Boot Camp

Presented by
CAPTAIN Leadership
Cadre members:

- Nominated by SELPAs, Regional Centers, and Family Resource/Family Empowerment Centers
- Will receive training through our annual summit
- Will learn about the NPDC-ASD and CAPTAIN training materials
- Will assist with the statewide distribution of the EBPs by providing support and training locally
- Who’s here? Kahoot
What is CAPTAIN?

CAPTAIN is a multiagency network developed to support the understanding and use of Evidence-Based Practices for individuals affected by Autism Spectrum Disorder across the state.
CAPTAIN Video
CAPTAIN Vision

Develop a statewide training and technical assistance network with a focus on Evidence-Based Practices for individuals impacted by ASD inclusive of stakeholder agencies who will disseminate information at a local level.
**CAPTAIN Goals**

**Goal 1:** Increase knowledge about ASD and EBPs through *systematic dissemination* of information.

**Goal 2:** Increase *implementation and fidelity* of EBPs in schools and communities.

**Goal 3:** Increase *interagency collaborations* to leverage resources and standardize a process for using EBPs.
All Cadre Must..

1. Complete “ASD Across the Lifespan” online class through Coursera (New members only)
2. Complete annual CAPTAIN online survey
3. Participate in annual CAPTAIN Summit
4. Participate in local CAPTAIN collaborative meetings/activities to implement local plans (at least quarterly)
Additional Regional Center Requirements

• Provide trainings for your Regional Center staff, families, and/or providers on “Overview of ASD, CAPTAIN and EBPs for ASD” (at least 4 per year)

• Meet with your RC Leadership to discuss ways to increase understanding and use of EBPs and Implementation of Regional Plans

• Participate in quarterly Regional Center ASD/Behavior Specialist regional meetings

• Participate in semi-annual Regional Center ASD/Behavior Specialist statewide meetings and report back to Clinical Directors
Additional Federally and State Funded Parent Support Organization Cadre Requirements

- Share information with your support organization staff about CAPTAIN, EBPs for ASD, and LTSAE resources so that they may assist with information dissemination (Does not need to be a formal training, but Cadre must commit to sharing with their staff)

- Act as a LTSAE "Deputy Ambassador," which includes assisting with Regional Milestones Brochure development and dissemination to support child find
Additional SELPA Requirements

• Provide trainings for your SELPA on ”Overview of ASD, CAPTAIN and EBPs for ASD” (at least 1 per year)

• Provide 3 trainings on specific EBPs

• Provide implementation coaching for 3 teachers/programs within your SELPA using implementation checklists and coaching process OR train 3 additional coaches on CAPTAIN model of training and coaching EBPs for ASD

• Meet with SELPA leadership to discuss and plan for local implementation of Regional Plans
Additional Requirements for Preservice Teacher Educators

• Share information about CAPTAIN and EBPs for ASD with your department so that other teacher educators at your institution are able to integrate information into their teaching

• Include Overview of CAPTAIN, ASD and EBPs into appropriate course work

• Provide opportunities for teacher candidates in your program to take specific EBP training modules and use fidelity checklists (during observations or as part of their own fieldwork/student teaching)
What are Evidence-Based Practices?

- Are practices for which there is scientifically-based research that demonstrates efficacy for individuals with ASD
- Rely on the application of rigorous, systematic, and objective procedures to obtain reliable and valid knowledge for intervention and educational activities and programs
Why Evidence Based Practices?

- Treatments for ASD are more diverse than any other known disability
- Treatment claims range from amelioration to recovery
- Many interventions with little or no scientific evidence are recommended for individuals with ASD
About 46,500,000 results (0.92 seconds)

Autism Research & Cord Blood - Read about the Phase 1 Trial

About 46,500,000 results for “AUTISM TREATMENT” (!!!)

(September 12, 2017)

From Sensory Avoidant - To Sensory Tolerant

Touchpoints can relieve stress, manage anxiety & promote calm with [Ad] www.thetouchpointssolution.com/

Autism Therapy & Treatment - Root Hyperbaric Therapy @CIHC
The Lanterman Developmental Disabilities Act

- Is a California law passed in 1969, that gives people with developmental disabilities the right to services and supports that enable them to live a more independent and normal life.

- The Lanterman Act is codified in the Welfare and Institutions Code and has been amended several times since its passage, including...
Effective July 1, 2009... regional centers shall:

(1) Only purchase ABA services or intensive behavioral intervention services that reflect evidence–based practices, promote positive social behaviors, and ameliorate behaviors that interfere with learning and social interactions...”
(c) (1)(C) (iii) Provides intervention plans that utilize evidence-based practices, with demonstrated clinical efficacy in treating pervasive developmental disorder or autism.
Multi-tiered System of Supports (MTSS): A Comprehensive Framework for Implementing CCSS

www.mydigitalchalkboard.org

MTSS Principles and Practices

- Early Intervention
- Multi-tiered model
- Evidence-based supports and practices
- Fluidly driven by data
- Individualized interventions
- Principles of UDL
- Differentiated learning
- Integration of intervention and instructional supports
- Classroom instruction aligned with the CA CCSS
- Strong, predictable, and consistent classroom management structures

(www.kansasmtss.org)
The principles of Universal Design for Learning (UDL) provide a framework for educators to use:

- multiple ways to teach the content
- multiple ways for students to demonstrate knowledge
- multiple ways to engage ALL learners
There are more than 104,573 students with ASD in CA Public Schools and that number is steadily growing (CDE, 2017)

More than half of students with ASD have cognition in the average range (CDC, 2016)

Students with ASD can be supported in accessing the general education curriculum and the CA State Standards with the use of UDL and EBPs for Autism
EBPs for ASD in the UDL Guidelines

**Flexibility in Presentation**
- Visual Supports
- Technology Aided Instruction
- Video Modeling

**Flexibility in Expression**
- Visual Supports
- Technology Aided Instruction
- PECS/AAC

**Flexibility in Engagement**
- Reinforcement Systems
- Antecedent Based Interventions
- Peer Mediated Instruction
775 research studies reviewed by National Standards Project from National Autism Center, Phase 1 (NSP1)

Included research for the years: 1957-2007

In 2009, identified 11 Established Treatments
Systematic Reviews of the Literature for Evidence Based Practices (EBPs)

