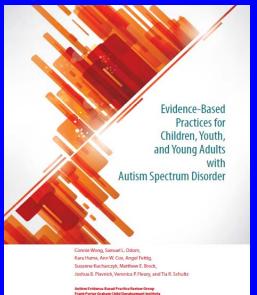
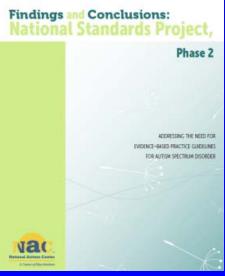


# What are Evidence-Based Practices (EBPs) for ASD?





Ann England, M.A., CCC-SLP-L Assistant Director, Diagnostic Center, CDE \*Co-Coordinator CAPTAIN

## Learning Outcomes

### Participant will be able to:

- Name the two resources for Evidence-based Practices for ASD
- Understand that CAPTAIN is the statewide implementation initiative for ASD
- Know that the CAPTAIN website and its social media are the statewide "clearinghouse" for ASD resources
- Articulate why EBPs need to implemented
- Understand why fidelity of EBP implementation is critical
- Name reliable ASD online EBP learning modules
- Know that there is an online learning course about ASD available at no cost

## **PRE-ASSESSMENT**





CAPTAIN Website Hosted by DCN!



#### Providing stationals access to Institute and resources in Evidence Based Processos (EDPs) there culturally sensitive. Family centered, cost effective, and competency based.

 Establishing supports that are locally based with insister of insisters at the local level.

 Emphasizing Inter In use EEP's in spont statistics in accessing the California Conversa Care Statis Statistics and developing College are Care Plantiness.

- Providing origining training, support, and technical assistance to implement ELP's and ensure fidelity of implementation.
- Supporting the development of local multispency collaborations to support considers use of LEP's.
- Providing an annual insining summit and a furian for collegal communication and support to CAPTAIN Cade inventions.
- Providing owb basist access to molectule and resources that are velocit and skips with cornel. EDI 5;

Providing information and automate to other information and provide groups who could be will from teaming more alread ESPs (E.g. Professional Organizations, Pagler Establish, Self Advances, Abert Health Providers)





Higgson Yeen CMT-2471 Lusterholt Lusen the Sign. An Early, (202) Effectors Early Olithonal Transfare Galant ABD Tother Interface ABD Tother Interface CMT-244 Network Description Contene, CDE Transfar Contenes for Description Contenes for

USC University Center For

Excellence in Developme Development (USC OCEDD

National Autom Circles Autom Informal Modules

CAPTAIN Hexards

110\* Transpo

EHOWCASE.

Other Lanzanza

Ask a Specialist - ASU CAPTAIN Caby

Autom Fact Sheets English/Spanish 

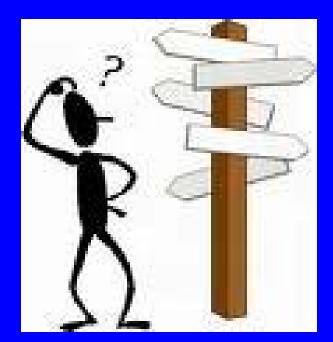
### Links to ASD Resources

CAPTAIN Social Media Links

www.captain.ca.gov autismebp@gmail.com

# How many results do you think you would get if you did a Google search for:

## "AUTISM TREATMENT"?



C Secure https://www.google.com/search?source=hp&q=AUTISM+TREATMENT&oq=AUTISM+TREATMENT&gs\_I=psy-ab.3..0I4.1686.4065.0.4



From Sensory Avoidant - To Sensory Tolerant

Ad www.thetouchpointsolution.com/ -

Touchpoints can relieve stress, manage anxiety & promote calm with neur... Start Living Better · Scholarship Program · Applied Neuroscience · Reduce ...

Autiem Thorany & Treatment - Rest Hyperbarie Thorany @CIHC

2 IMPORTANT ASD	<b>EBP RESOURCES</b>
National Professional Development Center (NPDC)	National Autism Center (NAC)

- 27 Evidence Based Practices
   2. AFIRM
   1. National Standards Project Report-Phase 2 NSP2
- 3. CSESA
- 4. EBPs for Young Children

### Released March 2014

http://autismpdc.fpg.unc.edu http://afirm.fpg.unc.edu http://csesa.fpg.unc.edu http://asdtoddler.fpg.unc.edu www.captain.ca.gov

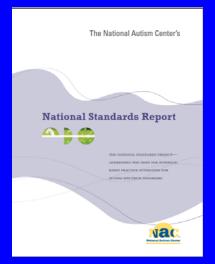
### Released April 2015

www.nationalautismcenter.org www.captain.ca.gov



A History of Systematic Reviews of the Literature for Evidence Based Practices (EBPs)

- In 2009, 11 Established Treatments
  - Reviewed by National Standards Project from National Autism Center, Phase 1 (NSP1)
  - Included research for the years: 1957-2007



www.nationalautismcenter.org

## A History of Systematic Reviews of the Literature for Evidence Based Practices (EBPs)

### In 2010, 24 EBPs

National Professional Development Center (NPDC)

- Included 10 years, 1997-2007

### In 2014, 27 EBPs

- 2<sup>nd</sup> review by NPDC
- 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

