0.019

HF history	241 (37.7%)	210 (32.8%)	0.070
PAD history	134 (20.9%)	112 (17.5%)	0.119
Ejection fraction (%)	53.4 (12.7)	52.6 (12.9)	0.210
High-sensitivity troponin I (pg/mL)	6.6 [3.3-14.6]	6.4 [3.5-15.8]	0.842
B-type natriuretic peptide (pg/mL)	110.8 [46.7-360.0]	98.2 [41.0-237.0]	0.043
ACEi/ARB use	314 (49.1%)	348 (54.3%)	0.065
Aspirin use	493 (77.0%)	513 (80.0%)	0.197
Beta blocker use	457 (71.4%)	480 (74.9%)	0.116
Clopidogrel use	241 (37.7%)	247 (38.5%)	0.774
Statin use	444 (69.4%)	451 (70.4%)	0.715
Cardiovascular death/MI	101 (16.2%)	74 (11.8%)	0.028
All-cause death	139 (22.2%)	95 (15.1%)	0.001

Supplemental Table 1C: Baseline characteristics of participants stratified by median CD34+/CXCR4+ count

Characteristics	CD34+/CXCR4+	CD34+/CXCR4+	p-value
	Below Median	Above Median	
Estimated GFR (mL/min/1.73m ²)	66.5 (26.2)	69.5 (27.2)	0.018
Renal Insufficiency	236 (36.9%)	210 (32.8%)	0.128
Age (years)	67.1 (12.4)	63.9 (13.5)	<0.001
Male sex	354 (55.3%)	422 (65.8%)	<0.001
Black race	133 (20.8%)	150 (23.4%)	0.281
Diabetes	266 (41.6%)	247 (38.6%)	0.305
Current smoking	31 (4.8%)	29 (4.5%)	0.793
Hypertension	583 (91.2%)	573 (89.7%)	0.392
Hypercholesterolemia	466 (72.8%)	485 (75.7%)	0.251
Body mass index (kg/m ²)	28.1 (6.3)	29.8 (6.4)	0.003
Hemoglobin (g/dL)	12.7 (1.8)	13.4 (1.8)	<0.001
White blood cells (cells/microL)	6458 (1831)	7010 (1711)	<0.001
CAD history	536 (83.8%)	518 (80.8%)	0.188

HF history	245 (38.3%)	206 (32.1%)	0.023
PAD history	142 (22.2%)	104 (16.2%)	0.007
Ejection fraction (%)	53.4 (12.3)	52.5 (13.3)	0.491
High-sensitivity troponin I (pg/mL)	6.7 [3.5-15.3]	6.4 [3.3-15.4]	0.423
B-type natriuretic peptide (pg/mL)	112.1 [48.1-360.0]	96.7 [39.4-225.5]	0.006
ACEi/ARB use	324 (50.6%)	338 (52.7%)	0.468
Aspirin use	503 (78.6%)	503 (78.6%)	1.000
Beta blocker use	466 (72.8%)	471 (73.5%)	0.801
Clopidogrel use	250 (39.1%)	238 (37.1%)	0.490
Statin use	452 (70.6%)	443 (69.1%)	0.584
Cardiovascular death/MI	107 (17.1%)	68 (10.8%)	0.001
All-cause death	141 (22.5%)	93 (14.8%)	<0.001

Supplemental Table 1D: Baseline characteristics of participants stratified by median CD34+/VEGF2R+ count

Characteristics	CD34+/VEGF2R+	CD34+/VEGF2R+	p-value
	Below Median	Above Median	
Estimated GFR (mL/min/1.73m ²)	66.8 (26.2)	69.2 (27.2)	0.049
Renal Insufficiency	237 (37.4%)	209 (32.3%)	0.061
Age (years)	66.7 (12.4)	64.3 (13.6)	0.006
Male sex	361 (56.9%)	415 (64.1%)	0.009
Black race	138 (21.8%)	145 (22.4%)	0.788
Diabetes	282 (44.5%)	231 (35.8%)	0.002
Current smoking	31 (4.9%)	29 (4.5%)	0.792
Hypertension	562 (88.9%)	594 (92.0%)	0.071
Hypercholesterolemia	470 (74.1%)	481 (74.3%)	0.949
Body mass index (kg/m ²)	29.5 (6.6)	29.3 (6.2)	0.808
Hemoglobin (g/dL)	12.8 (1.7)	13.3 (1.8)	<0.001
White blood cells (cells/microL)	6664 (1820)	6803 (1765)	0.146
CAD history	559 (88.2%)	495 (76.5%)	<0.001

HF history	243 (38.3%)	208 (32.1%)	0.023
PAD history	162 (25.6%)	84 (13.0%)	<0.001
Ejection fraction (%)	53.6 (12.1)	52.4 (13.5)	0.434
High-sensitivity troponin I (pg/mL)	6.7 [3.6-14.3]	6.3 [3.2-16.0]	0.563
B-type natriuretic peptide (pg/mL)	105.5 [46.6-283.3]	101.4 [40.8-263.9]	0.393
ACEi/ARB use	368 (58.0%)	294 (45.4%)	<0.001
Aspirin use	533 (84.1%)	473 (73.1%)	<0.001
Beta blocker use	497 (78.4%)	440 (68.0%)	<0.001
Clopidogrel use	268 (42.3%)	220 (34.0%)	0.003
Statin use	484 (76.3%)	411 (63.5%)	<0.001
Cardiovascular death/MI	92 (14.8%)	83 (13.1%)	0.415
All-cause death	124 (20.0%)	110 (17.4%)	0.246

Supplemental Table 2: Predictors of circulating progenitor cell counts in the overall cohort

	CD34+		CD34+/CD133+		CD34+/CXCR4+		CD34+/VEGF2R+	
	Beta (95% CI)	p-value	Beta (95% CI)	p-value	Beta (95% CI)	p-value	Beta (95% CI)	p-value
eGFR (per mL/min/1.73m ²)	0.003 (0.001, 0.005)	0.003	0.003 (0.001, 0.006)	0.010	0.003 (0.0001, 0.005)	0.029	0.004 (-0.004, 0.011)	0.343
Age (per year)	-0.015 (-0.019, -0.011)	<0.001	-0.020 (-0.024, 0.015)	<0.001	-0.013 (-0.018, -0.008)	<0.001	-0.026 (-0.041, -0.011)	0.001
Male sex	0.178 (0.067, 0.288)	0.002	0.160 (0.026, 0.293)	0.019	0.199 (0.069, 0.330)	0.003	0.478 (0.082, 0.875)	0.018
Race	0.040 (-0.091, 0.170)	0.554	0.166 (0.009, 0.323)	0.039	0.118 (-0.036, 0.272)	0.134	0.259 (-0.209, 0.728)	0.278
Diabetes	0.001 (-0.110, 0.111)	0.992	0.057 (-0.076, 0.190)	0.402	-0.050 (-0.181, 0.081)	0.454	-0.571 (-0.996, -0.176)	0.005
Current smoking	-0.076 (-0.332, 0.180)	0.561	0.029 (-0.279, 0.338)	0.852	-0.146 (-0.448, 0.156)	0.344	-0.098 (-1.016, 0.819)	0.833
Hypertension	0.148	0.117	-0.184	0.104	-0.159	0.152	-0.053	0.875