- 2nd Review by National Standards Project, National Autism Center, Phase 2 (NSP2)
- 351 articles (ages 0-22) and 27 articles (ages 22+)
- Included studies if the interventions could be implemented in or by school systems, early intervention, home, hospital, vocational, and/or community-based programs or in clinic settings
- Reviewed studies published in peer reviewed journals between 2007 and February of 2012
- In 2015, 14 Established Interventions Under Age 22; 1 Established Intervention Age 22+
Systematic Reviews of the Literature for Evidence Based Practices (EBPs)

- 175 research studies reviewed by National Professional Development Center (NPDC)
- Included research for the years: 1997-2007
- In 2010, identified 24 EBPs
• 14 Established Interventions

• 18 Emerging Interventions

• 13 Unestablished Interventions
The following interventions have been identified as falling into the Established level of evidence:

- Behavioral Interventions
- Cognitive Behavioral Intervention Package
- Comprehensive Behavioral Treatment for Young Children
- Language Training (Production)
- Modeling
- Natural Teaching Strategies
- Parent Training
- Peer Training Package
- Pivotal Response Training
- Schedules
- Scripting
- Self-Management
- Social Skills Package
- Story-based Intervention

14 ESTABLISHED INTERVENTIONS
(for individuals under age 22)
The following interventions have been identified as falling into the Emerging level of evidence:

- Augmentative and Alternative Communication Devices
- Developmental Relationship-based Treatment
- Exercise
- Exposure Package
- Functional Communication Training
- Imitation-based Intervention
- Initiation Training
- Language Training (Production & Understanding)
- Massage Therapy
- Multi-component Package
- Music Therapy
- Picture Exchange Communication System
- Reductive Package
- Sign Instruction
- Social Communication Intervention
- Structured Teaching
- Technology-based Intervention
- Theory of Mind Training

18 EMERGING INTERVENTIONS
(for individuals under age 22)
The following interventions have been identified as falling into the Unestablished level of evidence:

- Animal-assisted Therapy
- Auditory Integration Training
- Concept Mapping
- DIR/Floor Time
- Facilitated Communication
- Gluten-free/Casein-free diet
- Movement-based Intervention
- SENSE Theatre Intervention
- Sensory Intervention Package
- Shock Therapy
- Social Behavioral Learning Strategy
- Social Cognition Intervention
- Social Thinking Intervention

13 UNESTABLISHED INTERVENTIONS (for individuals under age 22)
NSP2 Example

Modeling

One of the most effective ways to teach someone what to do is to show him or her how to do it. The goal of modeling is to correctly demonstrate a target behavior to the person learning the new skill, so that person can then imitate the model. Children can learn a great deal from observing the behavior of parents, siblings, peers, and teachers, but they often need to be taught what behaviors should be imitated.

Number of articles reviewed:
NSPI = 51
NSP2 = 28

Effective ages: Children and adolescents 3-18 years

Skills increased:
- higher cognitive functions (NSPI)
- academic (NSP2)
- communication, interpersonal, personal responsibility, and play (NSPI or NSP2)

Behaviors decreased:
- problem behaviors (NSPI)
- sensory or emotional regulation (NSPI)

There are two types of modeling—live and video modeling.

Live modeling occurs when a person demonstrates the target behavior in the presence of the child with autism spectrum disorder (ASD). When providing live modeling:
- Clearly outline, in writing, the target behavior to model.
- Ensure all individuals modeling the target behavior are doing so in a consistent manner. It may be helpful for parents/caregivers/therapists to practice together to make certain each person provides the same model.
- Obtain the child’s attention prior to modeling the target behavior.
- Develop a plan to fade or stop the use of modeling to encourage the child to independently display the target behavior.

Video modeling occurs when you pre-record a person demonstrating the target behavior. Video modeling can be a great option for children/adolescents with an affinity for television shows, movies, or interest in seeing themselves on a monitor (i.e., television screen, computer monitor, video recorder monitor). Some children/adolescents may enjoy assisting in the production of
Only 1 Established Interventions for Adults

The only intervention to be identified as Established for individuals ages 22 years and older is Behavioral Interventions. The Behavioral Intervention category consists of applied behavior analytic interventions to increase adaptive behaviors and decrease challenging behaviors. Examples of specific strategies identified in the 17 articles supporting Behavioral Interventions are provided in the table on the following page.

Emerging Interventions for Adults

Emerging Interventions are those for which one or more studies suggest they may produce favorable outcomes. However, before we can be fully confident that the interventions are effective, additional high quality studies are needed that consistently show these interventions to be effective for individuals with ASD. Based on the available evidence, we are not yet in a position to rule out the possibility that Emerging Interventions are, in fact, not effective.

The following intervention has been identified as falling into the Emerging level of evidence:

- Vocational Training Package

Unestablished Interventions for Adults

Unestablished Interventions are those for which there is little or no evidence in the scientific literature that allows us to draw firm conclusions about their effectiveness with individuals with ASD. There is no reason to assume these interventions are effective. Further, there is no way to rule out the possibility these interventions are ineffective or harmful.

The following interventions have been identified as falling into the Unestablished level of evidence:

- Cognitive Behavioral Intervention Package
- Modeling
- Music Therapy
- Sensory Integration Package
Another Resource for Older Individuals with ASD

http://csesa.fpg.unc.edu/

CSESA
The Center on Secondary Education for Students with Autism Spectrum Disorder

CSESA Launches in 30 Schools
CSESA is off and running! The CSESA research team is collaborating with 30 high schools across the country in the 2014-2015 school year.
In 2014, 27 EBPs:

- 2nd review by NPDC (Mar 2014)
- Included 22 years, 1990-2011
  - 29,101 possible studies ➔ 456 studies
  - RCT, quasi-experimental, single case design
- Strength of evidence for assessment
- Based on number & type of studies using each EBP
<table>
<thead>
<tr>
<th>Antecedent-based interventions</th>
<th>Pivotal response training</th>
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<td>Cognitive behavioral intervention</td>
<td>Prompting</td>
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<td>Discrete trial training</td>
<td>Response interruption/redirection</td>
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<td>Extinction</td>
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<td>Functional behavior assessment</td>
<td>Social narratives</td>
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<td>Functional communication training</td>
<td>Social skills training</td>
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<tr>
<td>Modeling</td>
<td>Structured play groups</td>
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<td>Naturalistic interventions</td>
<td>Task analysis</td>
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<td>Parent-implemented intervention</td>
<td>Technology-aided intervention/instruction</td>
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<tr>
<td>Peer-mediated instruction/intervention</td>
<td>Time delay</td>
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<tr>
<td>Picture Exchange Communication System™</td>
<td>Video modeling</td>
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<td></td>
<td>Visual supports</td>
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</table>
Fact Sheets Available for All of the 27 EBPs