### http://autismpdc.fpg.unc.edu/



## A History of Systematic Reviews of the Literature for Evidence Based Practices (EBPs)

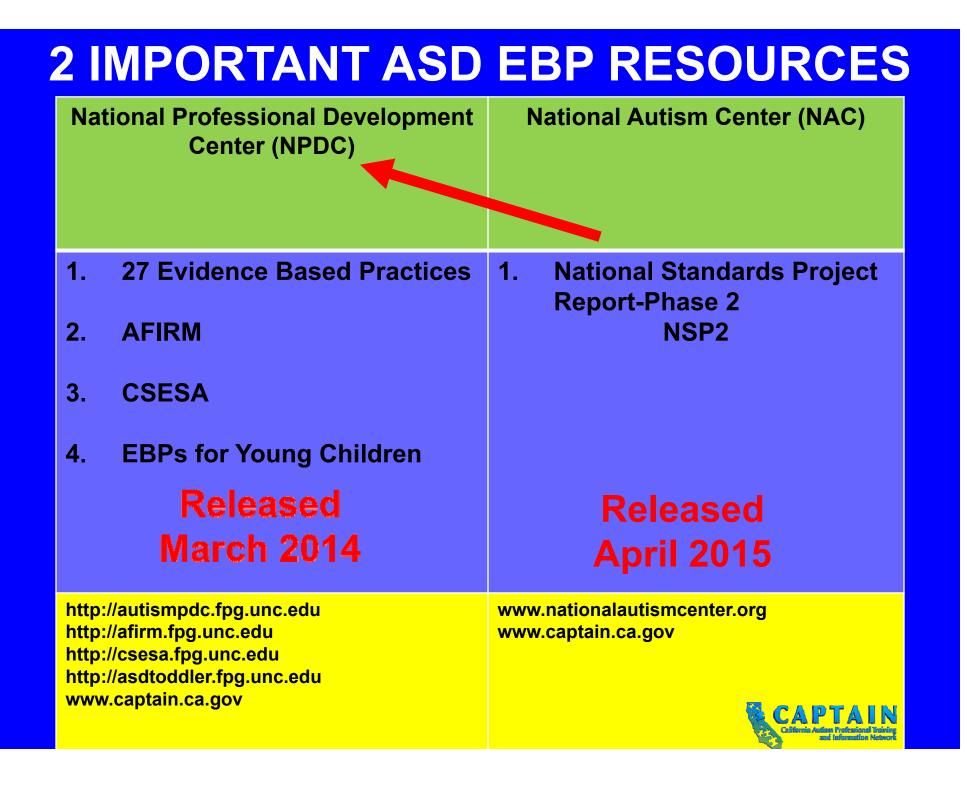
In 2015, 14 Established Interventions Under Age 22

 1 Established Intervention Age 22+



- 2<sup>nd</sup> Review by National Standards Project, National Autism Center, Phase 2 (NSP2)
- Reviewed studies published in peer reviewed journals between 2007 and February of 2012
  - 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

## www.nationalautismcenter.org



Evidence-Based Practices for Children, Youth, and Young Adults with Autism Spectrum Disorder

# March 2014

Connie Wong, Samuel L. Odom, Kara Hume, Ann W. Cox, Angel Fettig, Suzanne Kucharezyk, Matthew E. Brock, Joshua B. Plavnick, Veronica P. Fleury, and Tia R. Schultz

Autism Evidence-Based Practice Review Group Frank Porter Graham Child Development Institute University of North Carolina at Chapel Hill

www.captain.ca.gov http://autismpdc.fpg.unc.edu

## What's in this report?

Evidence-Based Practices for Children, Youth, and Young Adults with Autism Spectrum Disorder

2014

Connie Wong, Samuel L. Odom, Kara Hume, Ann W. Cox, Angel Fettig, Suzanne Kucharczyk, Matthew E. Brock, Joshua B. Plavnick, Veronica P. Fleury, and Tia R. Schultz

Autism Evidence-Based Practice Review Group Frank Porter Graham Child Development Institute University of North Carolina at Chapel Hill

## Definition of EBP (NPDC)



THE NATIONAL PROFESSIONAL DEVELOPMENT CENTER ON AUTISM SPECTRUM DISORDERS

## NPDC definition of an EBP:

"Focused intervention practices that have substantial evidence for effectiveness in promoting positive outcomes for learners with ASD"

## **NPDC Criteria for EBP**

THE NATIONAL PROFESSIONAL DEVELOPMENT CENTER ON AUTISM SPECTRUM DISORDERS

To be considered an EBP for individuals with ASD, efficacy must be established through peer-reviewed research in scientific journals using:

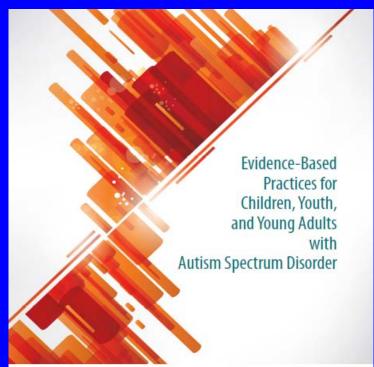
- At least two high quality experimental or quasi-experimental group design articles conducted by at least two different researchers or research groups
   OR
- At least five high quality single case design articles conducted by at least three different researchers or research groups having a total of at least 20 participants across studies

### OR

 A combination of at least one high quality experimental or quasiexperimental group design article and at least three high quality single case design articles conducted by at least two different research groups

## What are these 27 EBPs?

# The 27 EBPs are listed and defined in Table 7 of the report!



Connie Wong, Samuel L. Odom, Kara Hume, Ann W. Cox, Angel Fettig, Suzanne Kucharczyk, Matthew E. Brock, Joshua B. Plavnick, Veronica P. Fleury, and Tia R. Schultz