	(0.332, 0.037)		(-0.406, 0.038)		(-0.377, 0.058)		(-0.713, 0.608)	
Hypercholesterolemia	0.019 (-0.105, 0.143)	0.768	0.024 (-0.126, 0.173)	0.757	0.035 (-0.112, 0.181)	0.641	-0.010 (-0.454, 0.434)	0.965
BMI (per kg/m ²)	0.020 (0.011, 0.028)	<0.001	0.026 (0.016, 0.036)	<0.001	0.013 (0.003, 0.023)	0.010	-0.023 (-0.053, 0.007)	0.139
CAD history	-0.123 (-0.265, 0.020)	0.091	-0.145 (-0.317, 0.027)	0.097	-0.187 (-0.354, -0.019)	0.030	-1.032 (-1.540, -0.525)	<0.001
HF history	-0.153 (-0.226, -0.039)	0.008	-0.111 (-0.247, 0.026)	0.113	-0.182 (-0.316, -0.049)	0.008	-0.170 (-0.577, 0.237)	0.413
PAD history	-0.234 (-0.371, 0.096)	0.001	-0.200 (-0.366, -0.034)	0.018	-0.290 (-0.452, 0.128)	<0.001	-1.137 (-1.627, -0.647)	<0.001
Hemoglobin (per g/dL)	0.102 (0.073, 0.131)	<0.001	0.091 (0.056, 0.126)	<0.001	0.114 (0.080, 0.147)	<0.001	0.176 (0.072, 0.280)	0.001
WBC (per 1000 cells/microL)	0.145 (0.116, 0.175)	<0.001	0.144 (0.109, 0.180)	<0.001	0.110 (0.074, 0.145)	<0.001	0.052 (-0.056, 0.890)	0.346
Ejection Fraction (per 1%)	-0.001	0.551	-0.003	0.296	-0.0004	0.870	-0.012	0.139

	(-0.006, 0.003)		(-0.008, 0.002)		(-0.006, 0.005)		(-0.027, 0.004)	
hsTnI (per 1-unit)	-0.065 (-0.109, -0.022)	0.003	-0.046 (-0.099, 0.006)	0.085	-0.077 (-0.128, -0.025)	0.004	0.020 (-0.136, 0.177)	0.799
BNP (per 1-unit)	-0.106 (-0.147, -0.066)	<0.001	-0.103 (-0.153, -0.053)	<0.001	-0.102 (-0.151, -0.052)	<0.001	-0.067 (-0.219, 0.084)	0.382
ACEi/ARB use	0.084 (-0.024, 0.193)	0.129	0.096 (-0.035, 0.227)	0.149	-0.056 (-0.184, 0.072)	0.389	-0.516 (-0.904, -0.128)	0.009
Aspirin use	0.053 (-0.079, 0.185)	0.432	0.102 (-0.057, 0.261)	0.208	-0.003 (-0.159, 0.153)	0.972	-0.852 (-0.1323, -0.381)	<0.001
Beta blocker use	0.044 (-0.079, 0.166)	0.484	0.147 (-0.0001, 0.295)	0.050	-0.021 (-0.165, 0.124)	0.779	-0.736 (-1.172, -0.299)	0.001
Clopidogrel use	-0.026 (-0.138, 0.085)	0.643	-0.062 (-0.197, 0.072)	0.364	-0.084 (-0.215, 0.048)	0.213	-0.543 (-0.942, -0.144)	0.008
Statin use	-0.001 (-0.120, 0.118)	0.989	0.033 (-0.110, 0.176)	0.652	-0.114 (-0.254, 0.026)	0.110	-0.858 (-1.280, -0.436)	<0.001

Dependent variables are log-transformed PC counts. hsTnI and BNP are non-normally distributed and were log-transformed during analysis. eGFR=estimated glomerular filtration rate, CAD=coronary artery disease, HF=heart failure, PAD=peripheral artery disease,

ACEi=angiotensin converting enzyme inhibitor, ARB=angiotensin-II receptor blocker, hsTnI=high-sensitivity troponin I, BNP=B-type natriuretic peptide, CD=cluster of differentiation, VEGF2R=vascular endothelial growth factor receptor 2, CXCR4=C-X-C chemokine receptor type 4.

Supplemental Table 3: Association of dialysis with circulating progenitor cell counts

	CD34+		CD34+/CD133+		CD34+/CXCR4+		CD34+/VEGF2R+	
	Beta (95% CI)	p-value	Beta (95% CI)	p-value	Beta (95% CI)	p-value	Beta (95% CI)	p-value
Model 1								
Overall	-10.2% (-23.2%, 5.0%)	0.176	-0.9% (-17.9%, 19.5%)	0.925	-7.3% (-23.0%, 11.7%)	0.427	-5.0% (-46.1%, 67.5%)	0.859
Age <70 years	-4.9% (-19.4%, 12.3%)	0.556	3.0% (-14.5%, 24.1%)	0.752	1.7% (-16.7%, 24.1%)	0.870	0.9% (-43.7%, 70.8%)	0.997
Age ≥70 years	-56.4% (-75.3%, -23.2%)	0.004	-38.3% (-71.2%, 31.9%)	0.213	-70.5% (-84.7%, -43.3%)	<0.001	-66.1% (-96.1%, 196.6%)	0.329
Model 2								
Overall	-3.9% (-18.1%, 12.9%)	0.629	2.9% (-15.1%, 25.2%)	0.776	-1.2% (-18.7%, 20.1%)	0.901	10.8% (-39.4%, 102.8%)	0.738
Age <70 years	1.1% (-15.0%, 20.3%)	0.903	5.3% (-13.5%, 28.3%)	0.605	7.6% (-13.3%, 33.5%)	0.505	16.9% (-38.2%, 120.9%)	0.632

Age \geq 70 years	-49.5% (-70.8%, -12.8%) 0.014	-29.5% (-66.7%, 49.2%) 0.361	-66.5% (-82.2%, -36.8%) 0.001	-59.4% (-95.1%, 238.1%) 0.405
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Dependent variables are log-transformed CPC counts. Model 1 adjusted for continuous age. Model 2 adjusted for continuous age, sex, race, diabetes, current smoking, hypertension, hypercholesterolemia, body mass index, hemoglobin, white blood cell count, CAD history, HF history, PAD history, and cardiovascular medication use (ACEi/ARB, aspirin, beta blocker, clopidogrel, and statin). CI=confidence interval, other abbreviations are same as Table 1.

