

Using Evidence-Based Strategies to Support Social Communication Skills of Young Children

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Today's Presenters



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Today's Moderators





Michaelene M. Ostrosky Head and Goldstick Family Scholar, Special Education, University of Illinois

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Survey & Certificate

This webinar has ILLINOIS EI credit as well as ILLINOIS STATE LICENSURE* credit

*OT, PT, SLP, SW, Nutrition/Dietitian



If you joined as a group, each individual will need to complete the unique survey for credit

Chat



Who do we have participating with us today?

- A. Parent/caregiver
- **B. Early Interventionist**
- C. CFC Staff
- **D.** Administrators
- E. Other (list in Chat Room)





If you are an early interventionist, what is your primary discipline?

- A. Developmental Therapist
- **B.** Speech/Language Pathologist
- C. Physical Therapist
- **D. Occupational Therapist**
- E. Other (identify in chat box)





Agenda

- Who we are
- Objectives
- Social Communication Skills
- Evidence-Based Naturalistic Teaching Strategies
- Coaching Parents



About Us...





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Objectives

- Social-communication challenges
- Evidence-based naturalistic strategies
- Collaborating with families
- Training and coaching families





Social Communication Skills

Social communication skills refer to the skills needed to communicate and engage with others



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During the early childhood years, responsive adults facilitate the development of children's communication skills



Naturalistic Teaching Strategies

- Collection of strategies based on applied behavior analysis principles
- Designed to encourage specific behaviors based on a child's interests
- Used within typical settings, activities, or routines



Naturalistic Teaching Strategies

• Evidence-based Strategies

• Effective in addressing social, communication, behavior, play, and academic skills of children birth-11 (Wong et al., 2014)

Evidence-based Strategies

Table 7. Working Definitions for EBPs Empirical Support Single Evidence-Based Group Case Practice Definition (n) (m) Antecedent-based Arrangement of events or circumstances that precede the occurrence of an interfering behav-0 32 intervention (ABI) ior and designed to lead to the reduction of the behavior. Instruction on management or control of cognitive processes that lead to changes in overt Cognitive behavioral 3 1 intervention (CBI) behavior. Provision of positive/desirable consequences for behaviors or their absence that reduce Differential reinforcement the occurrence of an undesirable behavior. Reinforcement provided: a) when the learner is engaging in a specific desired behavior other than the inappropriate behavior (DRA), b) when of Alternative. 0 26 the learner is engaging in a behavior that is physically impossible to do while exhibiting Incompatible, or Other Behavior (DRA/1/O) the inappropriate behavior (DRI), or c) when the learner is not engaging in the interfering behavior (DRO). Instructional process usually involving one teacher/service provider and one student/client Discrete trial teaching and designed to teach appropriate behavior or skills. Instruction usually involves massed trials. 0 13 (DTT) Each trial consists of the teacher's instruction/presentation, the child's response, a carefully planned consequence, and a pause prior to presenting the next instruction. Increase in physical exertion as a means of reducing problem behaviors or increasing appropri-Exercise (ECE) 2 3 ate behavior. Withdrawal or removal of reinforcers of interfering behavior in order to reduce the occurrence of that behavior. Although sometimes used as a single intervention practice, extinction often Extinction (EXT) 0 11 occurs in combination with functional behavior assessment, functional communication training, and differential reinforcement. Systematic collection of information about an interfering behavior designed to identify Functional behavior functional contingencies that support the behavior. FBA consists of describing the interfering 0 10 assessment (FBA) or problem behavior, identifying antecedent or consequent events that control the behavior, developing a hypothesis of the function of the behavior, and/or testing the hypothesis. Replacement of interfering behavior that has a communication function with more appropri-Functional communication ate communication that accomplishes the same function. FCT usually includes FBA, DRA, and/ 0 12 training (FCT) or EX. Demonstration of a desired target behavior that results in imitation of the behavior by the Modeling (MD) learner and that leads to the acquisition of the imitated behavior. This EBP is often combined 1 4 with other strategies such as prompting and reinforcement. Intervention strategies that occur within the typical setting/activities/routines in which the learner participates. Teachers/service providers establish the learner's interest in a learning Naturalistic intervention event through arrangement of the setting/activity/routine, provide necessary support for the 0 10 OND learner to engage in the targeted behavior, elaborate on the behavior when it occurs, and/or arrange natural consequences for the targeted behavior or skills. Parents provide individualized intervention to their child to improve/increase a wide variety Parent-implemented of skills and/or to reduce interfering behaviors. Parents learn to deliver interventions in their 8 12 intervention (PII) home and/or community through a structured parent training program. Typically developing peers interact with and/or help children and youth with ASD to acquire new behavior, communication, and social skills by increasing social and learning opportunities Peer-mediated instruction within natural environments. Teachers/service providers systematically teach peers strategies 0 15 and intervention (PMII) for engaging children and youth with ASD in positive and extended social interactions in both