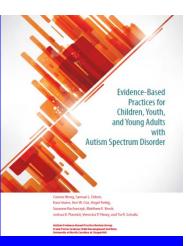
Autism Evidence-Based Practice Review Group Frank Porter Graham Child Development Institute University of North Carolina at Chapel Hill

### **27 Evidence – Based Practices (2014)**

**Antecedent-based interventions Cognitive behavioral intervention\* Differential reinforcement Discrete trial training** Exercise **Extinction** Functional behavior assessment **Functional communication training** Modeling Naturalistic interventions Parent-implemented intervention Peer-mediated instruction/intervention **Picture Exchange Communication System**<sup>™</sup>

**Pivotal response training** Prompting Reinforcement **Response interruption/redirection** Scripting Self-management **Social narratives** Social skills training Structured play groups Task analysis **Technology-aided** intervention/instruction Time delay Video modeling **Visual supports** 

Table 7. Working D	efinitions for EBPs		
		Empirica	l Support
Evidence-Based Practice	DEFINITIONS OF 27 EBPs Definition	Group (n)	Single Case (n)
Antecedent-based intervention (ABI)	Arrangement of events or circumstances that precede the occurrence of an interfering behav- ior and designed to lead to the reduction of the behavior.	0	32
Cognitive behavioral intervention (CBI)	Instruction on management or control of cognitive processes that lead to changes in overt behavior.	3	1
Differential reinforcement of Alternative, Incompatible, or Other Behavior (DRA/I/O)	Provision of positive/desirable consequences for behaviors or their absence that reduce 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 the learner is engaging in a behavior that is physically impossible to do while exhibiting the inappropriate behavior (DRI), or c) when the learner is not engaging in the interfering behavior (DRO).	0	26
Discrete trial teaching (DTT)	Instructional process usually involving one teacher/service provider and one student/client and designed to teach appropriate behavior or skills. Instruction usually involves massed trials. 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.	0	13
Exercise (ECE)	Increase in physical exertion as a means of reducing problem behaviors or increasing appropri- ate behavior.	3	3
Extinction (EXT)	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 occurs in combination with functional behavior assessment, functional communication train- ing, and differential reinforcement.	0	11
Functional behavior assessment (FBA)	Systematic collection of information about an interfering behavior designed to identify functional contingencies that support the behavior. FBA consists of describing the interfering 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.	0	10
Functional communication training (FCT)	Replacement of interfering behavior that has a communication function with more appropri- ate communication that accomplishes the same function. FCT usually includes FBA, DRA, and/ or EX.	0	12
Modeling (MD)	Demonstration of a desired target behavior that results in imitation of the behavior by the learner and that leads to the acquisition of the imitated behavior. This EBP is often combined with other strategies such as prompting and reinforcement.	1	4
Naturalistic intervention (NI)	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 event through arrangement of the setting/activity/routine, provide necessary support for the 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.	0	10
Parent-implemented intervention (PII)	Parents provide individualized intervention to their child to improve/increase a wide variety of skills and/or to reduce interfering behaviors. Parents learn to deliver interventions in their home and/or community through a structured parent training program.	8	12
Peer-mediated instruction and intervention (PMII)	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 within natural environments. Teachers/service providers systematically teach peers strategies for engaging children and youth with ASD in positive and extended social interactions in both teacher-directed and learner-initiated activities.	0	15



		Empirica	l Support
Evidence-Based Practice	DEFINITIONS OF 27 EBPs Definition	Group (n)	Single Case (n)
Picture Exchange Communication System (PECS)	Learners are initially taught to give a picture of a desired item to a communicative partner in exchange for the desired item. PECS consists of six phases which are: (1) "how" to commu- nicate, (2) distance and persistence, (3) picture discrimination, (4) sentence structure, (5) responsive requesting, and (6) commenting.	2	4
Pivotal response training (PRT)	Pivotal learning variables (i.e., motivation, responding to multiple cues, self-management, and self-initiations) guide intervention practices that are implemented in settings that build on learner interests and initiative.	1	1
Prompting (PP)	Verbal, gestural, or physical assistance given to learners to assist them in acquiring or engag- ing in a targeted behavior or skill. Prompts are generally given by an adult or peer before or as a learner attempts to use a skill.	1	32
Reinforcement (R+)	An event, activity, or other circumstance occurring after a learner engages in a desired behav- ior that leads to the increased occurrence of the behavior in the future.	0	43
Response interruption/ redirection (RIR)	Introduction of a prompt, comment, or other distracters when an interfering behavior is occur- ring that is designed to divert the learner's attention away from the interfering behavior and results in its reduction.	0	10
Scripting (SC)	A verbal and/or written description about a specific skill or situation that serves as a model for the learner. Scripts are usually practiced repeatedly before the skill is used in the actual situation.	1	8
Self-management (SM)	Instruction focusing on learners discriminating between appropriate and inappropriate behav- iors, accurately monitoring and recording their own behaviors, and rewarding themselves for behaving appropriately.	0	10
Social narratives (SN)	Narratives that describe social situations in some detail by highlighting relevant cues and offering examples of appropriate responding. Social narratives are individualized according to learner needs and typically are quite short, perhaps including pictures or other visual aids.	0	17
Social skills training (SST)	Group or individual instruction designed to teach learners with autism spectrum disorders (ASD) ways to appropriately interact with peers, adults, and other individuals. Most social skill meetings include instruction on basic concepts, role-playing or practice, and feedback to help learners with ASD acquire and practice communication, play, or social skills to promote positive interactions with peers.	7	8
Structured play group (SPG)	Small group activities characterized by their occurrences in a defined area and with a defined activity, the specific selection of typically developing peers to be in the group, a clear delinea- tion of theme and roles by adult leading, prompting, or scaffolding as needed to support students' performance related to the goals of the activity.	2	2
Task analysis (TA)	A process in which an activity or behavior is divided into small, manageable steps in order to assess and teach the skill. Other practices, such as reinforcement, video modeling, or time delay, are often used to facilitate acquisition of the smaller steps.	0	8
Technology-aided instruction and intervention (TAII)	Instruction or interventions in which technology is the central feature supporting the acquisi- tion of a goal for the learner. Technology is defined as "any electronic item/ equipment/ application/or virtual network that is used intentionally to increase/maintain, and/or improve daily living, work/productivity, and recreation/leisure capabilities of adolescents with autism spectrum disorders" (Odom, Thompson, et al., 2013).	9	11

