

Five Ways to Determine Intervention Effectiveness

- Informal assessments
 - Open to subjective, expectancy effects
 - Not point of reference to others
- Raw score improvements
 - Pervasive in education
 - Progress monitoring in RTI/MTSS
 - Distance race analogy
 - Students can be progressing in raw scores while getting farther behind at the same time
- Statistically significant differences between groups
 - Included in intervention studies and commonly reported in abstracts, often without the word “statistical”
 - Experimental and control may both be effective and ineffective
- Effect sizes
 - Virtually required for all instruction/intervention studies
 - Due to pervasiveness in scientific literature it is the most potentially misleading index of effectiveness
 - Technically incapable of telling us if a program is effective
- Standard score point gains on nationally normed tests
 - Stand scores based on nationally stratified norm group can tell us if an intervention or teaching practice is effective
 - Strong inter-correlations among all the major word identification subtests from the leading achievement batteries suggests a fairly stable point of reference to determine improvement
 - Not useful for routine weekly or monthly progress monitoring

Conclusions About Determining Effectiveness

- The use of nationally normed word identification tests and subtests from the major batteries is our “gold standard” for determining the effectiveness of interventions for word-level reading skills\
- All other approaches are inherently incapable of determining effectiveness with that same degree of confidence