PREDICTING READING PROBLEMS 6 YEARS INTO THE FUTURE

Dynamic Assessment Reduces Bias & Increases Classification Accuracy

PURPOSE

Can a 3-minute dynamic assessment accurately identify kindergarten students who will have difficulty learning to decode?

test → teach → test

METHOD

370 diverse kindergarten students were administered the Decoding subtest of the PEARL and their decoding skills were followed for **6** years.

75-80%
SENSITIVITY & SPECIFICITY

RESULTS

The 3-minute dynamic assessment predicted which students would have decoding difficulties in the 5th grade with 75%–80% accuracy.

RESULTS

Static measures of Letter Naming Fluency and First Sound Fluency did not predict later decoding problems or improve the dynamic assessment's classification accuracy.

Petersen, D. B., Gragg, S. L., & Spencer, T. D. (2018). Predicting reading problems six years into the future: Dynamic assessment reduces bias and increases classification accuracy. Language, Speech, and Hearing Services in Schools, 49, 875-888.