**SAS PROC IRT Example**

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SAS Version 9.4(TS1M2) includes a procedure (PROC IRT) that estimates eigenvalues of the polychoric correlation matrix, scree plots, IRT model fit statistics, graded response model parameter estimates, item characteristic curves, item information curves, and the test information curve. We ran PROC IRT for the PROMIS global physical health scale (Hays, Bjorner et al., 2009, Quality of Life Research, 18, 973-880). The code is shown below and the output is provided in the *promisgph.pdf* file.

DATA PROMIS;

INFILE "C:\PCAR\gh\_orig\_all.dat";

INPUT CASEID GLOBAL03 GLOBAL06 R\_GLOBAL07 R\_GLOBAL08;

RUN;

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TITLE "PROC IRT EXAMPLE USING PROMIS GLOBAL PHYSICAL HEALTH SCALE";

PROC IRT DATA=PROMIS PLOTS=(ALL);

VAR GLOBAL03 GLOBAL06 R\_GLOBAL07 R\_GLOBAL08;

RUN;

The results match what was reported in Hays et al. (2009) within rounding error.