Supplemental Table 4: Association of renal insufficiency with adverse outcomes

	Cardiovascular Death/MI		All-Cause Mortality	
	Hazard Ratio (95% CI)	p-value	Hazard Ratio (95% CI)	p-value
Multivariable Model*	1.48 (1.08-2.03)	0.014	1.39 (1.06-1.83)	0.019
Model 1				
Renal Insufficiency	1.45 (1.06-1.99)	0.021	1.35 (1.02-1.79)	0.033
CD34+	1.21 (1.05-1.39)	0.010	1.19 (1.05-1.35)	0.006
Model 2				
Renal Insufficiency	1.46 (1.06-2.00)	0.020	1.37 (1.04-1.81)	0.025
CD34+/CD133+	1.18 (1.07-1.31)	0.001	1.15 (1.04-1.26)	0.004
Model 3				
Renal Insufficiency	1.45 (1.06-1.99)	0.022	1.35 (1.02-1.79)	0.034
CD34+/CXCR4+	1.25 (1.10-1.42)	0.001	1.20 (1.07-1.36)	0.002
Model 4				
Renal Insufficiency	1.49 (1.09-2.04)	0.013	1.40 (1.06-1.84)	0.017
CD34+/VEGF2R+	1.02 (0.98-1.06)	0.420	1.04 (0.99-1.08)	0.069

Multivariable Cox models included age, eGFR, sex, race, diabetes, current smoking, hypertension, hypercholesterolemia, body mass index, hemoglobin, white blood cell count, CAD history, HF history, PAD history, ACEi/ARB use, aspirin use, beta blocker use, clopidogrel use, and statin use as covariates. Stepwise Cox regression using backward elimination with model removal p-threshold=0.10 was used to analyze all covariates.

Supplemental Table 5: Independent determinants of adverse outcomes in patients with renal insufficiency

Cardiovascular Death/MI		All-Cause Mortality	
Hazard Ratio (95% CI), p-value		Hazard Ratio (95% CI), p-value	
Age (per year)	1.05 (1.03-1.07), p<0.001	Age (per year)	1.02 (1.01-1.04), p=0.007
eGFR (per mL/min/1.73m ²)	0.98 (0.96-0.99), p=0.001	eGFR (per mL/min/1.73m ²)	0.98 (0.97-0.996), p=0.011
Current Smoking	2.53 (1.07-6.00), p=0.034	Race	0.54 (0.32-0.90), p=0.018
HF history	1.90 (1.22-2.95), p=0.005	HF history	2.02 (1.38-2.95), p<0.001
Hemoglobin (per 1-g/dl)	0.85 (0.75-0.97), p=0.014	Hemoglobin (per 1-g/dl)	0.83 (0.74-0.92), p=0.001
		ACEi/ARB use	0.52 (0.36-0.76), p=0.001

Renal insufficiency is the exposure variable of interest. *Model adjusted for age, sex, race, diabetes, current smoking, hypertension, hypercholesterolemia, body mass index, hemoglobin, white blood cell count, CAD history, HF history, PAD history, ACEi/ARB use, aspirin use, beta blocker use, clopidogrel use, and statin use as covariates. Stepwise Cox regression using backward elimination with model removal p-threshold=0.10 was used to analyze all covariates. Log-transformed CPC counts were added sequentially to the multivariable model.

Supplemental Table 6: Association of CPC counts with CV death/MI events using Fine and Gray competing risk regression models

	CD34+		CD34+/CD133+		CD34+/CXCR4+		CD34+/VEGF2R+	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
CV death/MI								
Univariable	1.44 (1.24, 1.67)	<0.001	1.27 (1.17, 1.38)	<0.001	1.37 (1.17, 1.60)	<0.001	0.99 (0.94, 1.06)	0.902
Multivariable	1.32 (1.13, 1.54)	<0.001	1.29 (1.19, 1.40)	<0.001	1.31 (1.12, 1.54)	<0.001	0.97 (0.91, 1.05)	0.484

Multivariable Fine and Gray competing risk regression models included log-transformed CPC count, eGFR, age, sex, race, diabetes, current smoking, hypertension, hypercholesterolemia, body mass index, hemoglobin, white blood cell count, CAD history, HF history, PAD history, ACEi/ARB use, aspirin use, beta blocker use, clopidogrel use, and statin use as covariates. Stepwise regression using backward elimination with model removal p-threshold=0.10 was used to analyze all covariates. CPC=circulating progenitor cell, HR=hazard ratio, CI=confidence interval, CV=cardiovascular, MI=myocardial infarction.

Supplemental Table 7: Independent association of CPC counts with adverse outcomes in patients with renal insufficiency

	CD34+		CD34+/CD133+		CD34+/CXCR4+		CD34+/VEGF2R+	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
CV death/MI								
Multivariable + hsTnI	1.24 (1.01-1.51)	0.037	1.26 (1.13-1.41)	<0.001	1.25 (1.03-1.52)	0.026	0.99 (0.93, 1.07)	0.870
Multivariable + BNP	1.29 (1.04-1.60)	0.020	1.28 (1.14-1.44)	<0.001	1.30 (1.06-1.60)	0.012	1.02 (0.95-1.09)	0.638
All-cause mortality								
Multivariable + hsTnI	1.12 (0.93-1.34)	0.222	1.18 (1.05-1.32)	0.006	1.09 (0.91-1.31)	0.368	0.97 (0.91-1.03)	0.367
Multivariable + BNP	1.16 (0.67-1.40)	0.106	1.18 (1.05-1.32)	0.005	1.13 (0.94-1.36)	0.207	0.98 (0.92-1.05)	0.609

Multivariable Cox models included log-transformed CPC count, eGFR, age, sex, race, diabetes, current smoking, hypertension, hypercholesterolemia, body mass index, hemoglobin, white blood cell count, CAD history, HF history, PAD history, ACEi/ARB use, aspirin use, beta blocker use, clopidogrel use, and statin use as covariates. Stepwise Cox regression using backward elimination with model removal p-threshold=0.10 was used to analyze all covariates. Log-transformed hsTnI and BNP were added to multivariable models.

