



**Supplementary Figure 1. Sample selection flow chart, 2019-2020**

Of the 438 Samoan children who participated in the study, we excluded those with missing or implausible anthropometry data and dual x-ray absorptiometry (DXA) scans, were outside of the eligible age range (highlighted in gray). We used random sampling to select a model development sample and validation sample based on a 2:1 ratio.