Evidence-Based Practices for Children, Youth, and Young Adults with Autism Spectrum Disorder With Spectrum Disorder Descent Spectrum Disorder Descent Spectrum Disorder

	<b>DEFINITIONS OF 27 EBPs</b>	Empirical	Support
Evidence-Based Practice		Group (n)	Single Case (n)
Time delay (TD)	In a setting or activity in which a learner should engage in a behavior or skill, a brief delay occurs between the opportunity to use the skill and any additional instructions or prompts. The purpose of the time delay is to allow the learner to respond without having to receive a prompt and thus focuses on fading the use of prompts during instructional activities.	0	12
Video modeling (VM)	A visual model of the targeted behavior or skill (typically in the behavior, communication, play, or social domains), provided via video recording and display equipment to assist learning in or engaging in a desired behavior or skill.	1	31
Visual support (VS)	Any visual display that supports the learner engaging in a desired behavior or skills indepen- dent of prompts. Examples of visual supports include pictures, written words, objects within the environment, arrangement of the environment or visual boundaries, schedules, maps, labels, organization systems, and timelines.	0	18



## FACT SHEETS AVAILABLE FOR EACH OF THE 27 EBPs

Video Modeling Fact Sheet

#### **Brief Description**

Video modeling (VM) is a method of instruction that uses video recording ment to provide a visual model of the targeted behavior or skill. The model learner, who then has an opportunity to perform the target behavior, either a later point in time. Types of video modeling include basic video modeling point-of-view video modeling, and video prompting. *Basic video modeling* and involves recording someone besides the learner engaging in the target *self-modeling* is used to record the learner displaying the target skill or beh editing to remove adult prompts. *Point-of-view video modeling* is when the skill is recorded from the perspective of what the learner will see when he e response. *Video prompting* involves breaking the behavior into steps and recording each step with incorporated pauses during which the learner may view and then attempt a step before viewing and attempting subsequent steps. Video prompting can be implemented with other, self, or pointof-view models. Video modeling strategies have been used in isolation and also in conjunction with other intervention components such as prompting and reinforcement strategies.

#### **Qualifying Evidence**

VM meets evidence-based criteria with 1 group design and 31 single case design studies.

#### Ages

According to the evidence-based studies, this intervention has been effective for toddlers (0-2 years) to young adults (19–22) years with ASD.

#### Outcomes

VM can be used effectively to address social, communication, behavior, joint attention, play, cognitive, school-readiness, academic, motor, adaptive, and vocational skills.

#### **Research Studies Poviding Evidence**

- Akmanoglu, N., & Tekin-Iftar, E. (2011). Teaching children with autism how to respond to the lures of strangers. Autism, 15(2), 205-222. doi: 10.1177/1362361309352180
- Allen, K. D., Wallace, D. P., Greene, D. J., Bowen, S. L., & Burke, R. V. (2010). Community-based vocational instruction using videotaped modeling for young adults with autism spectrum disorders performing in air-inflated mascots. *Focus on Autism and Other Developmental Disabilities*, 25(3), 186-192. doi: 10.1077/1088357610377318

Evidence-Based Practices for Children, Youth, and Young Adults with Autism Spectrum Disorder 101

Evidence-Based Practices for Children, Youth, and Young Adults with Autism Spectrum Disorder

Connie Wong, Samuel L. Odom, Kara Hume, Ann W. Cox, Angel Fettig, Suzanne Kucharczyk, Matthew E. Brock, Joshua B. Plavnick, Veronica P. Fleury, and Tia R. Schultz

Autism Evidence-Based Practice Review Group Frank Porter Graham Child Development Institute University of North Carolina at Chapel Hill

