

Supplementary figure legends:

Supplementary Figure 1. Scatter plot with fitted regression lines of 25-hydroxyvitamin D (25OHD) measured by liquid chromatography/tandem mass spectroscopy (LC/MS/MS) (y-axis) and chemiluminescent immunoassay (CLIA) (x-axis). 25OHD was measured on samples obtained at weeks 4-12 in the vitamin D (red asterisk) and placebo (blue dot) groups. The regression equations for the two sets of data are $y = 0.35x + 25.58$ (vitamin D group – red dashed line) and $y = 0.45x + 12.40$ (placebo group-blue solid line). Systeme International conversion factors: 25OHD (nM), 2.496.

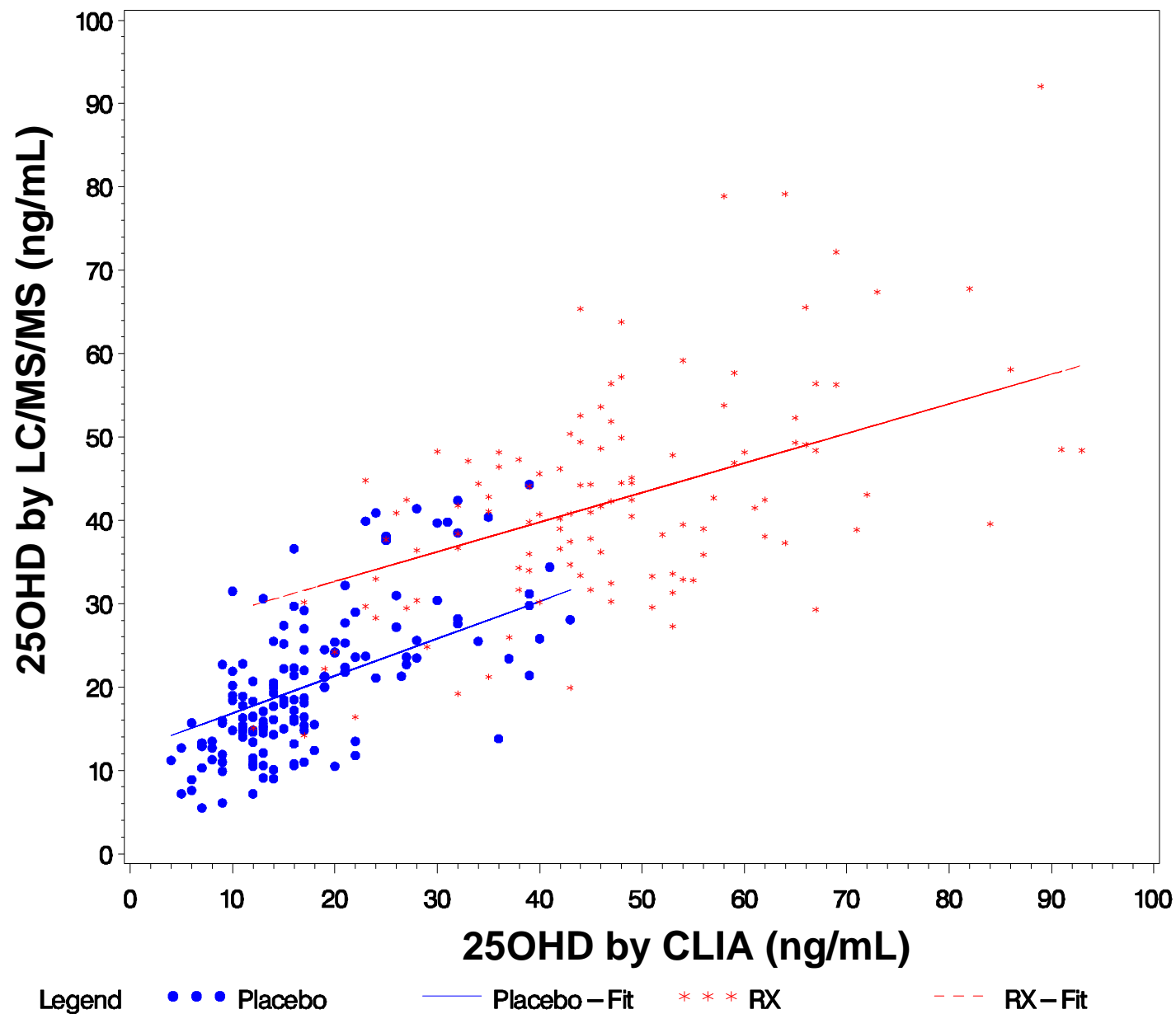
Supplementary Figure 2. Mean (\pm SE) 25-hydroxyvitamin D (25OHD) measured by (A) liquid chromatography/tandem mass spectroscopy (LC/MS/MS) and (B) chemiluminescent immunoassay (CLIA) at weeks 0, 4, 8, and 12 in the vitamin D (solid line) and placebo (dashed line) groups (the horizontal gray line represents the lower limit of normal for 25OHD levels). P value assesses change over time by repeated measures analysis of variance (ANOVA) as compared to placebo. Systeme International conversion factors: 25OHD (nM), 2.496.

