**SUPPLEMENTAL DATA**

**Validation of the 24,25-Dihydroxyvitamin D to 25-Hydroxyvitamin D Ratio as a Biomarker of 25-Hydroxyvitamin D Clearance**

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## Supplemental Table 1. Analytical Variability of the Assays, Expressed as Between-batch Coefficient of Variation (CV%) of Vitamin D Metabolites

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| **Metabolite** | **CV (%)** | **Concentration Range Tested** |
| 25(OH)D2 | 3.45% - 15.23% | 1.33 – 40.82 ng/mL |
| 25(OH)D3 | 1.72% - 3.30% | 14.94 – 41.25 ng/mL |
| 24,25(OH)2D3 | 1.96% - 6.23% | 1.15 – 3.44 ng/mL |
| d-25(OH)D3 | 2.71% - 24.86% | 0.76 – 7.81 ng/mL |
| d-24,25(OH)2D3 | 16.9% - 76.4% | 0.02 – 0.20 ng/mL |

25(OH)D, 25-hydroxyvitamin D; 24,25(OH)2D3, 24,25-dihydroxyvitamin D3; d-25(OH)D3, deuterated 25-hydroxyvitamin D3; d-24,25(OH)2D3, deuterated 24,25-dihydroxyvitamin D3