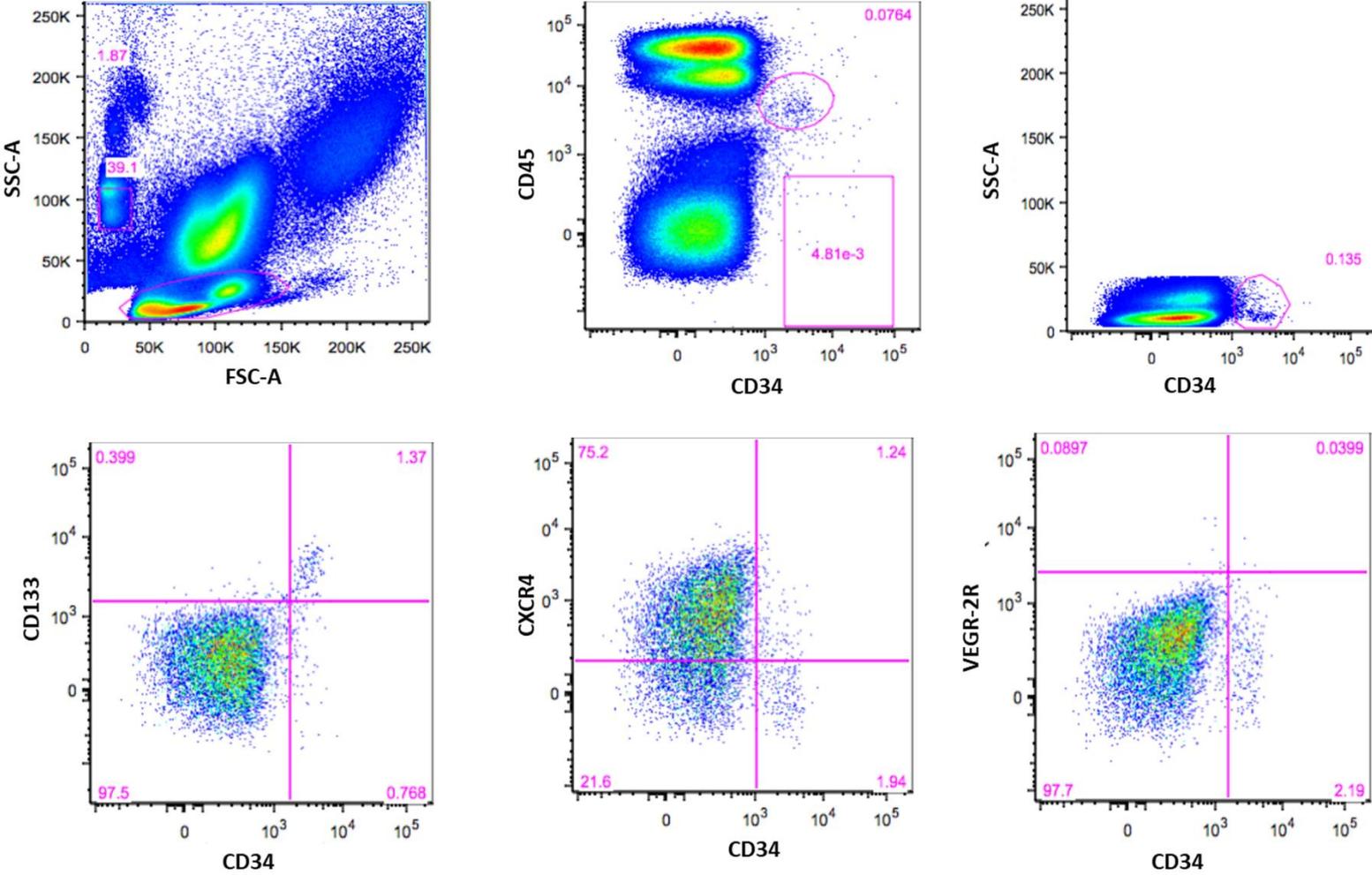
Supplemental Table 8: Association of CPC count and RI categories CV death/MI events using Fine and Gray competing risk regression models

CV death/MI		
	HR (95% CI)	p-value
CD34+		
No Renal Insufficiency	Referent	
Renal Insufficiency and Count ≥ 1507 cells/mL	1.12 (0.74-1.72)	0.586
Renal Insufficiency and Count < 1507 cells/mL	1.67 (1.18-2.37)	0.004
CD34+/CD133+		
No Renal Insufficiency	Referent	
Renal Insufficiency and Count ≥ 741 cells/mL	1.08 (0.71-1.64)	0.791
Renal Insufficiency and Count < 741 cells/mL	1.72 (1.21-2.44)	0.003
CD34+/CXCR4+		
No Renal Insufficiency	Referent	
Renal Insufficiency and Count ≥ 762 cells/mL	1.13 (0.75-1.70)	0.547

Renal Insufficiency and Count <762 cells/mL	1.68 (1.17-2.40)	0.005
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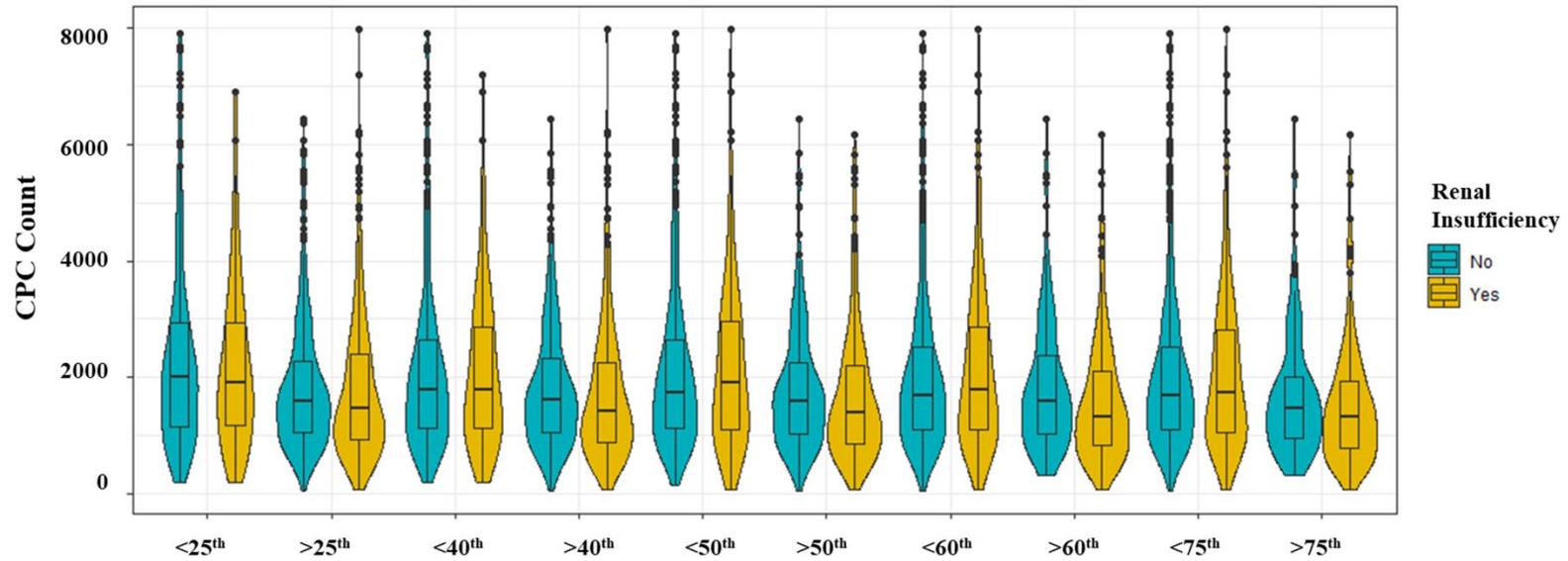
Multivariable Fine and Gray competing risk regression models include renal insufficiency and CPC count category, eGFR, age, sex, race, diabetes, current smoking, hypertension, hypercholesterolemia, body mass index, hemoglobin, white blood cell count, CAD history, HF history, PAD history, ACEi/ARB use, aspirin use, beta blocker use, clopidogrel use, and statin use as covariates. Stepwise regression using backward elimination with model removal p-threshold=0.10 was used to analyze all covariates. HR=hazard ratio, CI=confidence interval, CV=cardiovascular, MI=myocardial infarction, rest of the abbreviations are the same as Table 1.

