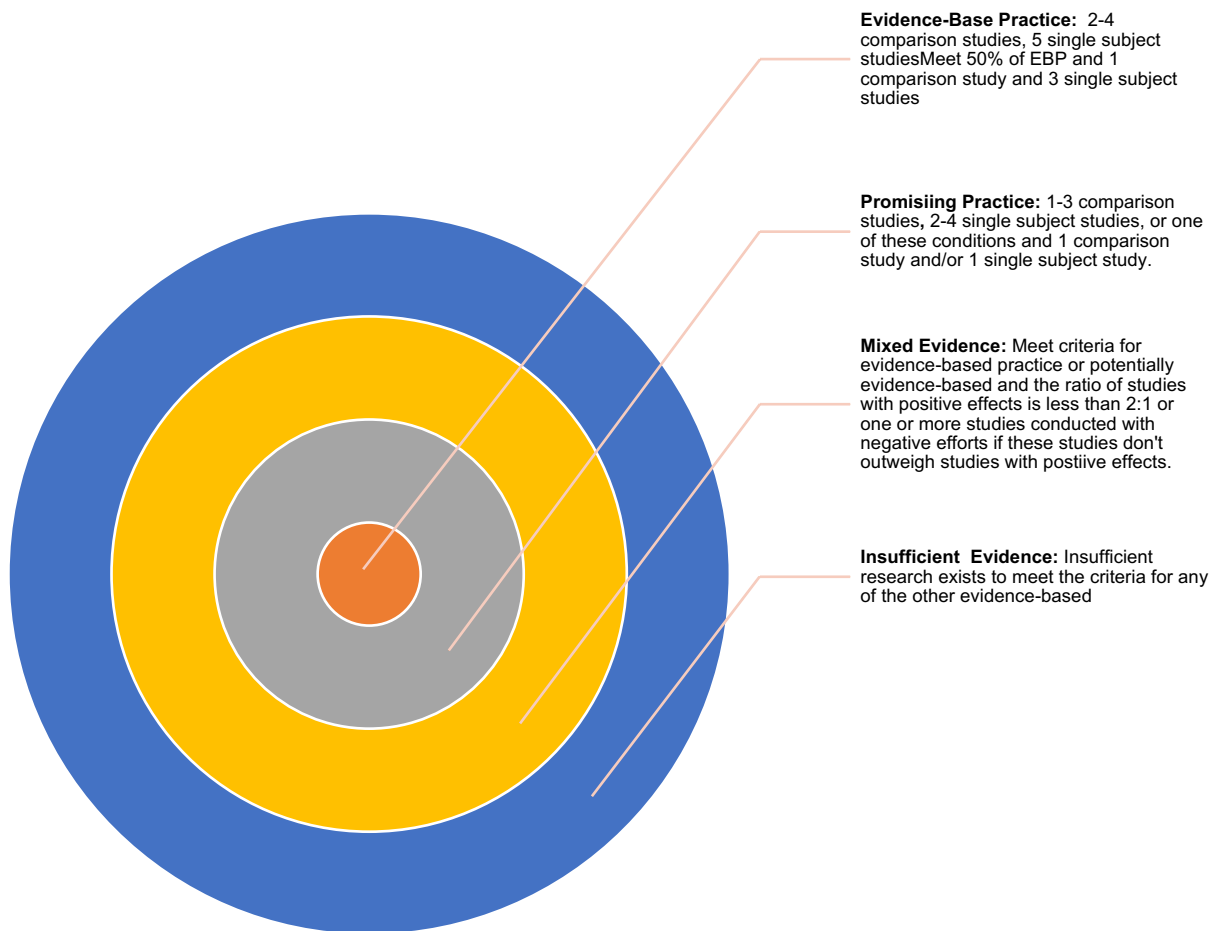


Evidence-Based Practice

An evidence-based practice can be defined as an instructional strategy, intervention, or teaching program that has resulted in consistent positive results when experimentally tested (Mesibov & Shea, 2011; Simpson, 2005). The implementation of high quality research is needed in order for intervention strategies to be considered an evidence-based practice (Odom, Collet-Klingenberg, Rogers, & Hatton, 2010). Boutot and Myles (2011) further define “quality” as research that incorporates experimental, quasi-experimental, or single-subject research designs; is replicated multiple times; and is published in peer-reviewed professional journals

Is Your Evidence-Based Practice on Target?



