**Alternate Maturity Offset Prediction Equation for Boys when there is No Documented Sitting Height and External Calibration Results**

***Paragraph Number 1:*** We understand that there are many cross-sectional studies where sitting height is not documented, yet assessing maturity would offer important insights into study findings. As such, we created an alternate model for boys that included an age x height interaction term. The alternate maturity offset (MO) regression equation for boys is:

$$Maturity offset= -7.999994+(0.0036124 x age\*height); R^{2}=0.896;SEE=0.542$$

As in the redeveloped formulas in the main text, height measurements are in cm. This model considers robust standard errors of the coefficients as we employed the cluster-robust variance estimator in developing these new equations. Note that the R2 is less and the SEE is more in the model that uses height only.

***Paragraph Number 2:*** When we calibrated this equation in the HBS-III boys: b0=0.06(0.05); b1=0.99(0.03); RMSE=0.91. This equation for boys should only be used when sitting height is not documented, and it should be noted that fit of this equation is less than that of the redeveloped equation. With the alternate boys’ equation, we found that in ~85% of cases MO could be assessed within ± one year.