Supplemental Figure 1: Fluorescence-Activated Cell Sorting analysis



Supplemental Figure 2: Association of renal insufficiency with circulating progenitor cell counts across age percentiles (25th percentile=57.2 years, 40th percentile=62.7 years, 50th percentile=65.9 years, 60th percentile=69.0 years, 75th percentile=75.2 years)

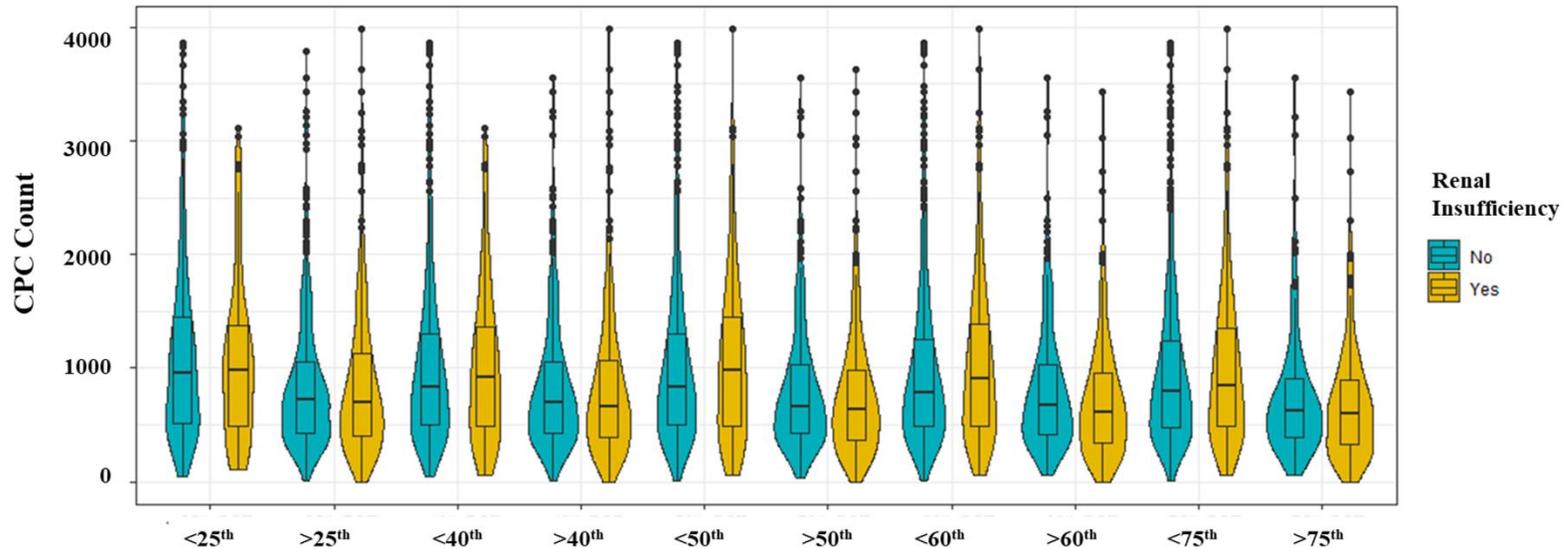
A. Renal Insufficiency and CD34+ Counts



Participant N	No RI 242 RI 77	No RI 593 RI 369	No RI 382 RI 130	No RI 453 RI 316	No RI 472 RI 168	No RI 363 RI 278	No RI 561 RI 208	No RI 274 RI 238	No RI 691 RI 270	No RI 144 RI 176
No RI Count	2022 [1173,3042]	1601 [1048,2295]	1783 [1117,2693]	1616 [1048,2352]	1753 [1119,2696]	1601 [1028,2262]	1705 [1106,2630]	1610 [1043,2303]	1712 [1114,2566]	1445 [945,2014]
RI Count	1902 [1170,2946]	1461 [937,2429]	1777 [1129,2899]	1430 [885,2250]	1933 [1104,2972]	1397 [861,2199]	1802 [1085,2847]	1344 [516,2149]	1737 [1052,2839]	1313 [760,1948]
P-value	0.374	0.124	0.951	0.035	0.640	0.018	0.524	0.003	0.794	0.053

Supplemental Figure 2: Association of renal insufficiency with circulating progenitor cell counts across age percentiles (25th percentile=57.2 years, 40th percentile=62.7 years, 50th percentile=65.9 years, 60th percentile=69.0 years, 75th percentile=75.2 years)