- Definition of the intervention
- Age range of participants
- Type of outcomes it has generated
- Citations for the specific articles that provide the evidence for the efficacy of the practice
<table>
<thead>
<tr>
<th>Evidence-Based Practices Identified by the National Professional Development Center (NPDC) on ASD</th>
<th>Established Treatments Identified by the National Standards Project (NSP)</th>
<th>Comprehensive Behavioral Treatment for Young Children</th>
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Language training did not emerge as a focused intervention by the NPDC on ASD. Components of the Comprehensive Behavioral Treatment of Young Children overlap with NPDC identified practices that may support language production, such as modeling, prompting, and reinforcement. The NPDC on ASD did not review comprehensive treatment models.
How to Select EBPs?
CAPTAIN Recommends:

• Use 27 EBPs from NPDC
• Use 14 Established Interventions for Ages 0-22 from NAC
• Use 1 Established Intervention for Ages 22+ from NAC
Selecting EBPs

Watch a Short Overview Video on the Selecting EBP Process
Selecting an EBP

- EBPs are used to advance goals which are tied to standards
- Ask: What is our goal/objective targeting?
  - Consider the specific IEP goals and related objectives
- Ask: What are our options?
  - Look at the domain that the specific goal relates to
27 EBPs Matrix
Available on the CAPTAiN Website
English and Spanish!

www.captain.ca.gov
<table>
<thead>
<tr>
<th>Evidence Based Practice and Abbreviated Definition</th>
<th>Evidence by Developmental Domain and Age (years)</th>
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<td>Cognitive Behavioral Intervention (CBI): Instruction on cognitive processes leading to changes in behavior</td>
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<td>Differential Reinforcement of Alternative, Incompatible, or Other Behavior (DRA/I/O): Consequences provided for desired behaviors that reduce the occurrence of interfering behaviors</td>
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<td>Discrete Trial Teaching (DTT): Instructional process of repeated trials, consisting of instruction, response, and consequence</td>
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<td>Exercise (ECE): Antecedent based physical exertion to reduce interfering behaviors or increase appropriate behaviors</td>
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<td>Extinction (EXT): Removal of existing reinforcement in order to reduce an interfering behavior</td>
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<td>Functional Behavior Assessment (FBA): Systematic protocol designed to identify contingencies that maintain an interfering behavior</td>
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<td>Function Communication Training (FCT): Replacement of an interfering behavior with communication that accomplishes the same function</td>
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<td>Picture Exchange Communication System (PECS): Systematic 6 phase protocol teaching the exchange of pictures between communicative partners</td>
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<tr>
<td>Pivotal Response Training (PRT): Pivotal learning variables guide intervention implemented in settings that build on learner interests and initiative</td>
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<tr>
<td>Prompting (PP): Verbal, gestural, or physical assistance that supports skill acquisition</td>
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<td>Reinforcement (R+): A response occurring after a behavior resulting in an increased likelihood of future reoccurrence of the behavior</td>
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<td>Response Interruption/Redirection (RIR): Use of prompts or distracters during an interfering behavior that diverts attention and reduces the behavior</td>
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<td>Scripting (SC): A verbal or written model of a skill or situation that is practiced before use in context</td>
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<td>Self Management (SM): Instruction on discrimination between appropriate and inappropriate behaviors and accurate self-monitoring and rewarding of behaviors</td>
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<tr>
<td>Social Narratives (SN): Descriptions of social situations with examples of appropriate responding</td>
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<tr>
<td>Social Skills Training (SST): Direct instruction on social skills with rehearsal and feedback to increase positive peer interaction.</td>
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<tr>
<td>Structured Play Group (SPG): Adult lead small group activities that include typically developing peers and use prompting to support performance</td>
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<tr>
<td>Task Analysis (TA): The process of breaking a skill into small steps that are systematically chained together</td>
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<tr>
<td>Technology-Aided Instruction and Intervention (TAIL): Intervention using technology as a critical feature</td>
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<tr>
<td>Time Delay (TD): Delaying a prompt during a practice opportunity in order to fade the use of prompts</td>
<td></td>
</tr>
<tr>
<td>Video Modeling (VM): A video recording of a targeted skill that is viewed to assist in learning</td>
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<tr>
<td>Visual Support (VS): Visual display that supports independent skill use.</td>
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Selecting an EBP

Next, make a decision based on:

- The skills being taught
- Your professional wisdom
- The learner’s learning style
- The learner’s temperament
- The learner’s interests and motivators
- Supports already in place
- History of what has and hasn’t worked
Selecting EBPs

AFIRM
E-LEARNING MODULE

Selecting EBPs
Case Study: James
Let’s Practice!

Goal: Lucia (age 8) will respond to peer’s questions and comments with eye contact and appropriate phrases or sentences.

What is the goal targeting?

What are the options?
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Goal Attainment Scaling

- An evidence based tool to measure progress made on a goal or benchmark for:
  - An individual
  - A group of individuals
- A data collection tool that allows for progress to summarized and documented
- Not a substitute for goals (or other objective benchmarks) - it’s a supplement
Goal Attainment Scaling assists in monitoring progress of learning a skill or monitoring the behavior of a learner.

Progress is gauged using the GAS at regular points throughout the year.

It is important to establish the individual's present level of performance to set goals towards specific, clear, and observable outcomes.

