**Supplementary Table.** Data means and 95% confidence lower and upper limits

|  |  |  |
| --- | --- | --- |
|  |  | Diet |
| Measures | Timepoint | A | B | C | D | E | F |
| Plasma P (mmol/L) | 0 | 1.19 (1.10, 1.29) | 1.20 (1.11, 1.29) | 1.20 (1.11, 1.29) | 1.20 (1.12, 1.30) | 1.19 (1.10, 1.29) | 1.19 (1.10, 1.28) |
| 60 | 1.26 (1.16, 1.36) | 1.25 (1.15, 1.35) | 1.25 (1.16, 1.35) | 1.16 (1.08, 1.26) | 1.10 (1.02, 1.19) | 1.07 (0.99, 1.15) |
| 120 | 1.66 (1.53, 1.79) | 1.53 (1.42, 1.65) | 1.50 (1.39, 1.62) | 1.47 (1.36, 1.58) | 1.28 (1.18, 1.38) | 1.16 (1.07, 1.25) |
| 180 | 1.80 (1.67, 1.95) | 1.51 (1.40, 1.63) | 1.40 (1.30, 1.52) | 1.54 (1.43, 1.66) | 1.21 (1.12, 1.31) | 1.06 (0.98, 1.14) |
| 240 | 1.56 (1.44, 1.68) | 1.17 (1.09, 1.27) | 1.13 (1.04, 1.22) | 1.34 (1.24, 1.44) | 1.03 (0.96, 1.12) | 0.95 (0.88, 1.03) |
| 300 | 1.23 (1.14, 1.33) | 1.00 (0.93, 1.08) | 0.99 (0.92, 1.07) | 1.14 (1.05, 1.23) | 1.01 (0.93, 1.08) | 0.99 (0.91, 1.06) |
| 360 | 1.15 (1.06, 1.24) | 1.04 (0.96, 1.12) | 1.07 (0.99, 1.16) | 1.15 (1.07, 1.24) | 1.11 (1.03, 1.20) | 1.17 (1.08, 1.26) |
| Plasma P AUC (hr.mmol/L) |  | 1.48 (1.09, 1.88) | 0.397 (0.00, 0.79) | 0.22 (-0.17, 0.60) | 0.62 (0.23, 1.00) | -0.35 (-0.74, 0.04) | -0.72 (-1.11, -0.33) |
| Whole blood iCa (mmol/L) | 0 | 1.31 (1.28, 1.34) | 1.31 (1.28, 1.35) | 1.31 (1.28, 1.34) | 1.31 (1.28, 1.35) | 1.31 (1.28, 1.34) | 1.32 (1.29, 1.35) |
| 60 | 1.23 (1.19, 1.26) | 1.23 (1.20, 1.26) | 1.21 (1.18, 1.24) | 1.22 (1.19, 1.25) | 1.24 (1.20, 1.27) | 1.25 (1.22, 1.28) |
| 120 | 1.22 (1.19, 1.26) | 1.23 (1.19, 1.26) | 1.22 (1.19, 1.25) | 1.25 (1.22, 1.29) | 1.25 (1.22, 1.28) | 1.26 (1.22, 1.29) |
| 180 | 1.19 (1.16, 1.22) | 1.20 (1.17, 1.23) | 1.20 (1.17, 1.23) | 1.23 (1.20, 1.26) | 1.23 (1.20, 1.27) | 1.24 (1.21, 1.27) |
| 240 | 1.20 (1.17, 1.23) | 1.23 (1.20, 1.26) | 1.26 (1.22, 1.29) | 1.26 (1.23, 1.30) | 1.26 (1.23, 1.30) | 1.28 (1.25, 1.31) |
| 300 | 1.20 (1.17, 1.24) | 1.24 (1.21, 1.28) | 1.26 (1.23, 1.29) | 1.24 (1.21, 1.27) | 1.25 (1.22, 1.29) | 1.25 (1.22, 1.29) |
| 360 | 1.25 (1.22, 1.28) | 1.28 (1.25, 1.31) | 1.29 (1.25, 1.32) | 1.27 (1.24, 1.31) | 1.27 (1.23, 1.30) | 1.30 (1.26, 1.33) |
| Whole blood iCa AUC (hr.mmol/L) |  | -0.55 (-0.63, -0.47) | -0.45 (-0.53, -0.37) | -0.39 (-0.47, -0.32) | -0.38 (-0.46, -0.30) | -0.34 (-0.42, -0.26) | -0.33 (-0.41, -0.25) |
| Plasma PTH (pg/ml) | 0 | 8.53 (6.93, 10.50) | 8.33 (6.77, 10.20) | 8.37 (6.81, 10.30) | 8.09 (6.6, 9.93) | 8.47 (6.91, 10.40) | 8.24 (6.72, 10.10) |
| 120 | 21.70 (17.60, 26.80) | 18.10 (14.70, 22.30) | 17.90 (14.50, 22.10) | 14.3 (11.7, 17.6) | 14.30 (11.60, 17.50) | 11.70 (9.54, 14.40) |
| 140 | 27.20 (22.00, 33.60) | 12.50 (10.20, 15.40) | 10.30 (8.34, 12.60) | 13.4 (10.9, 16.4) | 8.65 (7.05, 10.60) | 7.52 (6.13, 9.22) |
| 360 | 13.00 (10.60, 16.10) | 7.86 (6.37, 9.69) | 7.35 (5.94, 9.10) | 10.5 (8.54, 12.9) | 9.08 (7.39, 11.20) | 7.23 (5.88, 8.89) |
| Plasma PTH (hr.pg/ml) |  | 75.00 (62.50, 87.40) | 32.90 (20.40, 45.30) | 27.60 (15.20, 40.10) | 28.9 (16.6, 41.2) | 15.50 (3.25, 27.80) | 5.57 (-6.70, 17.80) |