

Evidence-Based Practices for Autistic Students

Tips and Resources for Administrators and Educators

WHAT IS EVIDENCE-BASED PRACTICE (EBP)?

An intervention is an evidence-based practice when there is scientific evidence to support its claims. Evidence-based practices must be selected for implementation based on sound professional judgment, coupled with the careful review of available data, input from individuals and family members, and an honest evaluation of the educators' capacity to implement the interventions accurately.

WHY IS IT IMPORTANT TO IDENTIFY EVIDENCE-BASED PRACTICES?

The long-term outcomes for autistic students and adults are greatly impacted by the types of interventions that they receive. Intervening early and with efficacy can make a difference in the academic, cognitive, social, behavioral, communicative, and self-help outcomes for autistic individuals. For this reason, extra time and resources are rarely available to invest in unproven or inconsistently effective practices. Educators, caregivers, and practitioners who serve autistic students are empowered when they can select treatments that are likely to have a maximal positive impact and will be acceptable and feasible.

HOW ARE EVIDENCE-BASED PRACTICES IDENTIFIED FOR THE TREATMENT OF ASD?

The National Clearinghouse on Autism Evidence and Practice Review Team identified and published a list of 28 evidence-based practices that have positive effects with autistic children and youth. Panels of experts reviewed 31,779 research abstracts and ultimately 972 research studies in which practices were tested with autistic individuals under 22 years of age.

The panelists checked the quality of studies and evaluated the effects of the interventions (Steinbrenner et. al, 2020).

WHAT EVIDENCE-BASED PRACTICES HAVE BEEN IDENTIFIED FOR AUTISTIC STUDENTS?

- Antecedent-Based Interventions
- Naturalistic Intervention
- Ayres Sensory Integration
- Parent-Implemented Intervention
- Augmentative and Alternative Communication
- Peer-Based Instruction and Intervention
- Behavioral Momentum Intervention
- Prompting
- Cognitive Behavioral Instructional Strategies
- Reinforcement
- Differential Reinforcement of Alternative, Incompatible, or Other Behavior
- Response Interruption/Redirection
- Direct Instruction
- Self-Management
- Discrete Trial Training
- Social Narratives
- Exercise and Movement
- Social Skills Training
- Extinction
- Task Analysis
- Functional Behavioral Assessment
- Technology-Aided Instruction and Intervention
- Functional Communication Training
- Time Delay
- Modeling
- Video Modeling
- Music-Mediated Intervention
- Visual Supports

TRIAD, the autism institute at the Vanderbilt Kennedy Center, offers a variety of professional development and training about many of the EBPs listed identified by the National Clearinghouse on Autism Evidence and Practice Review Team. The infographic below highlights many of the EBPs TRIAD features during trainings.

EVIDENCE-BASED PRACTICES



ANTECEDENT-BASED INTERVENTIONS (ABI)

Arrangement of events that precede an activity to increase the likelihood that the desired behavior occurs again.

AUGMENTATIVE & ALTERNATIVE COMMUNICATION (AAC)

Interventions using and/or teaching the use of a system of communication that is not verbal or vocal.



DIRECT INSTRUCTION (DI)

A systematic approach to teaching using a sequenced instructional package with scripted protocols or lessons.

MODELING (MD)

Demonstrating the desired target behavior by the instructor that leads to acquisition of the target behavior by the learner.



NATURALISTIC INTERVENTION (NI)

A collection of strategies that are embedded in typical activities, that are learner-directed.

PROMPTING (P)

Verbal, gestural, or physical assistance given to learners to support them in acquiring or engaging in a target behavior or skill.



REINFORCEMENT (R)

A response following a learner's use of a desired skill or behavior that increases the likelihood that the behavior will occur again.

SOCIAL NARRATIVES (SN)

Interventions that describe social situations in order to highlight relevant features of a target behavior or skill to increase appropriate responding.

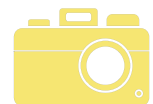


TASK ANALYSIS (TA)

Dividing an activity or behavior into small, manageable steps in order to assess or teach the skill.

VISUAL SUPPORTS (VS)

A visual display that supports the learner in engaging in a desired behavior independent of additional prompts.



HOW CAN ADMINISTRATORS AND EDUCATORS LEARN MORE ABOUT EVIDENCE-BASED PRACTICES FOR AUTISTIC STUDENTS?

TRIAD RESOURCES

TRIAD is a proud member of the Tennessee Technical Assistance Network (TN-TAN) through the Tennessee Department of Education. Through this network, we provide interactive training and consultation for administrators, teachers, paraeducators, school psychologists, and other professionals serving Tennessee students, including autistic students, in K-12 school settings. Email triad.doe@vumc.org with any questions. triad.vumc.org/schools

- ❑ TRIAD offers Brief Online Training Sessions (BOTS) and archived webinars to provide information on evidence-based practices for individuals with Autism Spectrum Disorder. Check our online learning portal to access these free trainings and resources. triad.vumc.org
- ❑ TRIAD offers live webinars that engage participants in interactive learning opportunities through live video training. Our webinars include a variety of topics that enhance professional knowledge in serving autistic students in the K-12 setting. triad.vumc.org/livewebinars

VANDERBILT AUTISM RESOURCE LINE

A single helpline to make it easier for families and professionals to find information about autism-related clinical, research, and outreach services at Vanderbilt University and Vanderbilt University Medical Center. The helpline serves families, caregivers, clinicians, educators, and others in need of autism-related resources at Vanderbilt.

- ❑ Local: (615) 322-7565 or toll-free: (877) 273-8862
- ❑ E-mail: autismresources@vumc.org

OTHER RESOURCES

- ❑ National Autism Center's 'An Educator's Manual to Evidence-based Practice and Autism, 2nd Edition: nationalautismcenter.org/resources/for-educators/
- ❑ 2020 EBP Report from the National Clearinghouse on Autism Evidence and Practice ncaep.fpg.unc.edu/research-resources

REFERENCE

Steinbrenner, J. R., Hume, K., Odom, S. L., Morin, K. L., Nowell, S. W., Tomaszewski, B., Szendrey, S., McIntyre, N. S., Yücesoy-Özkan, S., & Savage, M. N. (2020). Evidence-based practices for children, youth, and young adults with Autism. The University of North Carolina at Chapel Hill, Frank Porter Graham Child Development Institute, National Clearinghouse on Autism Evidence and Practice Review Team.