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| **Supplementary Table 1. Characteristics of patients according to tertiles of serum intact FGF23** |
|  | **Tertile 1** | **Tertile 2** | **Tertile 3** |  |
| Range, pg/ml | ≤21.5 | 22.5 to 100.9 | 104.3 to 4844.4 | **P-value** |
| Number of patients | 35 | 36 | 35 |  |
| **Demographics** |  |  |  |  |
| Age, mean ± SD | 57.7 ± 16.6 | 55.8 ± 14.5 | 57.0 ± 16.2 | 0.85 |
| Women, n (%) | 14 (40.0) | 15 (41.7) | 17 (48.6) | 0.78 |
| White race, n (%) | 30 (85.7) | 25 (69.4) | 19 (54.3) | 0.02 |
| BMI, kg/m2, mean ± SD | 28.0 ± 7.1 | 28.8 ± 10.0 | 27.7 ± 6.9 | 0.23 |
| **Baseline kidney function** |  |  |  |  |
| eGFR, ml/min/1.73m2, (median IQR) | 93.2 [79.9, 100.2] | 93.8 [82.9, 105.6] | 84.0 [64.8, 100.2] | 0.13 |
| SCr, mg/dl, (median IQR) | 0.9 [0.7, 1.0] | 0.8 [0.7, 1.0] | 0.9 [0.8, 1.1] | 0.10 |
| Dipstick proteinuria >30 mg/dl, n (%) | 5 (14.3) | 16 (44.4) | 26 (74.3) | <0.0001 |
| **Comorbidity** |  |  |  |  |
| Diabetes, n (%) | 10 (28.6) | 7 (19.4) | 10 (28.6) | 0.57 |
| Hypertension, n (%) | 17 (48.6) | 20 (55.6) | 19 (54.3) | 0.88 |
| Congestive heart failure, n (%) | 12 (34.3) | 8 (22.2) | 12 (34.3) | 0.40 |
| COPD, n (%) | 6 (17.1) | 4 (11.1) | 6 (17.1) | 0.75 |
| Liver disease, n (%) | 4 (11.1) | 10 (27.8) | 10 (28.6) | 0.16 |
| Anemia, n (%) | 19 (54.3) | 23 (63.9) | 33 (94.3) | 0.0002 |
| Cancer, n (%) | 15 (42.9) | 18 (51.4) | 13 (37.1) | 0.52 |
| Charlson Index, (median IQR) | 3 [2, 4] | 4 [2, 6] | 4 [2, 7] | 0.06 |
| **Critical illness parameters** |  |  |  |  |
| CFB 72 hours, liters, (median IQR) | 1.6 [-0.3, 3.8] | 2.9 [0.4, 6.4] | 3.5 [0.9, 6.3] | 0.24 |
| CFB ICU stay, liters, (median IQR) | 1.5 [-1.3, 3.8] | 2.5 [0.2, 6.8] | 4.6 [-1.1,11.3] | 0.21 |
| Pressor or inotrope, n (%) | 16 (45.7) | 17 (47.2) | 19 (54.3) | 0.78 |
| Mechanical ventilation, n (%) | 17 (48.6) | 16 (44.4) | 21 (60.0) | 0.41 |
| PRBC transfusion, n (%) | 11 (31.4) | 15 (41.7) | 22 (62.9) | 0.03 |
| Non-renal APACHE II score, (median IQR) | 13 [8, 20] | 13 [8.5, 19] | 19 [15, 23] | 0.005 |
| Non-renal SOFA score, (median IQR) | 6 [1, 8] | 5 [1, 9.5] | 6 [2, 9] | 0.78 |

APACHE II = Acute Physiology and Chronic Health Evaluation II (the points related to SCr were subtracted from the total score); BMI = body mass index; CFB = cumulative fluid balance; COPD = chronic obstructive pulmonary disease; eGFR = estimated glomerular filtration rate (CKD-EPI equation); PRBC = packed red blood cell; SCr = serum creatinine; SOFA = Sequential Organ Failure Assessment (the points related to SCr were subtracted from the total score)