The GAS is used to determine if the learner is benefiting from the use of the EBP.
<table>
<thead>
<tr>
<th>Current Level of Performance (0)</th>
<th></th>
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<tbody>
<tr>
<td>Initial Objective (1)</td>
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<tr>
<td>Secondary Objective (2)</td>
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<tr>
<td>Expected Level of Outcome (3)</td>
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<tr>
<td>Exceeds Expected Outcome (4)</td>
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</table>
Prior to Developing GAS

- Gather individual’s goals
- Identify 3 priority goals for each target client or student. Select based on goals that:
  - Must be an area of focus for the entire year
  - Must be observable and measurable
  - Must be agreed upon by team
- Update/collect data on present level of performance
Developing GAS

1. Write the annual goal (expected level of outcome) on GAS form
2. Write the present level of performance of GAS form
3. Determine the benchmarks on GAS form
4. Determine the somewhat more than expected level on GAS form
5 Point range of performance for students:
- Current Level of Performance (0)
- Initial Objective (1)
- Secondary Objective (2)
- Expected Level of Performance (3)
- Exceeds Expected Level of Performance (4)
Example: Eric

Eric is a high school student with autism, fully included in the general education curriculum.

Eric’s general education teachers are somewhat frustrated with Eric because he asks an excessive number of off-topic questions during class. This disrupts the flow of instruction and annoys peers and teachers.

Questions include:

- Do you still like me? Yes or no?
- Do you like my shirt today?
- Have you seen the new episode of Silicon Valley?
Eric

Eric has an annual goal that reads, “By May 2017, Eric will ask teachers no more than 5 questions (on or off topic) during a given class period in 6 periods over a 3 day period as measured by observation and data collection.”

Data was collected and it was determined that Eric asks an average of 41 off-topic questions every class period.
Example: John

- John is a 52 year old man with autism who works at a day program during the day and lives alone in a supported living community.

- At his home, John has recently refused to follow staff requests for him to change his clothes, brush his teeth, and take showers. When staff asks this of him, he will escalate from saying, “no”, throwing items (cups, books) at staff until they leave his room.

- His hygiene is affecting his social opportunities with other clients and staff at the day program are reporting his smell is not tolerable.
Currently, John is able to read at about 2ND grade level.

John has many items he enjoys such as soda, puzzles, snacks, paper to write letters, and to talk with his sister on the phone.
Your Turn!

- Select one of these examples

- In groups or individually, fill out a GAS form (and select or adjust the goal)

- Share back
Eric

- High school student
- Fully included
- Asks an excessive number of off-topic questions during class, disrupting the flow and annoying peers and teachers
- “By May 2017, Eric will ask teachers no more than 5 questions (on or off topic) during a given class period in 6 periods over a 3 day period as measured by observation and data collection.”
- Baseline: 41 off-topic questions every class period

John

- John is a 52 year old man with autism who works at a day program during the day and lives alone in a supported living community
- Refusing to participate in daily hygiene routine
- Is throwing items at staff to get them to leave his room
- His hygiene is affecting his social opportunities with other clients and staff at the day program are reporting his smell is not tolerable
- Baseline: John will participate in his daily hygiene once once a week
“Is This Extra Work?”

No-
- Goals are already written

Yes, but-
- Adding higher benchmarks is easy and can be fun!
- You can reflect greater growth than can be reasonably expected in 1 year
- Process often results in more focused teaching
- Can help alleviate differences in the views of team members
- Is very valuable as a tool to demonstrate class wide, agency wide, or specific service wide results
Welcome
CAPTAIN is a multiagency network developed to support the understanding and use of Evidence Based Practices for individuals affected by Autism Spectrum Disorder across the state.

CAPTAIN is dedicated to the following:

- Providing statewide access to trainings and resources in Evidence Based Practices (EBPs) that are culturally sensitive, family centered, cost effective, and competency based.

Quick Links
- National Professional Development Center On Autism Spectrum Disorders
- AFIRM ASD Learning Modules
- National Autism Center
- Autism Internet Modules
Since 2007, the National Professional Development Center on Autism Spectrum Disorder (NPDC) has worked to develop free professional resources for teachers, therapists, and technical assistance providers who work with individuals with ASD. Resources include detailed information on how to plan, implement, and monitor specific evidence-based practices.
WHAT ARE EVIDENCE-BASED PRACTICES?

Many interventions exist for autism spectrum disorder (ASD). Yet, scientific research has found only some of these interventions to be effective. The interventions that researchers have shown to be effective are called evidence-based practices (EBPs). One reason for using EBPs is because, by law, teaching practices must be based on evidence of effectiveness.

WHAT EBPS HAVE BEEN IDENTIFIED?

The NPDC used a rigorous criteria to classify 27 focused interventions as EBPs in 2014. The 27 identified EBPs have been shown through scientific research to be effective when implemented correctly with students with ASD. The NPDC is currently developing online modules, called AIVM, for each of the 27 identified practices.

You can currently access online modules for the original 24 evidence-based practices on the Autism Internet Modules (AIM) website from the Ohio Center for Autism and Low Incidence (OCALI).

Select an EBP below to access a brief about the practice. Each brief provides an overview and general description, step-by-step instructions of implementation, an implementation checklist, and the evidence-base which includes the list of references that demonstrate the practice meets the NPDC’s criteria.

To print out a specific section of a brief, download the EBP and open using Adobe Reader. You can navigate to different sections of the brief using the menu to the left while viewing in Adobe Reader.

**EVIDENCE-BASED PRACTICES**

<table>
<thead>
<tr>
<th>Antecedent-based Intervention (ABI)</th>
<th>Naturalistic Instruction (NI)</th>
<th>Self-management (SM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cognitive Behavioral Intervention (CBI)*</td>
<td>Parent-implemented Instruction (PIE)</td>
<td>Social Narratives (SN)</td>
</tr>
<tr>
<td>Differential Reinforcement of Alternative, Incompatible, or Other Behavior (DRIA/SCI)</td>
<td>Peer-mediated Instruction and Intervention (PMII)</td>
<td>Social Skills Training (SST)*</td>
</tr>
<tr>
<td>Discrete Trial Teaching (DTT)</td>
<td>Picture Exchange Communication System (PECS)</td>
<td>Previously Social Skills Groups (PSSG)*</td>
</tr>
<tr>
<td>Exercise (EX)*</td>
<td>Prompting (PP)</td>
<td>Structured Play Group (SPG)*</td>
</tr>
<tr>
<td>Extinction (EX)</td>
<td>Reinforcement (R+)</td>
<td>Task Analysis (TA)</td>
</tr>
<tr>
<td>Functional Behavior Assessment (FBA)</td>
<td>Response Interruption/Redirection (RIR)</td>
<td>Technology-aided Instruction and Intervention (TAII)*</td>
</tr>
<tr>
<td>Functional Communication Training (FCT)</td>
<td>Scripting (SC)*</td>
<td>Previously</td>
</tr>
<tr>
<td>Modeling (MO)*</td>
<td>Video Modeling (VM)</td>
<td>Speech Generating Devices</td>
</tr>
<tr>
<td>* Indicates new EBPs identified in 2014 review. Practice briefs are not available for these practices, but are currently being developed as part of AIVM.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See the working definitions of each EBP in this excerpt from the 2014 Evidence-Based Practices for Children, Youth, and Young Adults with Autism Spectrum Disorder report. The full report is available here.
NPDC-ASD Brief Packages For Evidence Based Practices (EBPs)