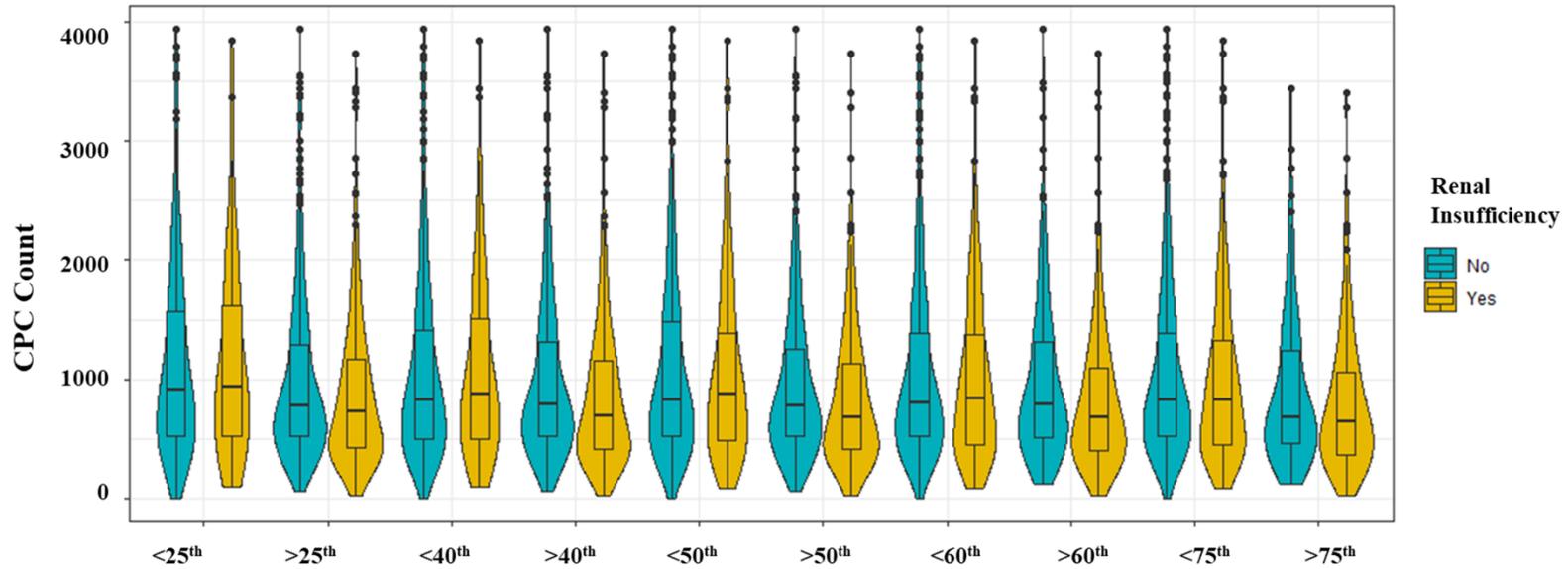
B. Renal Insufficiency and CD34+/CD133+ Counts



Participant N	No RI 242 RI 77	No RI 593 RI 369	No RI 382 RI 130	No RI 453 RI 316	No RI 472 RI 168	No RI 363 RI 278	No RI 561 RI 208	No RI 274 RI 238	No RI 691 RI 270	No RI 144 RI 176
No RI Count	998 [514,1531]	722 [431,1065]	849 [500,1378]	702 [429,1065]	845 [500,1376]	669 [423,1030]	802 [484,1318]	668 [424,1037]	797 [484,1287]	621 [376,911]
RI Count	972 [462,1371]	703 [402,1142]	823 [492,1377]	659 [397,1093]	979 [493,1507]	637 [372,992]	923 [506,1387]	615 [342,970]	856 [487,1350]	647 [369,1070]
P-value	0.297	0.570	0.990	0.318	0.523	0.250	0.285	0.059	0.494	0.328

Supplemental Figure 2: Association of renal insufficiency with circulating progenitor cell counts across age percentiles (25th percentile=57.2 years, 40th percentile=62.7 years, 50th percentile=65.9 years, 60th percentile=69.0 years, 75th percentile=75.2 years)

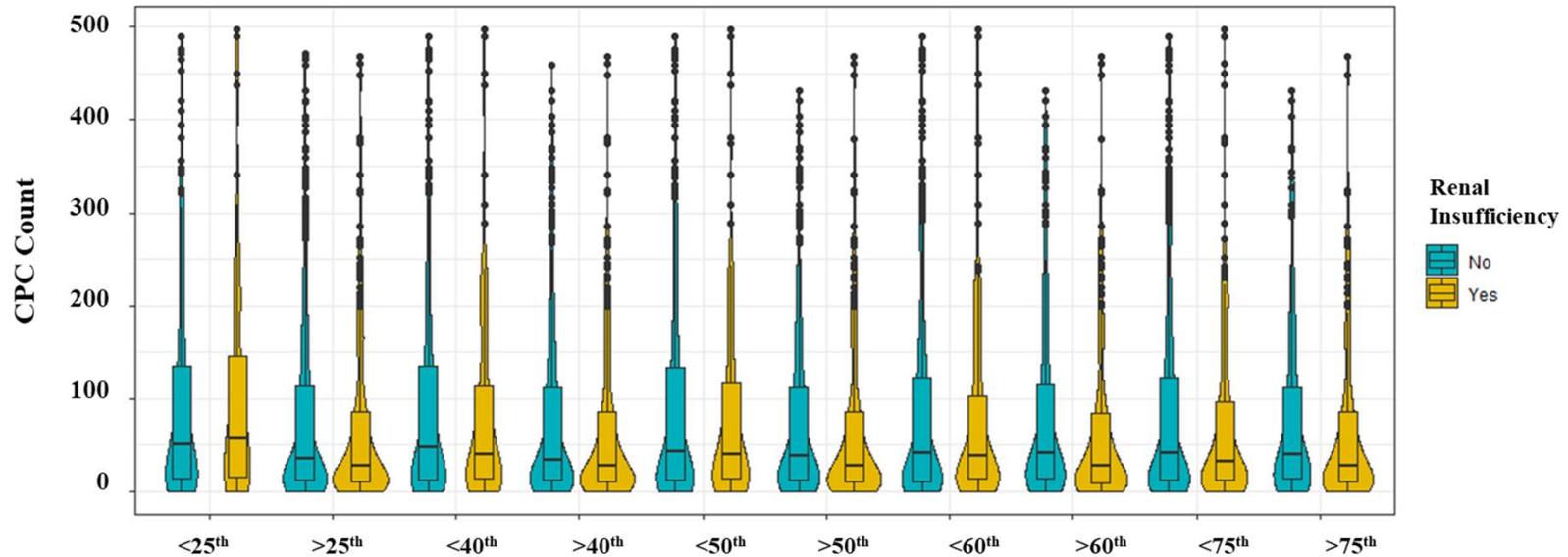
C. Renal Insufficiency and CD34+/CXCR4+ Counts



Participant N	No RI 242 RI 77	No RI 593 RI 369	No RI 382 RI 130	No RI 453 RI 316	No RI 472 RI 168	No RI 363 RI 278	No RI 561 RI 208	No RI 274 RI 238	No RI 691 RI 270	No RI 144 RI 176
No RI Count	940 [533,1654]	784 [515,1312]	845 [511,1516]	786 [521,1326]	842 [520,1520]	785 [515,1281]	820 [520,1488]	797 [515,1305]	835 [528,1457]	699 [459,1450]
RI Count	947 [517,1690]	731 [424,1188]	878 [500,1615]	712 [410,1176]	880 [490,1551]	688 [411,1145]	872 [469,1423]	675 [411,1132]	847 [452,1366]	599 [328,891]
P-value	0.763	0.028	0.849	0.007	0.976	0.011	0.888	0.007	0.381	0.181

Supplemental Figure 2: Association of renal insufficiency with circulating progenitor cell counts across age percentiles (25th percentile=57.2 years, 40th percentile=62.7 years, 50th percentile=65.9 years, 60th percentile=69.0 years, 75th percentile=75.2 years)

