



Supplementary Figure S1. Pearson correlation scatterplots are illustrated for $n=7$ male participants with associated Pearson correlation coefficient values and P -values for two comparisons: first, correlating initial acetyl phosphate concentration to the percent difference in SCIM scores (A) and second, correlating change (delta) in 1,3,7-trimethyluric acid, 1,9-dimethyluric acid, and acetic acid to the percent difference in SCIM scores (B-D, respectively). The x-axis provides the percent difference in SCIM score, with larger numbers indicating a greater improvement. A higher value on the y-axis represents a higher initial metabolite concentration (A) or a larger change in metabolite concentration from the initial to the 6-month time point (B-D). Starred p -values indicate significance after Bonferroni correction ($\alpha=0.0038$).