Evidence-Base Practice: Target Practice

Evidence-Based Practice	Yes	No	Don't Know	Now What?
This evidence-base practice has two methodologically sound comparison studies with random assignment to groups, positive effects and at least 60 participants across studies.				
This evidence base practice has four methodologically sound group comparison studies with non-random assignment to groups, positive effects, and at least 120 total participants across studies.				
This evidence base practice has five methodologically sound single-subject studies with positive effects and at least 20 total participants across studies.				
This evidence base practice meet at least 50% of criteria for two or more of the study designs described above and one methodologically sound group comparison study with random assignment, positive effects, and at least 30 total participants, as well as three methodologically sound single subject research studies with positive effects and at least 10 total participants.				
This evidence base practice meets at least 50% of criteria for two or more of the study designs described above and three methodologically sound single-subject studies with positive effects and at least 10 total participants as well as two methodologically sound group comparison studies with non-random assignment, positive effects, and at least 60 total participants.				
This evidence base practice meets at least 50% of criteria for two or more of the study designs described above and includes no methodologically sound studies conducted with negative effects and at least a 3:1 ratio of methodologically sound studies with positive effects to methodologically sound studies with neutral/mixed effects.*				

Evidence-Base Practice: Target Practice

Promising Practice or Potentially Evidence-Based Practice	Yes	No	Don't Know	Now What?
This promising practice has one methodologically sound group comparison study with random assignment to groups and positive effects;				
This promising practice has two or three methodologically sound group comparison studies with non-random assignment to groups and positive effects.				
This promising practice has two to four methodologically sound single subject studies with positive effects.				
This promising practice meets at least 50% of criteria for two or more of the study designs described above, for example, this practice is supported by one methodologically sound single-subject study with positive effects and one methodologically sound non-randomly assigned group comparison.				
This promising practice meets at least 50% of the criteria for two or more of the study designs described above and includes no methodologically sound studies conducted with negative effects, and at least a 2:1 ratio of methodologically sound studies with positive effects to methodologically sound studies with neutral/mixed effects*.				
This evidence base practice meets at least 50% of criteria for two or more of the study designs described above and includes no methodologically sound studies conducted with negative effects and at least a 3:1 ratio of methodologically sound studies with positive effects to methodologically sound studies with neutral/mixed effects.*				

Evidence-Base Practice: Target Practice				
Mixed Evidence	Yes	No	Don't Know	Now What?
This mixed evidence based practice must meet criterion for evidence-based practice (orange table) or potentially evidence-based practice (gray table) regarding number of methodologically sound studies with positive effects supporting the practice.				
This mixed evidence based practice must meet criterion for evidence-based practice (orange table) or potentially evidence-based practice (gray table) regarding the ratio of methodologically sound studies methodologically sound studies with positive effects to methodologically sound studies with neutral/mixed effects is less than 2:1.				
This mixed evidence based practice may have methodologically sound studies conducted with negative effects, as long as methodologically sound studies with negative effects do not outnumber methodologically sound studies with positive effects.				

Evidence-Base Practice: Target Practice				
Insufficient Evidence	Yes	No	Don't Know	Now What?
Insufficient research evidence exists to meet the criteria for any of the other evidence-based.				

*CEC considers group experimental, nonrandomly assigned group comparison, and single-subject design studies collectively.

Terminology to Consider:

- Comparison Studies
- Random assignment
- Positive effects
- Methodologically sound
- Non-random assignment

Single Subject Studies

References:

Adapted from: <https://www.cec.sped.org/Standards/Evidence-Based-Practice-Resources-Original>