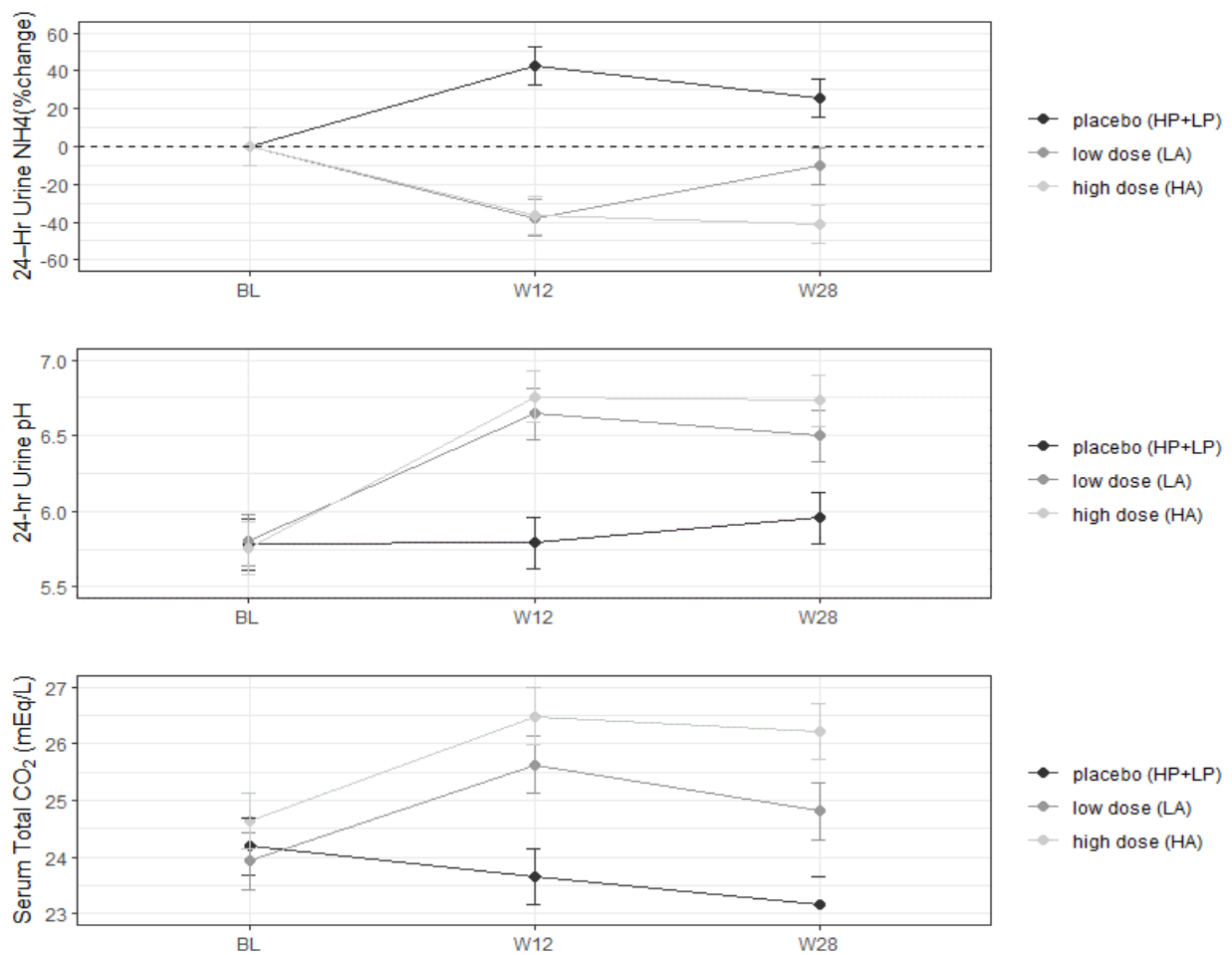


## Supplemental Material

### Table of Contents

1. Supplemental Figure 1.....	1
2. Supplemental Table 1.....	2
3. Supplemental References.....	3

### 1. Supplemental Figure 1. Effect of sodium bicarbonate on urinary pH and ammonium and serum total CO<sub>2</sub> in the subset of BASE Pilot Trial participants who were studied here.



**2. Supplemental Table 1.** Examples of normal values for bone turnover markers and klotho

<b>Bone-specific alkaline phosphatase<sup>1</sup></b> Premenopausal females: Postmenopausal females: Males older than 25 years:	<b>Range</b> 4.5-16.9 µg/L 7.0-22.4 µg/L 6.5–20.1 µg/L
<b>Procollagen type I intact N-terminal peptide<sup>1</sup></b> Premenopausal females: Postmenopausal females: Males:	<b>Range</b> 20-101 µg/L 16-96 µg/L 22-105 µg/L
<b>C-telopeptide<sup>1</sup></b> Premenopausal females: Postmenopausal females: Males 60-69 years:	<b>Range</b> 136-689 pg/L 16-96 pg/L 132-752 pg/L
<b>Tartrate-resistant acid phosphatase 5b<sup>2</sup></b> Premenopausal females: Postmenopausal females: Males:	<b>Mean (SD)</b> 2.9 (0.9) U/L 3.3 (1.5) U/L 3.2 (1.2) U/L
<b>Soluble klotho<sup>3</sup></b> All: Men: Women: 18–34.9 years: Men: Women: 35–54.9 years: Men: Women: 55–85 years: Men: Women:	<b>Mean (SD)</b> 813.8 (461.2) pg/mL 728.3 (412.0) pg/mL 874.0 (485.0) pg/mL 932.6 (575.6) pg/mL 850.9 (566.4) pg/mL 975.9 (578.3) pg/mL 796.7 (317.4) pg/mL 733.9 (249.6) pg/mL 851.5 (360.2) pg/mL 612.1 (198.2) pg/mL 567.9 (192.5) pg/mL 655.5 (196.2) pg/mL

### 3. Supplemental References

1. <https://www.aruplab.com>
2. <https://www.idsplc.com/wp-content/uploads/2015/03/ML1007-IDS-iSYS-TRAcP-5b-Technical-Sales-Sheet-EUR-V1.0.pdf>
3. Espuch-Oliver A, Vázquez-Lorente H, Jurado-Fasoli L, de Haro-Muñoz T, Díaz-Alberola I, López-Velez MDS, de Haro-Romero T, Castillo MJ, Amaro-Gahete FJ. Reference Values of Soluble  $\alpha$ -Klotho Serum Levels Using an Enzyme-Linked Immunosorbent Assay in Healthy Adults Aged 18-85 Years. *J Clin Med*. 2022 Apr 25;11(9):2415. doi: 10.3390/jcm11092415. PMID: 35566540; PMCID: PMC9101232.