Supplementary Figure 3. Mean (\pm SE) (A) 25-hydroxyvitamin D₂ (25OHD₂) measured by liquid chromatography/tandem mass spectroscopy (LC/MS/MS) and (B) 25OHD₃ measured by LC/MS/MS at weeks 0, 4, 8, and 12 in the vitamin D (solid line) and placebo (dashed line) groups. P value assesses change over time by repeated measures

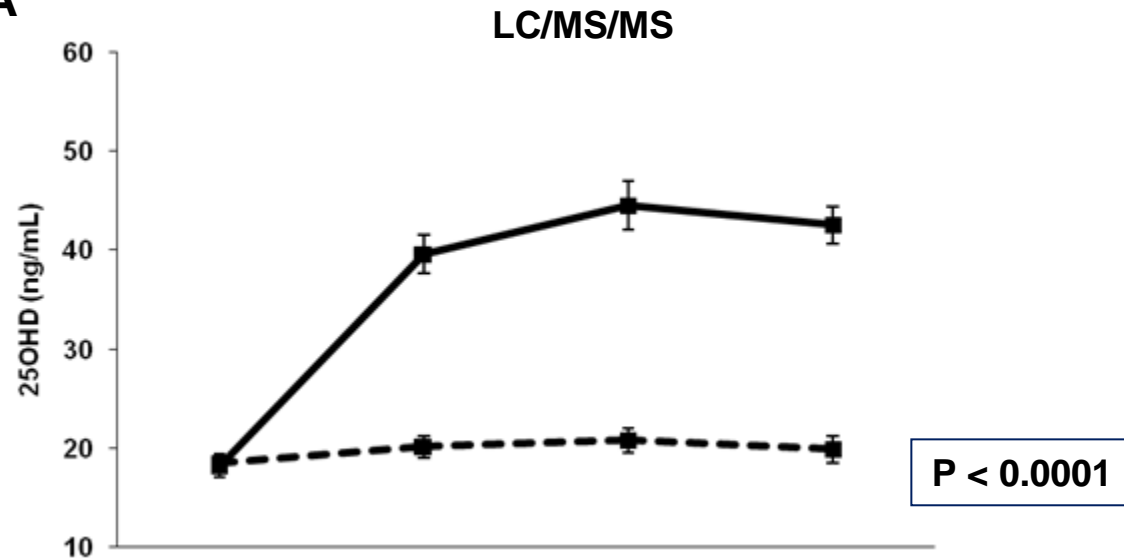
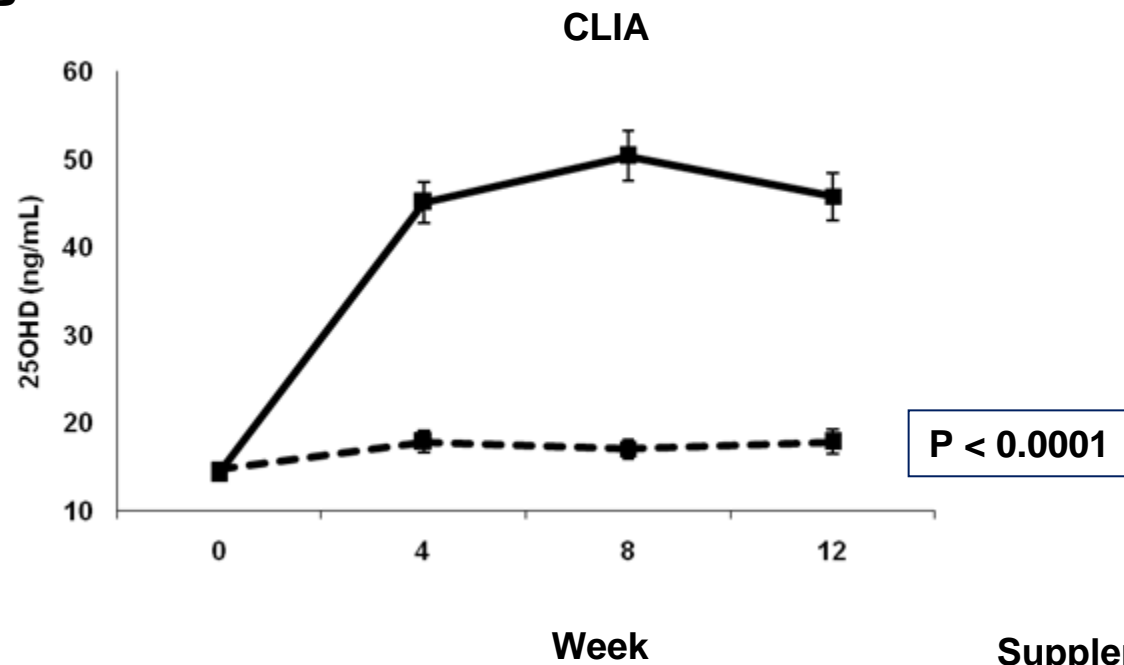
Randomized trial assessing the effects of ergocalciferol administration on circulating FGF23