## 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

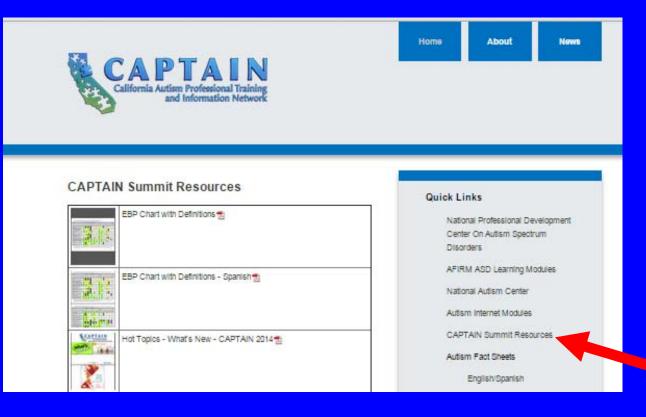
Evidence Based Practice and Abbreviated	Ev	ride	nce	by	Dev	velo	pm	ent	al D	om	ain	and	d Ag	ge (y	yea	rs)																				
Definition	5	Socia	d	C	omm	ı.		Beh.			oint Attn.		1	Play			Cog			choo tead		A	cad.		М	otor		A	dapt	E.		Voc.			lenta lealti	
	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22
Antecedent Based Intervention (ABI): Arrangement of events preceding an interfering behavior to prevent or reduce occurrence																																				
Cognitive Behavioral Intervention (CBI): Instruction on cognitive processes leading to changes in behavior																																				
Differential Reinforcement of Alternative, Incompatible, or Other Behavior (DRA/I/O): Consequences provided for desired behaviors that reduce the occurrence of interfering behaviors																																				
Discrete Trial Teaching (DTT): Instructional process of repeated trials, consisting of instruction, response, and consequence																																				
Exercise (ECE): Antecedent based physical exertion to reduce interfering behaviors or increase appropriate behaviors																																				
Extinction (EXT): Removal of existing reinforcement in order to reduce an interfering behavior																																				
Functional Behavior Assessment (FBA): Systematic protocol designed to identify contingencies that maintain an interfering behavior																																				
Function Communication Training (FCT): Replacement of an interfering behavior with communication that accomplishes the same function																																				
Modeling (MD): Demonstration of a desired behavior that results in skill acquisition through learner imitation																																				
Naturalistic Intervention (NI): Intervention strategies that occur with the learner's typical settings and routines																																				
Parent-Implemented Intervention (PII): Parent delivered intervention learned through a structured parent training program																																				
Peer-Mediated Instruction and Intervention (PMII): Typically developing peers are taught strategies that increase social learning opportunities in natural environments																																				
Picture Exchange Communication System (PECS): Systematic 6 phase protocol teaching the exchange of pictures between communicative partners																																				

## www.captain.ca.gov

Evidence Based Practice and Abbreviated	Evidence by Developmental Domain and Age (years)																																			
Definition		Socia	1	C	omm		B	eh.			oint ttn.		1	Play			Cog.		-	choo lead	_	A	lcad.		М	lotor	r	A	dapt	:		Voc.			fenta lealti	-
	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	_	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	6-14	15-22	0-5	4	15-22
Pivotal Response Training (PRT): Pivotal learning variables guide intervention implemented in settings that build on learner interests and initiative																																				
Prompting (PP): Verbal, gestural, or physical assistance that supports skill acquisition																																				
Reinforcement (R+): A response occurring after a behavior resulting in an increased likelihood of future reoccurrence of the behavior																																				
<b>Response Interruption/Redirection (RIR):</b> Use of prompts or distracters during an interfering behavior that diverts attention and reduces the behavior																																				
Scripting (SC): A verbal or written model of a skill or situation that is practiced before use in context																																				
Self Management (SM): Instruction on discrimination between appropriate and inappropriate behaviors and accurate self-monitoring and rewarding of behaviors																																				
Social Narratives (SN): Descriptions of social situations with examples of appropriate responding																																				
Social Skills Training (SST): Direct instruction on social skills with rehearsal and feedback to increase positive peer interaction.																																				
Structured Play Group (SPG): Adult lead small group activities that include typically developing peers and use prompting to support performance																																				
Task Analysis (TA): The process of breaking a skill into small steps that are systematically chained together																																				
Technology-Aided Instruction and Intervention (TAII): Intervention using technology as a critical feature																																				
Time Delay (TD): Delaying a prompt during a practice opportunity in order to fade the use of prompts																																				
Video Modeling (VM): A video recording of a targeted skill that is viewed to assist in learning																																				
Visual Support (VS): Visual display that supports independent skill use.																																				

## www.captain.ca.gov

## 27 EBPs Matrix Available on the CAPTAIN Website English and Spanish and German! www.captain.ca.gov





As you watch the video clips use the EBP Matrix as a reference and see if you can determine which EBPs were in place.

## What EBPs did you see?



## **Implementation Fidelity is Critical!**

What does this mean?



"Implementing an intervention in the same manner in which it was done in the evidencebased research"



THE NATIONAL PROFESSIONAL DEVELOPMENT CENTER ON AUTISM SPECTRUM DISORDERS

### **Training Outcomes Related to Training Components**

Training Components		Training Outcomes	
	Knowledge of Content	Skill Implementation	Classroom Application
Presentation/ Lecture	10%	5%	0%
Plus Demonstration in Training	30%	20%	0%
Plus Practice in Training	60%	60%	5%
Plus Coaching/ Admin Support Data Feedback	95%	95%	95%

Source:

Joyce, B., & Showers, B. (2002). Student achievement through staff development (3rd ed.). Alexandria, VA: Association for Supervision and Curriculum Development.