Brief Package ensures fidelity and consists of:

• Overview of practice
• Evidence-base for practice
• Steps for implementation
• Implementation Checklist
• Data Collection Forms
Evidence-Based Practice Brief: Video Modeling

This evidence-based practice brief on video modeling includes the following components:

1. Overview, which gives a quick summary of salient features of the practice, including what it is, who it can be used with, what skills it has been used with, settings for instruction, and additional literature documenting its use in practice
2. Steps for Implementation, detailing how to implement the practice in a practitioner-friendly, step-by-step process
3. Implementation Checklist, to be used to monitor fidelity of the use of the practice
4. Evidence Base Summary, which details the NPDC-ASD criteria for inclusion as an evidence-based practice and the specific studies that meet the criteria for this practice
Module: Video Modeling

Steps for Implementation: Video Modeling

These steps for implementation were adapted from:


The implementation process for video modeling is similar for each type of video modeling strategy (i.e., basic video modeling, video self-modeling, point-of-view modeling, video prompting). Ten steps are outlined below which describe how video modeling is implemented with learners with ASD.

Step 1. Targeting a Behavior for Teaching

In Step 1, teachers/practitioners focus on identifying a behavior for the learner with ASD to acquire and then clearly describe it so that accurate data can be collected throughout the implementation process.
Module: Video Modeling

Implementation Checklist for Video Modeling

The implementation checklist steps were adapted from:


Instructions: The Implementation Checklist includes each step in the process of implementing video modeling. Please complete all of the requested information including the site and state, individual being observed, and the learner's initials. To assure that a practice is being implemented as intended, an observation is always preferable. This may not always be possible. Thus, items may be scored based on observations with the implementer, discussions and/or record review as appropriate. Within the table, record a 2 (implemented), 1 (partially implemented), 0 (did not implement), or NA (not applicable) next to each step observed to indicate to what extent the step was implemented/addressed during your observation. Use the last page of the checklist to record the target skill, your comments, whether others were present, and plans for next steps for each observation.

Site: ____________________________ State: ____________________________

Individual(s) Observed: ____________________________ Learner's Initials: ____________________________

Skills below can be implemented by a practitioner, parent, or other team member

<table>
<thead>
<tr>
<th>Observation Date</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer's Initials</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Planning (Steps 1 – 6)

Step 1. Targeting a Behavior for Teaching

1. Identify a target behavior that is important to be taught.

   Score**

2. Define and describe the target behavior so that it is observable and measurable.
Autism Focused Intervention Resources and Modules: AFIRM

- Designed to help you learn the step-by-step process of planning for, using, and monitoring EBPs with learners with ASD from birth to 22 years of age

- In each module:
  - Key components of an EBP including various ways to use it
  - Behaviors and skills that can be addressed using the practice
  - A step-by-step process for applying the practice
  - Downloadable resources
Professional Development Certificate

Certificate Track
- Case examples demonstrating the use of the EBP
- Multimedia presentation
- Pre-test required
- Post-assessment required
- Evaluation required

Non-Certificate Track
- Case examples demonstrating the use of the EBP
- Multimedia presentation
- Pre-test required
- Post-assessment optional
- Evaluation optional
Available EBP Modules

**Antecedent-based Intervention**
- Hide description
Antecedent-based interventions can be used to decrease an identified interfering behavior and increase engagement by modifying the environment.

**Time to complete:**
This module will take approximately 1.5 - 2 hours to complete.

**Discrete Trial Training**
- Hide description
Discrete trial training can be used to teach a new skill or behavior.

**Time to complete:**
This module will take approximately 2 - 3 hours to complete.
SELF LEARNING MODULES FOR TODDLERS!
NPDC-ASD Early Start Website
http://asdtoddler.fpg.unc.edu

Promoting evidence-based practices
EBPs for young children, ages birth to 3, with
Autism Spectrum Disorder (ASD)
Use these Quick Links on the CAPTAIN website to access these EBP resources!

www.captain.ca.gov

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How Can I Help Support People In Implementing These EBPs With Fidelity?
Coaching Principles and Practices

## Training Outcomes Related to Training Components

<table>
<thead>
<tr>
<th>Training Components</th>
<th>Training Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Knowledge of Content</td>
</tr>
<tr>
<td>Presentation/Lecture</td>
<td>10%</td>
</tr>
<tr>
<td>Plus Demonstration in Training</td>
<td>30%</td>
</tr>
<tr>
<td>Plus Practice in Training</td>
<td>60%</td>
</tr>
<tr>
<td>Plus Coaching/Admin Support/Data Feedback</td>
<td>95%</td>
</tr>
</tbody>
</table>

Joyce & Showers, 2002
Qualities of an Effective Coach

- Competent
- Focuses on others perspectives/interests
- Support others ideas objectively without immediate judgment
- Collaborates to determine which evidence based practices guide the work with the student
- Addresses aspects of the issues/concerns
- Adapts to take advantage of a spontaneous learning situation
- Creates a caring relationship in which
  - challenges are viewed as opportunities for growth
  - successes are celebrated
Underlying Assumptions

- Practitioners have good skills but can increase their skills.
- Practitioners establish new skills or refine existing skills through self evaluation.
- Practices can change using data and observational feedback.
- Coaching is a cyclical process.
Open vs. Closed Questions

