

**Supplemental Table 1. Baseline Characteristics by Categories of FGF23/FePi**

	Low FGF23 / Low FePi 240	Low FGF23 / High FePi 197	High FGF23 / High FePi 239	High FGF23 / Low FePi 196	P-value
Number					
Age (years) ± SD	66 ± 10	68 ± 10	69 ± 11	64 ± 11	<0.001
Sex n(%)					<0.001
Male	195 (81)	179 (91)	206 (86)	135 (69)	
Female	45 (19)	18 (9)	33 (14)	61 (31)	
Estrogen use (Women) n(%)	18 (40)	6 (33)	6 (18)	11 (18)	0.04
Race n(%)					<0.001
White	128 (53)	125 (63)	170 (71)	108 (55)	
Black	47 (20)	16 (8)	26 (11)	42 (21)	
Other	65 (27)	56 (28)	43 (18)	46 (23)	
Diabetes n(%)	58 (24)	47 (24)	59 (25)	63 (32)	0.18
SBP (mmHg) ± SD	133 ± 21	131 ± 21	134 ± 22	133 ± 20	0.44
BMI (kg/m <sup>2</sup> ) ± SD	28.1 ± 4.6	28.0 ± 4.7	28.2 ± 5.7	29.5 ± 6.4	0.02
Smoking n(%)	42 (18)	25 (13)	43 (18)	54 (28)	0.002
Total Cholesterol (mg/dL) ± SD	177 ± 41	172 ± 36	178 ± 46	182 ± 46	0.14
HDL Cholesterol (mg/dL) ± SD	47 ± 14	45 ± 12	45 ± 15	45 ± 15	0.27
CRP (mg/dL) median [IQR]	1.9 [0.7-3.5]	1.7 [0.6-3.5]	2.8 [1.1-6.5]	2.9 [1.2-6.0]	<0.001
eGFR (mL/min/1.73m <sup>2</sup> ) ± SD	81 ± 19	73 ± 18	59 ± 20	73 ± 25	<0.001
ACR (mg/g) median [IQR]	7.9 [4.5-13.8]	8.0 [4.9-15.1]	10.6 [5.6-27.5]	10.5 [6.1-20.2]	<0.001
PTH (pg/mL) median [IQR]	50 [39-64]	51 [42-69]	60 [42-82]	50 [39-74]	<0.001
Serum Phosphorus (mg/dL) ± SD	3.7 ± 0.5	3.4 ± 0.5	3.6 ± 0.6	3.9 ± 0.6	<0.001
Serum Calcium (mg/dL) ± SD	9.5 ± 0.5	9.5 ± 0.5	9.5 ± 0.6	9.6 ± 0.5	0.005
Urine Phosphorus (mg/dL) ± SD	38 ± 20	58 ± 25	53 ± 26	37 ± 21	<0.001
FePi (%) ± SD	11 ± 3	21 ± 5	25 ± 9	11 ± 3	<0.001
FGF23 (RU/mL) median [IQR]	27 [17-35]	29 [21-35]	72 [53-126]	65 [50-113]	<0.001