## Implementation Fidelity is Critical!

## How implementation fidelity achieved:



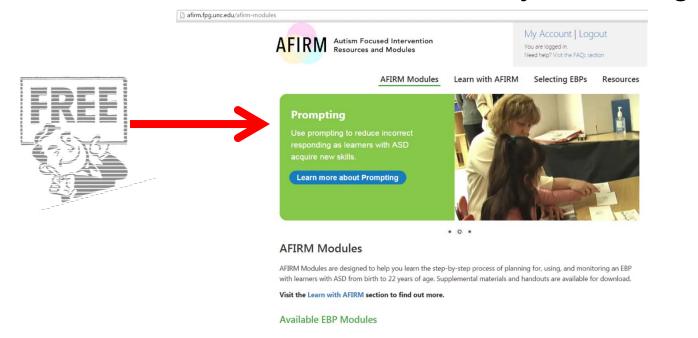
- 1. Use Implementation Checklists for the EBP to capture fidelity of implementation
- 2. Refer to EBP Fact Sheets
- 3. Use reliable self-learning modules on EBPs
- 4. Attend training on the EBPs
- 5. Access coaching on the EBP until fidelity is attained



THE NATIONAL PROFESSIONAL DEVELOPMENT CENTER ON AUTISM SPECTRUM DISORDERS

### High Quality Training: <u>A</u>utism <u>F</u>ocused <u>I</u>ntervention <u>R</u>esources and <u>M</u>odules (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



AFIRM Autism Eccused Intervention Resources and Modules

<sup>n</sup> www.captain.ca.gov http://afirm.fpg.unc.edu/afirm-modules

## **AFIRM**

<u>Autism Focused Intervention Resources and Modules</u>

What you'll learn with AFIRM Modules:

Key components of an EBP



- Behaviors and skills that can be addressed
- A step-by-step process for applying the practice
- Specific resources that you can download and customize for your own use

## **AFIRM**

### [19 of 27 EBPs Available as of 09/12/17

- 1. ABIAntecedent-based Intervention2. DRDifferential Reinforcement
- 3. DTT Discrete Trial Training
- 4. ECE Exercise
- 5. FBA Functional Behavior Analysis
- 6. FCT Functional Communication Training
- 7. MD Modeling
- 8. NI Naturalistic Intervention
- 9. PMII Peer-Mediated Instruction and Intervention
- **10. PECS** Picture Exchange Communication System
- 11. PPPrompting
- 12. R+Reinforcement
- 13. SC Scripting
- 14. SM Self-management
- 15. SN Social Narratives
- 16. SST Social Skills Training
- 17. TA Task Analysis
- 18. TD Time Delay
- 19. VSVisual Supports

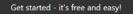
#### **Upcoming:**

- PII Parent-implemented Intervention
- □ VM Video Modeling
- □ CBI Cognitive Behavior Intervention

o • • AFIRM Modules

AFIRM Modules are designed to help you learn the step-by-step process of planning for, using, and monitoring an EBP with learners with ASD from birth to 22 years of age. Supplemental materials and handouts are available for download.

Visit the Learn with AFIRM section to find out more.



#### Available EBP Modules

Login Sign Up

AFIRM Modules Learn with AFIRM Selecting EBPs

AFIRM Autism Focused Intervention Resources and Modules

> Antecedent-based Intervention

Learn more about ABI

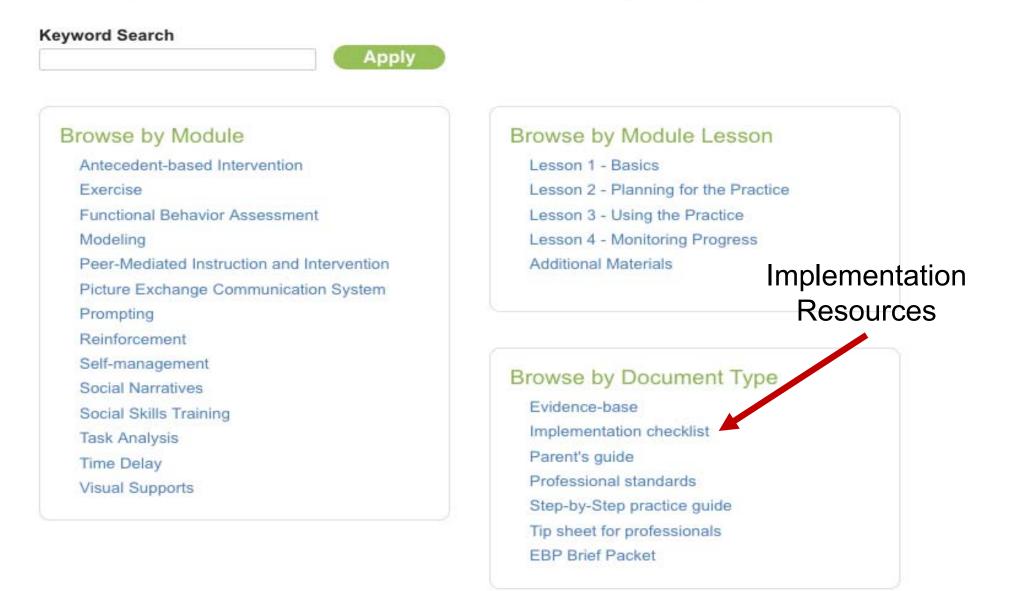
## Helpful AFIRM Learning Module! How to Select an EBP http://afirm.fpg.unc.edu/selecting-ebp