Open Question Starters
- Tell
- How
- Describe
- What
- Why

Closed Question Starters
- Are
- Do
- Have
- Should
- Will
- Would
- Can

*Open questions are incompatible with closed questions*
Coach

- Engages in focused conversation
- Observes
- Uses questioning and communication skills to empower the partner to reflect on practices
- Helps partner to incorporate evidence based practices
- Shares knowledge, expertise and guidance
- Provides direction in
  - Targeting evidence-based practice
  - Identifying data collection methods
  - Interpreting performance
# Coaching Log

**Pre Observation Conference**

<table>
<thead>
<tr>
<th>Date:</th>
<th>Focus/Concern:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time:</td>
<td></td>
</tr>
<tr>
<td>During:</td>
<td></td>
</tr>
<tr>
<td>Length:</td>
<td></td>
</tr>
<tr>
<td>Setting:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Target</th>
<th>Revisited Target</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Observable Behavior:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult:</td>
</tr>
<tr>
<td>Student:</td>
</tr>
</tbody>
</table>

**Observation**

<table>
<thead>
<tr>
<th>Date:</th>
<th>Focus/Concern:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time:</td>
<td></td>
</tr>
<tr>
<td>Length:</td>
<td></td>
</tr>
<tr>
<td>Setting:</td>
<td></td>
</tr>
</tbody>
</table>

**Notes for Discussion:**

**Post Observation Conference**

<table>
<thead>
<tr>
<th>Date:</th>
<th>Mastery Achieved:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time:</td>
<td>Yes</td>
</tr>
<tr>
<td>During:</td>
<td></td>
</tr>
<tr>
<td>Length:</td>
<td></td>
</tr>
<tr>
<td>Setting:</td>
<td></td>
</tr>
</tbody>
</table>

**Maintenance Achieved:**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

**Future Plans/Notes:**

**Communication Skills Reminders:**

- Reflects partner’s words
- Uses open questions
- Reflects partner’s words
- Clarifies words and feelings
- Takes turns, no interrupting
- Uses encouragement
Coaching Process

1. Pre-observation Conference
2. Observation
3. Post-Observation Conference
Pre-observation Conference
Inviting Partner’s Role

- State the purpose
- Negotiate coaching target
- Agree on observable partner and student behavior
- Negotiate data recording
- Negotiate dates/times for observation and post-observation conference
Pre-observation Conference
Coach’s Role

- Complete coaching log
- Guide selection of coaching target
- Verify understanding through questioning
- Introduce mastery and maintenance criteria
- Identify and confirm the recording method
- Summarize the pre-observation conference
- Negotiate dates/times for observation and post-observation conference
Video Example- Pre-Observation Conference

http://autismmpdc.fpg.unc.edu/coaching/videos/igloo
Practice Pre-Observation Conference

COACHING LOG

Inviting Partner: ____________________________  Coach: ____________________________
EBP/GAS/Program Target: ____________________________  Lesson: ____________________________

PRE OBSERVATION CONFERENCE

Date: ____________  Time: ____________
During: ____________
Length: ____________  Setting: ____________

Focus/Concern:

Observable Behavior:

Adult:

Student:

Data Collection Method:

Adult Mastery Criterion: ____________  %

Maintenance Criterion: ____________  Times

New Target

Revisited Target
Observation
Inviting Partner’s Role

- Provide a location for the coach to view the target behavior
- Provide observation space
- Create barrier-free access to data collection area
- Provide and test recording materials and take sample data
- Prepare students for coach’s arrival
- Prepare plan to be implemented if a student talks to the coach
- Begin lesson at agreed upon time
- Do not signal or include coach in lesson
Observation
Coach’s Role

Etiquette

- Arrive and leave at the agreed upon time
- Follow the agreed upon script if a student attempts to engage coach
- Do not signal or talk to the partner during observation
- Do not participate in lesson

Activities

- Collect data
- Summarize data
- Complete observation portion of the coaching log
- Provide copy of data to IP before postobservation conference
Post-observation Conference
Inviting Partner’s Role

- Review data and data summary collected during observation
- Make self-evaluative statements based on the data
- Suggest methods to enhance skills
- Finalize action to improve performance
- Negotiate date/time for next preobservation conference
Post-observation Conference
Coach’s Role

- Present data, data summary, and notes
- Solicit self-evaluative statements
- Suggest/prompt IP to develop solutions
- Suggest/prompt IP to develop a plan of action based on the data
- Provide feedback on the IP’s performance
- Invite discussion and sharing of ideas
- Decide on future plans
- Schedule next pre-observation conference/observation
- Complete coaching log
Coaching Log

POST OBSERVATION CONFERENCE

Date: ___________
Time: ___________
During: ___________
Length: ___________
Setting: ___________

MASTERY ACHIEVED:
☐ YES  ☐ NO

NOTES:

COMMUNICATION SKILLS

MAINTENANCE ACHIEVED:
☐ YES  ☐ NO

NOTES:

FUTURE PLANS/NOTES:

COMMUNICATION SKILLS REMINDERS

* Reflects partner’s words
* Uses open questions
* Reflects partner’s words
* Clarifies words and feelings
* Takes turns; no interrupting
* Uses encouragement
Video Example: Post-Observation Conference

http://autismmpdc.fpg.unc.edu/coaching/videos/igloo
COACHING LOG

Inviting Partner: Ellen  
Coach: Kate
EBP/GAS/Program Target: self management 
Lesson: small group-igloo

PRE OBSERVATION CONFERENCE
Date: Jun 1, 2013
Time: 10 am
During: 
Length: 5 min
Setting: office
New Target: ☐  
Revised Target: ☐

FOCUS/CONCERN:
Logan’s need for assistance makes it difficult for teacher to focus on rest of group. Concerns about Logan’s ability to work independently during group time

DATA COLLECTION METHOD:
Logan’s request for assistance and the teacher’s response will be tracked during the observation

OBSERVABLE BEHAVIOR:

ADULT:
responses to request for help:
Ignore  
Assist prompt

STUDENT:
request for assistance

ADULT MASTERY CRITERION: %
MAINTENANCE CRITERION: %

MAINTENANCE CRITERION:

OBSERVATION
Date: Jun 1, 2013
Time: 10:30 am
During: 
Length: 5 min
Setting: small group

FOCUS/CONCERN:
Request for help:

Teacher behavior:
Ignore  
Assist prompt

NOTES FOR DISCUSSION:
visual systems that are currently in place: folder of pictures  
move teacher behavior toward prompting

POST OBSERVATION CONFERENCE
Date: Jun 1, 2013
Time: 11 am
During: 
Length: 10 min
Setting: office

MASTERY ACHIEVED: ☐ YES ☐ NO

COMUNICATION SKILLS:
Reflects partner’s words  
Uses open questions  
Reflects partner’s words  
Clarifies words and feelings  
Takes turns, no interrupting  
Uses encouragement

MAINTENANCE ACHIEVED: ☐ YES ☐ NO

FUTURE PLANS/NOTES:
Kate and Ellen will decide on next project through email discussion
Kate will help create materials to build a “mini schedule”
Kate will attend next small group lesson to help coach Ellen to use mini schedule and build product during introduction to the next small group project.
Video:
School Administrators Reflect on Coaching

https://www.youtube.com/watch?v=91GXpCOZPNA
Potential Barriers to Coaching

- Administrative Support
- Time
- Coaching Skills

*If these are not in place,*

*coaching is unlikely to succeed*
Some Tips:
Recruiting the Best Candidates

- Start with willing participants
- Ask for volunteers to work with you on this project
- Have past recipients help to recruit new recipients
- Test your new coaching skills and roll out on a trusted recipient who will give you feedback and help you develop too
Some Tips: Set Expectations

- Involve Administration
- Have a three way meeting with Admin, Coach and Recipient
  - Admin states the goals of coaching and expectations of both coach and recipient
  - Have participants make a commitment (written)
- Clarify the relationship
  - Not evaluative, rather supportive
Coaching Tools

- CAPTAIN Classroom Observation Form
- CAPTAIN EBP Survey
- EBP Trainings and/or AFIRM Modules
- Briefs and Implementation checklists
- GAS goals
- Coaching logs
- Coaching Manual

www.captain.ca.gov
### Classroom Structure

<table>
<thead>
<tr>
<th>Description</th>
<th>2 (80 - 100% proficiency)</th>
<th>1 (60 - 80% proficiency)</th>
<th>0 (less 60%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom is clean, well organized and clutter free</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Areas of the classroom are clearly labeled and/or structured so that students and staff know what expectations are within each area</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students are seated in a way that minimizes distractions and maximizes focus</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Visual Supports

<table>
<thead>
<tr>
<th>Description</th>
<th>2 (80 - 100% proficiency)</th>
<th>1 (60 - 80% proficiency)</th>
<th>0 (less 60%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prominently displayed overall classroom schedule that indicates both staff and student activities is posted where anyone can view</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual student schedules are created to support transitions and work completion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule is used in a way that reduces dependence on adult prompts and unnatural cues</td>
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<td></td>
</tr>
<tr>
<td>Schedule use is consistent throughout the day and in a variety of settings (where appropriate)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Changes in schedule are taught and implemented when necessary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visual supports are matched to the student’s ability and skills</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work systems are used to teach students how to begin, work through, complete and then transition to next task independently</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number and type of work/tasks increase with student’s ability to stay on task and follow the work system</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Functional Communication and Positive Behavior Supports

<table>
<thead>
<tr>
<th>Description</th>
<th>2 (80 - 100% proficiency)</th>
<th>1 (60 - 80% proficiency)</th>
<th>0 (less 60%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functional communication systems are set up to provide opportunities for student to make requests, express choice, and respond to adult instructions (without substantial prompting)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classroom routine promotes opportunities for student to communicate using his/her “own” communication system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student communication is responded to promptly by staff in an appropriate manner</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Functional communication systems are conventional so peers and “untrained” listeners can comprehend the student</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Help, Wait an Break are being taught systematically</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prevention strategies such as choice, pre-warning/pre-teaching, opportunities for movement, selection of rewards by student and use of student specific accommodations are used to prevent behavior problems</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A sufficient ratio of positive feedback to correction feedback is used (4:1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response interruption/redirection is used to address behavior problems early in the escalation cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Teaching Strategies

<table>
<thead>
<tr>
<th>Description</th>
<th>2 (80 - 100% proficiency)</th>
<th>1 (60 - 80% proficiency)</th>
<th>0 (less 60%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A variety of evidenced based instructional strategies are used and are based on the skills being taught and the individual needs of the student (list EBPs below)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Systematic and planned instruction is linked to the student’s IEP goals and areas of identified need and skills are consistently taught across instructors and settings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reinforcement is being delivered in a timely manner and is based on student preference assessments</td>
<td></td>
<td></td>
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<tr>
<td>Reinforcement systems are visually mediated (token systems, behavior contracts, first/then structure, etc.) when appropriate</td>
<td></td>
<td></td>
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<tr>
<td>Prompt hierarchies are being correctly implemented and responses are documented to reduce prompt dependence</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data is being collected and is used to inform instruction and monitor student outcomes</td>
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</tbody>
</table>
# CAPTAIN - Training & Confidence Survey

**Name:**

**Position:**

## Training Received

<table>
<thead>
<tr>
<th>Training Received</th>
<th>Level of Confidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Training</td>
<td>Low</td>
</tr>
<tr>
<td>Hand-on training</td>
<td>Medium</td>
</tr>
<tr>
<td>Only Introduction</td>
<td>High</td>
</tr>
</tbody>
</table>

## Self Evaluation of Confidence

- **Low:** Minimal skills or knowledge on topic
- **Medium:** Some skills or knowledge on topic
- **High:** Confident implementing with a variety of students
- **Master:** Feel I could train, coach and support others