teacher-directed and learner-initiated activities.

Environmental Arrangement





The i-PiCS Program



The i-PiCS Program





The i-PiCS Program



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The i-PiCS Program



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What do you think?

Which action is most likely to encourage communication?

- a. Making sure the child gets enough playtime outside
- b. Eating breakfast with the child
- c. Using "baby talk" to make language easier for the child
- d. Withholding preferred objects from a child until he or she asks for them



Environmental Arrangement

- Purpose: setting up opportunities for communication
- Environmental arrangement is best used in conjunction with the other naturalistic strategies

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Meadan et al., 2014





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Meadan et al., 2014

What do you think?

Which is the best example of teaching communication skills?

- a. When the child is playing with a favorite toy, the parent smiles and says or signs, "Good job."
- b. The parent places a favorite toy out of reach. When the child looks up at the toy, but does not request it, the parent says or signs, "Toy."
- c. When the parent realizes that the child wants a toy but the child does not ask, so the parent gives the child the toy and says, "Here you go."
- d. The parent gives the child a "high-five" when the child follows directions.











Modeling

Modeling is a simple strategy in which you use demonstrations to teach the child **new** words, phrases, signs, or behaviors you want the child to imitate while you are doing activities she or he really enjoys.















Example





Example







Modeling

Purpose: Increasing imitation of communication skills




Modeling

Purpose: Increasing imitation of communication skills

Motivating the child to imitate you

Prompting the child to communicate



Questions?



What do you think?

Which of the following is an example of a good direction that is likely to increase communication?

- a. "Tell me what you want."
- b. "Put the ball in the toy box."
- c. "Give me a hug."
- d. "Eat your banana."









Increasing use of developing communication skills through verbal prompting.





Increasing use of developing communication skills through verbal prompting.

The mand-model strategy is similar to modeling and follows the same steps, but the adult presents a verbal prompt as:

<u>A question (e.g., "What do you want?")</u> <u>A choice (e.g., "...this or that?")</u> <u>A mand/direction (e.g., "Say, 'more.'")</u>





















Example





Example







Purpose: Increasing use of developing communication skills





Purpose: Increasing use of developing communication skills



Developing spontaneous communication skills



Using known words or signs



Increasing independent communication skills



What do you think?

What is true about giving a child time to initiate communication?

You should give the child *a lot* of extra time

- a. <u>before</u> and <u>after</u> you demonstrate the correct response or ask a question.
- **b.** <u>after</u> you have already demonstrated the correct response or asked a question.
- **c.** <u>**before**</u> you demonstrate the correct response or ask a question.
- d. You should only give a child a lot of extra time if you are trying to teach in completely unfamiliar situations.









Time delay is a strategy that encourages children to initiate communication.





Time delay is a strategy that encourages children to initiate communication.