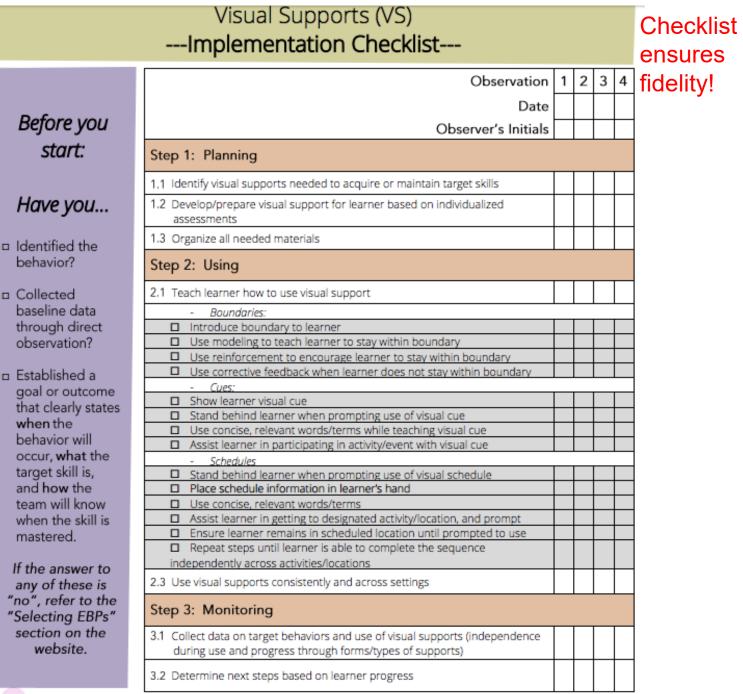
AFIRM Autism Focused Intervention Resources and Modules	Login   Sign Up
AFIRM Modules	Learn with AFIRM Selecting EBPs
Selecting an EBP	
Watch a Short Overview Video on the Selecting EBP Process	
Before beginning any new practice or intervention with a learner, it is imp The four-step process includes:	ortant to follow four general planning steps.
Identifying the behavior	
Defining the extent of the behavior (collecting baseline data)	
<ul> <li>Establishing an observable and measurable goal or outcome</li> </ul>	
Choosing an EBP	
Identify the behavior or skill	
To help you select the best evidence-based practice to use with your stud behavior. The target behavior must be observable and clearly defined in t should be able to identify the behavior (including its frequency and durat	he setting where it occurs. All team members

behavior

### **AFIRM Resources**

Select a key word to search for AFIRM resources or filter AFIRM resources by category.



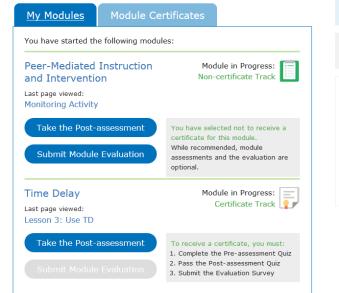


### **AFIRM Certificates**

#### The National Professional Development Center on ASD Awards this Certificate of Completion to Jane Smith For completing the AFIRM Module **Time Delay** January 8, 2016 Time to complete: 2 hours Samuel h. alom ann W. Cox Samuel L. Odom, Ph.D. Ann W. Cox, Ph.D. Director, FPG Child Development Institute Director, NPDC and AFIRM Module Projects UNC AFIRM Autism Focused Intervention Resources and Modules

#### **My Account**

- Resume your learning from the My Modules tab by selecting the last page viewed.
- View or print module certificates you have earned from My Certificates.





Visit the AFIRM Modules page to see a list of available and upcoming modules



#### Account Information

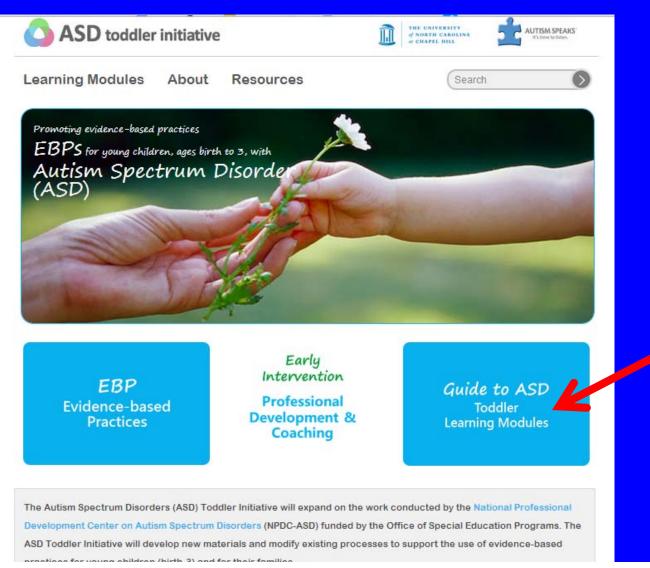
Username: rossaj

E-mail: andrea.ross@unc.edu

Send me e-mail updates when a new EBP is available: No

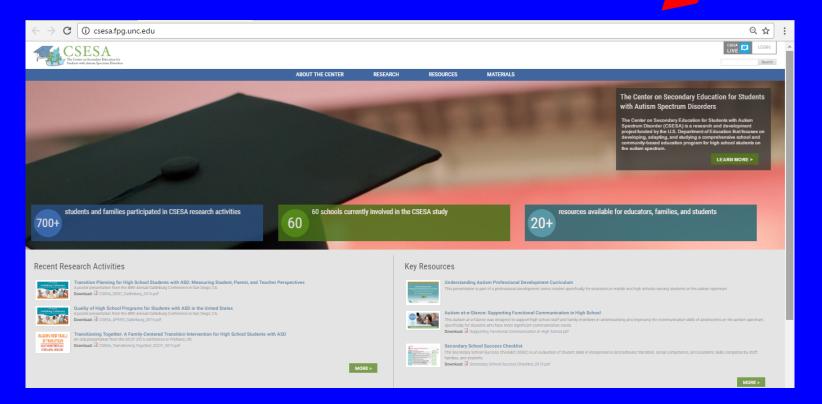
Edit information or change password

# SELF LEARNING MODULES FOR TODDLERS! NPDC-ASD Early Start Website http://asdtoddler.fpg.unc.edu



# **Resources for Older Individuals with ASD**





www.captain.ca.gov http://csesa.fpg.unc.edu

## Presentation 1:

## **Characteristics and Practices for Challenging Behavior**

# Example of Resources



\*NOTE: If you have having difficulty with the video links embedded as part of the presentation, link to the v on this page: http://csesa.fpg.unc.edu/understanding-autism-presentation-1-videos