## Training Subjects

- Autism Spectrum Disorder: Characteristics, learning styles and how disability is identified
- Evidence Based Practices: What Are EBPs, Overview of the EBPs for ASD
- Assessment measures and strategies specific to students with ASD and characteristics of ASD
- Antecedent Based Interventions (ABI)
- Behavioral Momentum Procedures (BMP)
- Comprehensive Behavioral Treatments for Young Children/Intensive Behavioral Intervention
- Differential Reinforcement (DRO/DRD/DRA)
- Discrete Trial Training (DTT)
- Extinction/Behavioral Extinction
- Functional Behavior Assessment (FBA)
- Functional Communication Training (FCT)
- Modeling and Scripting
- Naturalistic Behavioral Strategies (e.g., PRT)
- Parent Implemented Intervention and Parent Training (PI)
- Picture Exchange Communication System (PECS)
- Peer Mediated Interventions (PMI)
- Prompting and Prompt Fading (Including Time Delay and Prompt Hierarchy)
- Reinforcement (R+) and Token Economies
- Response Interruption and Redirection
- Self Management Training (SMT)
- Social Narratives, Story Based Interventions
- Social Skills Groups and Structured Play Groups
- Task Analysis
- Technology Assisted Instruction (TAI)
### Training Outcomes Related to Training Components

<table>
<thead>
<tr>
<th>Training Components</th>
<th>Knowledge of Content</th>
<th>Skill Implementation</th>
<th>Classroom Application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Presentation/Lecture</strong></td>
<td>10%</td>
<td>5%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Plus Demonstration in Training</strong></td>
<td>30%</td>
<td>20%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Plus Practice in Training</strong></td>
<td>60%</td>
<td>60%</td>
<td>5%</td>
</tr>
<tr>
<td><strong>Plus Coaching/Admin Support Data Feedback</strong></td>
<td>95%</td>
<td>95%</td>
<td>95%</td>
</tr>
</tbody>
</table>

Joyce & Showers, 2002
Using EBPs in Your Inservice Trainings

**Dissemination:**
- Targeted distribution of information and intervention materials to an audience

**Implementation:**
- Use of strategies adopted by an identified group of practitioners, performed with fidelity
The study of methods that influence the integration of evidence-based interventions into practice settings

Uses common frameworks, principles, and best practices to study and improve implementation of evidence-based or evidence-informed practices in the real world

http://nirn.fpg.unc.edu
What are the research informed practices we should use in professional development?

1. Selection procedures of content and trainees
2. Core components of the training are defined
3. Pre Assessment of core components
What are the research informed practices we should use in professional development?

4. Discussion opportunities included throughout the presentation

5. Demonstrations included within the training (e.g., video and/or live modeling/demonstrations)

6. Practice opportunities with feedback (e.g., hands on practice, role playing)
What are the research informed practices we should use in professional development?

7. Post Assessment of Core Components
   - Use this data to revise training/identify gaps to improve effectiveness of training
   - Share the data with appropriate coaching staff and project leadership team
   - Analyze Post Assessment results and determine what changes are needed to improve effectiveness of the professional learning event and/or drive the subsequent technical assistance support, monitoring and scaffolding
What are the research informed practices we should use in professional development?

8. Provide follow up coaching using Implementation Checklists to support fidelity of EBP

9. Identify and use data that directly links use of EBPs to student outcomes (e.g. GAS goals)
Case Study: Discuss Steps 1-3

Two CAPTAIN Cadre trainers got together to discuss which EBP they wanted to develop a workshop for. They spent a considerable amount of time in their planning meeting discussing the teachers in their district, what seems to be working and not working and if any of the teachers had expressed any interest in learning more about a specific EBPs which led them to ultimately choose Visual Supports.

They proceeded to give the training and at the opening they explained that this training was going to cover the EBP known as Visual Supports. They also asked for a raise of hands to see who had heard of or knew about the EBP Visual Supports.

In this Case Study example:

 francais Did the trainers do steps 1 – 3?
 francais If not, which step did they leave out? How could they improve their process?
How Did CAPTAIN Leaders Apply These Practices Today?

Step 1: Needs Assessment: We looked at the CAPTAIN Survey data

Step 2: Core Components: We identified core components and designed this workshop

Step 3: Pre Assessment: We developed the pre assessment questions based on the core components of this training

Steps 4 – 6: Discussion, Demonstration and Practice with Feedback: We infused these into this workshop to allow participants to develop knowledge and skills
How Did CAPTAIN Leaders Apply These Practices Today?

Step 7: Post Assessment: We will use the Post Assessment data from this workshop to provide additional support and we will change any components that data reveal are necessary for future workshops.

Step 8: Follow Up Coaching and Support: We have developed the CAPTAIN Trainers Checklist to support your fidelity and self evaluation in the future.

Step 9: Data on Outcomes: We will include questions on training practices in Annual CAPTAIN Survey and compare results year to year.
## CAPTAIN Trainers Checklist

### PREPLANNING CHECKLIST FOR DESIGNING EVIDENCE BASED PRACTICE PROFESSIONAL DEVELOPMENT

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>Conducted Needs Assessment of Audience</td>
</tr>
<tr>
<td>Step 2</td>
<td>Identified Core Components (Learning Objectives)</td>
</tr>
<tr>
<td>Step 3</td>
<td>Developed Pre Assessment to Evaluate Knowledge of Core Components</td>
</tr>
<tr>
<td>Step 4</td>
<td>Created Workshop to Include Multiple Opportunities for Discussion about the Core Components</td>
</tr>
<tr>
<td>Step 5</td>
<td>Created Workshop to Include Multiple Opportunities for Demonstration (video and/or live modeling)</td>
</tr>
<tr>
<td>Step 6</td>
<td>Created Workshop to Include Multiple Opportunities to Practice with Feedback related to the Core Components</td>
</tr>
<tr>
<td>Step 7</td>
<td>Developed Post Assessment to Evaluate Knowledge of Core Components Inclusive of Plans for Addressing any Reteaching or Modifications to the Training That Are Indicated by Data</td>
</tr>
<tr>
<td>Step 8</td>
<td>Established Coaching Model that Emphasizes Fidelity of Use of Newly Learned Practice(s)</td>
</tr>
<tr>
<td>Step 9</td>
<td>Developed Data Systems to Link Use of Training Content to Student Outcomes</td>
</tr>
</tbody>
</table>

### SUMMARY DATA FROM PRE AND POST ASSESSMENTS

<table>
<thead>
<tr>
<th></th>
<th>Pre Assessment Average</th>
<th>Post Assessment Average</th>
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<tbody>
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</tbody>
</table>

### Commonly Missed Questions:

### Reteaching/Coaching Notes:

### Revisions Needed:
Quiz

- Bootcamp Objectives Kahoot
Wrap Up

Unless you're using evidence-based procedures, I can't hear a word you're saying.