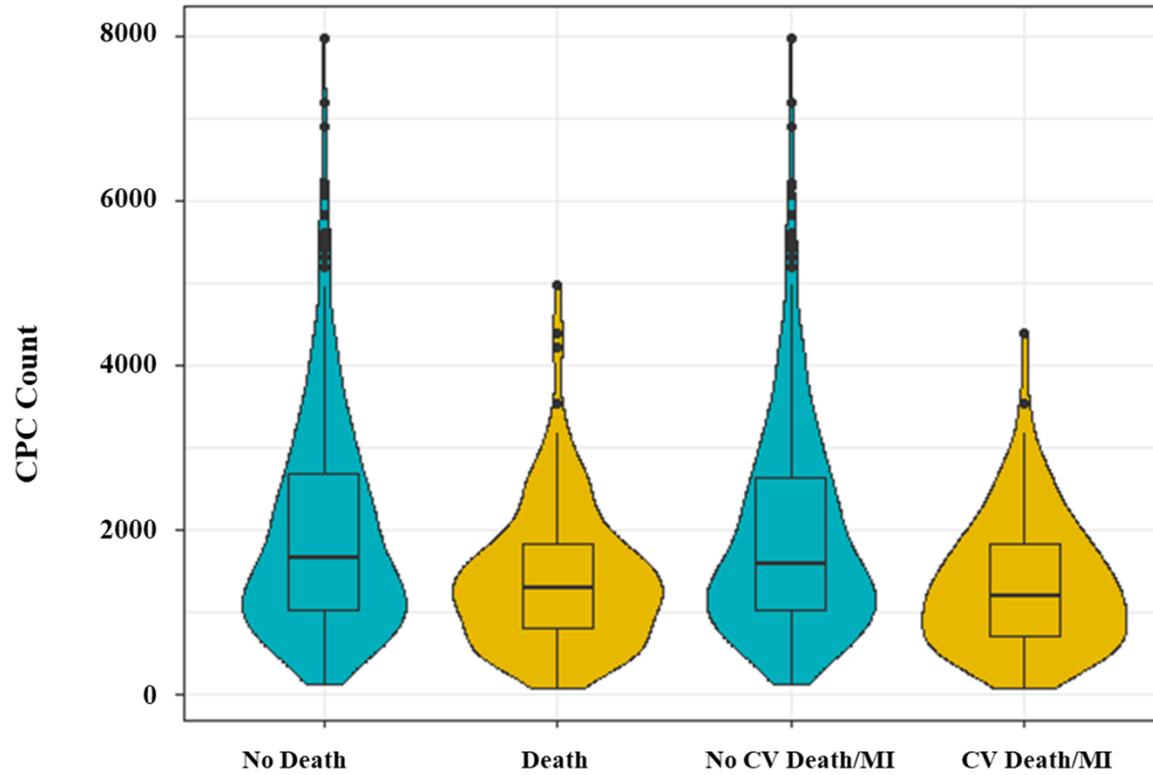
D. Renal Insufficiency and CD34+/VEGF2R+ Counts



Participant N	No RI 242 RI 77	No RI 593 RI 369	No RI 382 RI 130	No RI 453 RI 316	No RI 472 RI 168	No RI 363 RI 278	No RI 561 RI 208	No RI 274 RI 238	No RI 691 RI 270	No RI 144 RI 176
No RI Count	58 [14,166]	41 [12,140]	52 [13,155]	41 [12,140]	49 [12,155]	41 [13,130]	48 [12,146]	42 [13,148]	47 [12,146]	43 [13,145]
RI Count	74 [18,213]	31 [11,93]	45 [13,142]	32 [11,101]	45 [14,137]	30 [11,93]	41 [14,127]	29 [9,98]	40 [13,129]	30 [11,92]
P-value	0.524	0.051	0.618	0.104	0.862	0.039	0.756	0.033	0.407	0.079

Supplemental Figure 3: Circulating progenitor cell counts among participants with and without cardiovascular events

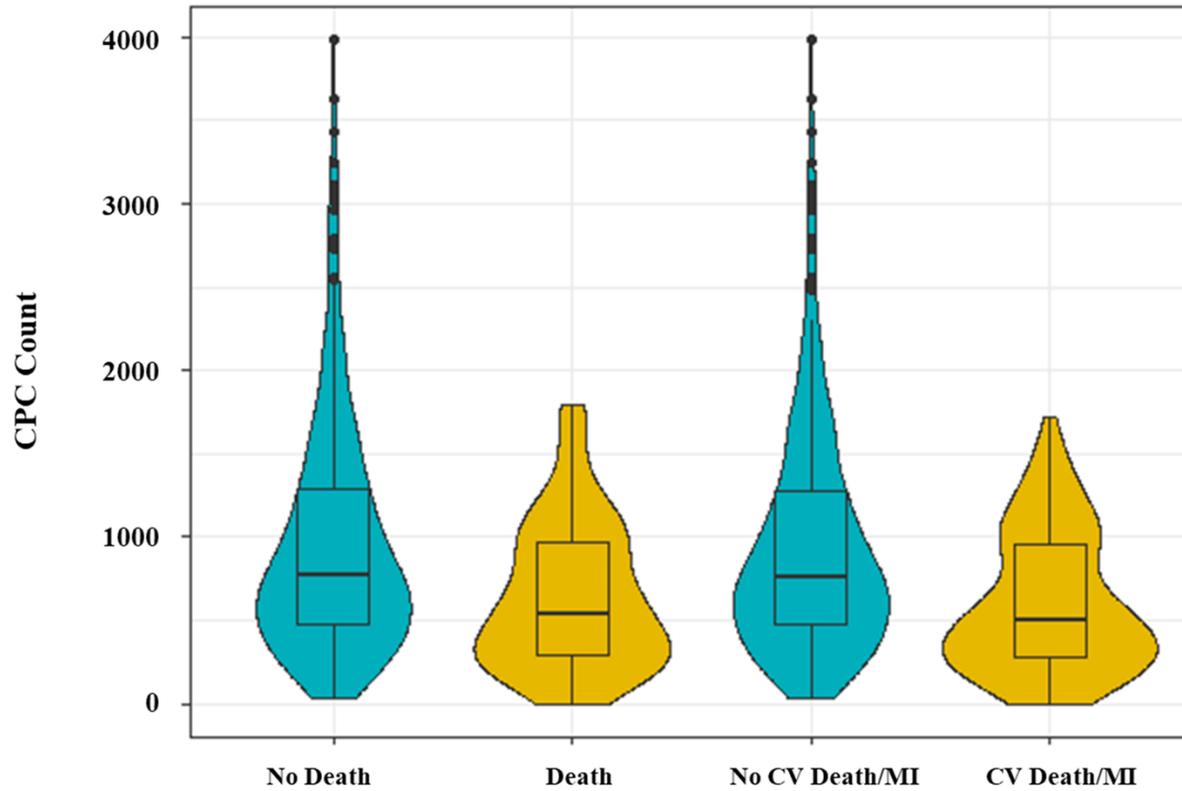
A. CD34+ Counts



N	318	118	347	89
Counts	1639 [1014,2679]	1280 [784,1843]	1581 [1015,2649]	1184 [657,1819]
P-value	<0.001		<0.001	

