Table 4

RMSE values for true PROMIS theta and linked PROMIS theta, estimated from PHQ-9, by different linking methods and latent instrument correlation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Latent correlation | Unidimensional  IRT | Equipercentile | Calibrated Projection | (Predicted) |
| 1.00 | .450 | .458 | - | .450 |
| .95 | .535 | .544 | .531 | .530 |
| .90 | .608 | .617 | .595 | .595 |
| .85 | .679 | .684 | .651 | .651 |
| .80 | .747 | .746 | .701 | .700 |
| .75 | .809 | .801 | .743 | .743 |
| .70 | .868 | .853 | .782 | .781 |
| .65 | .923 | .901 | .815 | .814 |
| .60 | .973 | .947 | .844 | .844 |

*Note.* RMSE = root-mean squared error.