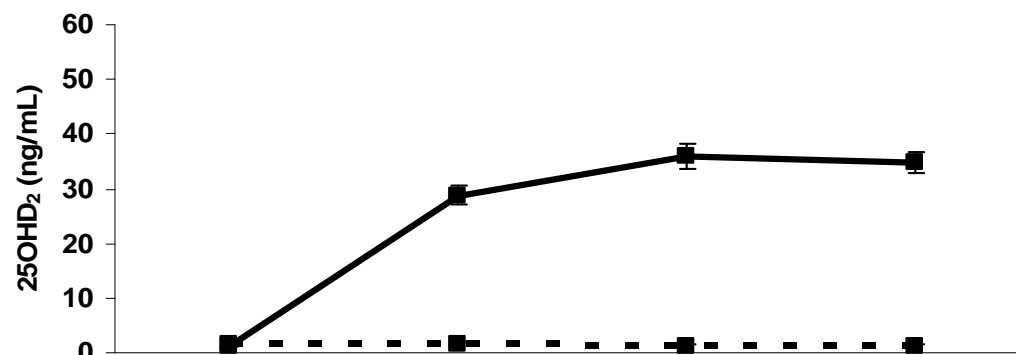
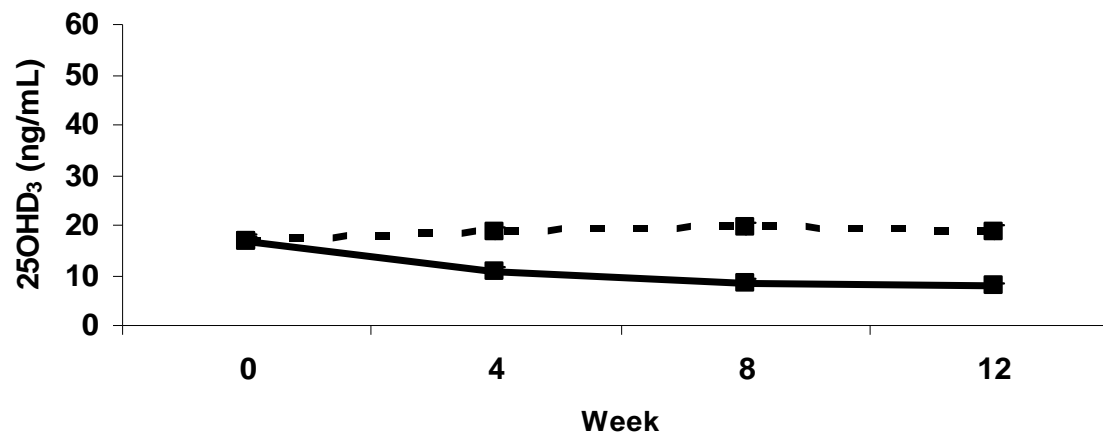
- 1 analysis of variance (ANOVA) as compared to placebo. Systeme International
- 2 conversion factors: 25OHD (nM), 2.496.
- 3

25OHD: LC/MS/MS vs. CLIA



Supplementary Fig. 1

A**B**

A**25OHD₂ measured by LC/MS/MS****P < 0.0001****B****25OHD₃ measured by LC/MS/MS****P < 0.0001****Supplementary Fig. 3**