

Supplementary. There was no correlation observed between acetylcarnitine, pyruvate, butyric acid, or ethanolamine and the levels of PTH, vitamin D, phosphorus, or FGF23. Figure with results of this analysis.

FGF-23

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,289 ^a | ,083 | ,032 | 244,53518 | ,083 | 1,635 | 1 | 18 | ,217 |

a. Predictors: (Constant), Acetylcarnitine

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,325 ^a | ,106 | ,056 | 241,49939 | ,106 | 2,132 | 1 | 18 | ,162 |

a. Predictors: (Constant), Pyruvate

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,154 ^a | ,024 | -,031 | 252,36417 | ,024 | ,435 | 1 | 18 | ,518 |

a. Predictors: (Constant), Butyricacid

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,160 ^a | ,026 | -,029 | 252,11115 | ,026 | ,472 | 1 | 18 | ,501 |

a. Predictors: (Constant), Ethanolamine

Phosphate

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,559 ^a | ,313 | ,275 | ,42302 | ,313 | 8,198 | 1 | 18 | ,010 |

a. Predictors: (Constant), Ethanolamine

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,276 ^a | ,076 | ,025 | ,49053 | ,076 | 1,483 | 1 | 18 | ,239 |

a. Predictors: (Constant), Butyricacid

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,232 ^a | ,054 | ,001 | ,49645 | ,054 | 1,021 | 1 | 18 | ,326 |

a. Predictors: (Constant), Acetylcarnitine

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,059 ^a | ,003 | -,052 | ,50946 | ,003 | ,062 | 1 | 18 | ,806 |

a. Predictors: (Constant), Pyruvate

Vitamin D

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,149 ^a | ,022 | -,035 | 9,61240 | ,022 | ,384 | 1 | 17 | ,544 |

a. Predictors: (Constant), Butyricacid

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,223 ^a | ,050 | -,006 | 9,47491 | ,050 | ,892 | 1 | 17 | ,358 |

a. Predictors: (Constant), Ethanolamine

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,263 ^a | ,069 | ,015 | 9,37751 | ,069 | 1,266 | 1 | 17 | ,276 |

a. Predictors: (Constant), Acetylcarnitine

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,141 ^a | ,020 | -,038 | 9,62288 | ,020 | ,346 | 1 | 17 | ,564 |

a. Predictors: (Constant), Pyruvate

PTH

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,072 ^a | ,005 | -,050 | 50,08101 | ,005 | ,094 | 1 | 18 | ,763 |

a. Predictors: (Constant), Butyricacid

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,349 ^a | ,122 | ,073 | 47,05728 | ,122 | 2,494 | 1 | 18 | ,132 |

a. Predictors: (Constant), Ethanolamine

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,231 ^a | ,053 | ,001 | 48,85593 | ,053 | 1,013 | 1 | 18 | ,328 |

a. Predictors: (Constant), Acetilcarnitine

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | R Square Change | Change Statistics | | | |
|-------|-------------------|----------|-------------------|----------------------------|-----------------|-------------------|-----|-----|---------------|
| | | | | | | F Change | df1 | df2 | Sig. F Change |
| 1 | ,069 ^a | ,005 | -,051 | 50,09255 | ,005 | ,086 | 1 | 18 | ,773 |

a. Predictors: (Constant), Pyruvate