Time delay is most successful when used in familiar routines. The parents:

- •Establish joint attention with their child,
- Look expectantly at their child, and
 Wait for their child to initiate a request or comment.



















Example





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Example







Purpose: Increasing initiation of communication







Purpose: Increasing initiation of communication











Use facial expressions and body language.



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Use facial expressions and body language.



Use in combination with **environmental arrangement** and **known** words/signs.



Be patient!

Questions?



Empowering Parents

 Parents are experts on their children and their families believes, resources, and needs

 IDEA supports parent involvement and builds an expectation that parents are advocates for their children





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Parents and Young Children

- Parents seek access to research-based interventions (Boyd, Odom, Humphreys, & Sam, 2010)
- Parent-implemented interventions for young children with disabilities are effective (e.g., Kaiser, Hancock, & Nietfeld, 2000; Schultz, Schmidt, & Stichter, 2011)

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Your Experience

Please answer "Yes or No" if you have had experience coaching parents.





Your Experience

Please answer "Yes or No" if you have had experience coaching parents **from a distance**.





Adult Learning Theory

✓ Introduce
✓ Illustrate
✓ Practice
✓ Evaluate
✓ Reflect
✓ Mastery







Coaching Framework





Meadan et al., in press

Coaching Framework







Meadan et al., in press

Coaching Framework





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Meadan et al., in press

Resources

Table 1. Resources for Online Family Education

Resource	URL	Description	Issues affecting feasibility for parents	Implementation considerations
iPiCS	Available by contacting the author	The iPiCS program utilizes online modules and videoconferencing to teach and coach parents how to use environmental arrangement, modeling, mand-model, and time delay	 Parent has to create a login Modules are video- and activity-based; parents upload videos and worksheets Modules are self-paced and feature examples of parents implementing strategies with young children in the family home 	 Fully created modules Intended to be used with a videoconferencing/ coaching component Manualized for practitioners Targets young children with ASD or developmental disabilities and communication delays
Autism Internet Modules (AIM)	www. autisminter netmodules.org	45 different online modules for learning about strategies such as prompting, social narratives, and sensory differences	 Parent has to create a login Examples in the modules are from parent and professional perspectives Although each module has a video, much of the content is reading-based 	 Fully created modules Targets children with ASD throughout the life span
Do2Learn	www.do2learn. com	Resources, activities, and guidance for teaching visual communication, behavioral regulation, and social skills	 Most resources are free, but some must be purchased Some examples are school-based, so parents may need examples of how to use the resource in the home setting Resources are easy to use and intuitive 	 Resources are simply listed and would need to be implemented within a broader online family education effort Need-based supports for academics, social skills, and behavior management
Autism Speaks	www .autismspeaks. org www .autismspeaks .org/what- autism/video- glossary	Has toolkits and a video library providing overviews of many common instructional strategies	 Many resources require creating an account with Autism Speaks Toolkits are reading-based Videos require Flash 	 Many of the toolkits are complete learning programs, but videos would have to be incorporated into an online family education program Focuses on children with ASD
Handspeak	www. handspeak.com	American Sign Language videos and resources	Video-based	 Videos would need to be incorporated into an online family education program Need-based supports for children using sign language

AFIRM http://afir m.fpg.unc. edu

N

Note: 1PICS - Internet-Based Parent-Implemented Communication Strategies; ASD - autism spectrum disorder.

Questions?



Contact Us Hedda Meadan, Ph.D., BCBA-D <u>meadan@illinois.edu</u> Jamie Pearson, M.A. jnpears2@illinois.edu



Survey & Certificate

You will receive email with survey from Early Intervention Training <u>Program (eitraining@illinois.edu)</u>



Must complete unique survey to get certificate

Certificate will be emailed after survey completion (within 24 hours)

Issues with survey or certificate, please contact us at <u>eitraining@illinois.edu</u> Thank you for supporting the children and families of Illinois!

Let's Keep in Touch!

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The Early Intervention Training Program at the University of Illinois

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