

**Supplemental Table1 Associations of serum total, skeletal and non-skeletal alkaline phosphatase levels with elevated CRP levels in sub-sample with serum PTH measurements (N = 2190 )**

	Odds Ratio (95% CI)*	Odds Ratio (95% CI)**
Model 1:		
For each doubling of serum total alkaline phosphatase	2.21 (1.48 – 3.31)	2.27 (1.50 – 3.41)
Model 2:		
For each doubling of serum skeletal alkaline phosphatase	1.07 (0.79 – 1.44)	1.08 (0.79 – 1.48)
For each doubling of residuals†	5.72 (3.20 – 10.23)	5.71 (3.18 – 10.24)

\*Adjusted for demographics (age, gender and race), systolic and diastolic blood pressure, waist circumference, estimated GFR, diabetes, myocardial infarction, congestive heart failure, stroke, liver disease, serum calcium, serum phosphorus, serum aspartate transaminase (AST), alanine transaminase (ALT), gamma glutamyl transpeptidase (GGT), bilirubin, albumin and hemoglobin

\*\*Adjusted for above plus serum parathyroid hormone

†The residuals represent the component of serum total alkaline phosphatase not explained by serum skeletal alkaline phosphatase

**Supplemental Figure 1** Contour plot of the associations of serum total alkaline phosphatase, serum skeletal alkaline phosphatase and non-skeletal alkaline phosphatase (residuals) with elevated serum CRP in NHANES 1999 - 2004 (n=10,707)