Supplemental Figure 3: Circulating progenitor cell counts among participants with and without cardiovascular events

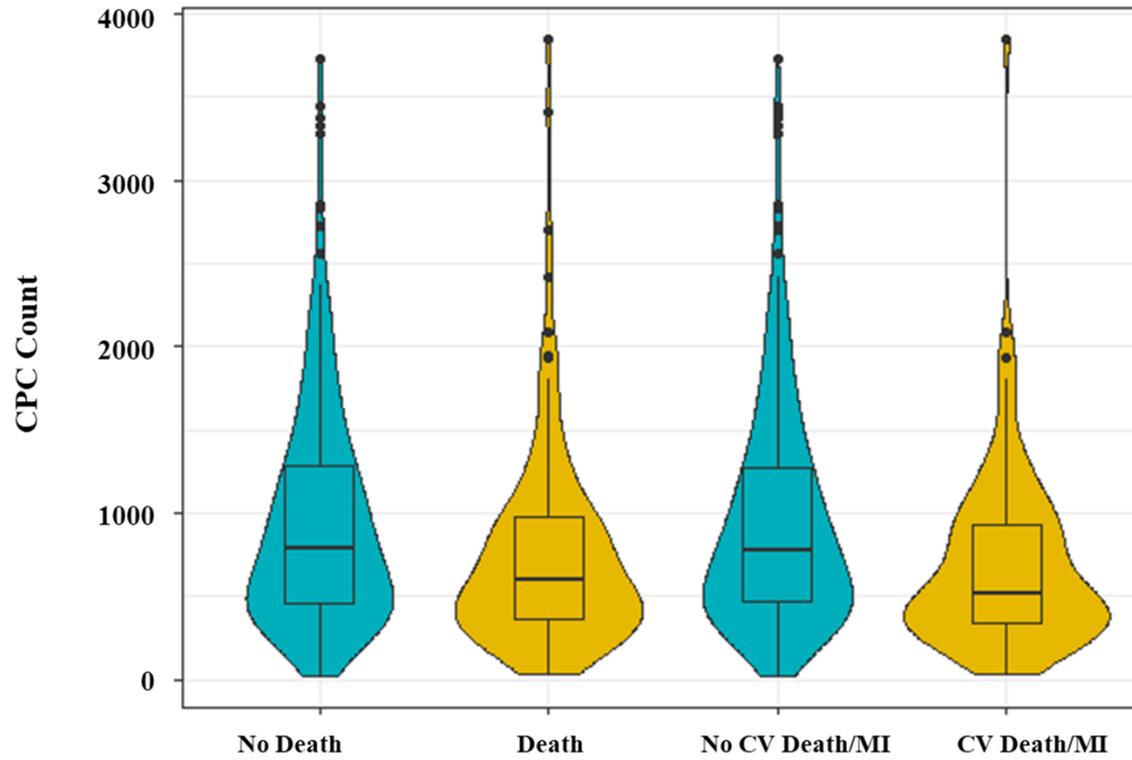
B. CD34+/CD133+ Counts



N	318	118	347	89
Counts	774 [471,1290]	542 [289,967]	765 [472,1283]	497 [271,963]
P-value	<0.001		<0.001	

Supplemental Figure 3: Circulating progenitor cell counts among participants with and without cardiovascular events

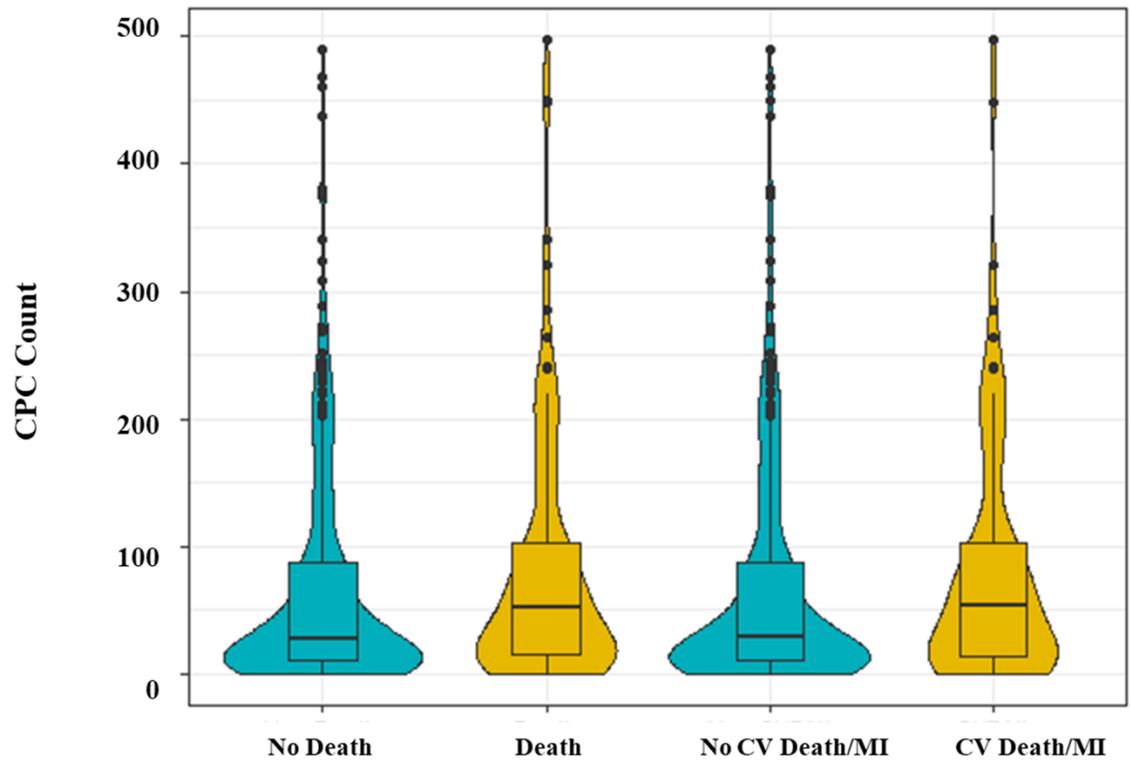
C. CD34+/CXCR4+ Counts



N	318	118	347	89
Counts	810 [465,1361]	599 [358,991]	794 [473,1352]	518 [336,949]
P-value	<0.001		<0.001	

Supplemental Figure 3: Circulating progenitor cell counts among participants with and without cardiovascular events

D. CD34+/VEGF2R+ Counts



N	318	118	347	89
Counts	33 [11,114]	53 [15,111]	34 [12,113]	56 [14,109]
P-value	0.160		0.318	