- Facilitator Notes
- Participant Handout
- Activity Worksheet
- At My School Worksheet

Please review this notification of a video change made for Presentation 1, <u>Repetitive Behaviors and Restricted Interests vide</u> (slide 17).

### Presentation 2:

## Strategies for Classroom Success and Effective Use of Teacher Supports





#### www.captain.ca.gov

#### 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.
- Establishing supports that are locally based with trainer of trainers at the local level.
- Emphasizing how to use EBPs to assist students in accessing the California Common Core State Standards and developing College and Career Readiness.
- Providing ongoing training, support, and technical assistance to implement EBPs and ensure fidelity of implementation.
- Supporting the development of local multilagency collaborations to support consistent use of EBPs.
- Providing an annual training summit and a forum for collegial communication and support to CAPTAIN Cadre members.
- Providing web based access to materials and resources that are vetted and align with current EBPs.
- Providing information and outreach to other interested stakeholders and provider groups who could benefit from learning more about EBPs (E.g. Professional Organizations, Higher Education, Self Advocates, Allied Health Providers)





**Quick Links** National Professional Development Center On Autism Spectrum Disorders AFIRM ASD Learning Modules National Autism Center Autism Internet Modules CAPTAIN Summit Resources Autism Fact Sheets English/Spanish Other Languages Ask a Specialist - ASD CAPTAIN Cadre Regional Plans CAPTAIN Leadership Act Early Effective Early Childhood Transitions Guide ASD Toddler Initiative ADEPT **CAPTAIN** Partners Diagnostic Centers, CDE Family Resource Centers Network of California

Center for Excellence for Developmental Disabilities at UC Davis MIND Institute

USC University Center for Excellence in Developmental Disabilities (USC UCEDD)

California Department of Developmental Services

> CAPTAIN Summits [by invitation only]

North: October 15-16, 2015 South: November 9-10, 2015



Use these Quick Links on the CAPTAIN website to access these EBP resources!

# **2 IMPORTANT ASD EBP RESOURCES**

National Professional Development Center (NPDC)	National Autism Center (NAC)
<ol> <li>27 Evidence Based Practices</li> <li>AFIRM</li> </ol>	1. National Standards Project Report-Phase 2 NSP2
3. CSESA	
4. EBPs for Young Children	
Released March 2014	Released April 2015
http://autismpdc.fpg.unc.edu http://afirm.fpg.unc.edu http://csesa.fpg.unc.edu http://asdtoddler.fpg.unc.edu www.captain.ca.gov	www.nationalautismcenter.org www.captain.ca.gov



- Based on research conducted in the field from 2007 to February 2012
- Provides an update to the previously published summary of empirical treatment literature (2009)
- 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 www.nationalautismcenter.org

# Strength of Evidence Classification System

# **Established:**

Sufficient evidence is available to confidently determine that an intervention produces favorable outcomes for individuals on the autism spectrum. That is, these interventions are established as effective.

# **Emerging:**

Although one or more studies suggest that an intervention produces favorable outcomes for individuals with ASD, additional high quality studies must consistently show this outcome before we can draw firm conclusions about intervention effectiveness.

# **Unestablished:**

There is little or no evidence to allow us to draw firm conclusions about intervention effectiveness with individuals with ASD. Additional research may show the intervention to be effective, ineffective, or harmful.



**Overall Findings for Individuals Under Age 22** 

# 14 Established Interventions

# •18 Emerging Interventions

13 Unestablished Interventions

tindings and Conclusions: National Standards Project, Phase 2

vac

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)



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.

A large number of studies fall into the Emerging level of evidence. We believe scientists should find fertile ground for further research in these areas.

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

<sup>ment</sup> 18 EMERGING INTERVENTIONS (for individuals under age 22)



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:

- Animal-assisted Therapy
- Auditory Integration Training
- Concept Mapping
- I 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)



### Research Findings for Adults (22+ Years)

## Established Interventions for Adults Only 1 Established

The only intervention to be ident deriver Established for individuals ages 22 years and older is Behavioral Interventions. The Dehavioral 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



# NSP2 Example of EBP

#### Modeling

#### Established Intervention

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.

#### Basic Facts Number of articles reviewed: NSP1= 51 NSP2=28



#### Effective ages: Children and adolescents 3-18 years

#### Skills increased:

#### Behaviors decreased:

- higher cognitive functions (NSP1)
   problem behaviors (NSP1)
- academic (NSP2)
- sensory or emotional regulation (NSP1)
- communication, interpersonal, personal responsibility, and play (NSP192)

Detailed Description



#### 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 the video.

## NSP2

# Recommendations For Intervention Selection Established Interventions have sufficient evidence of effectiveness

"We recommend the decision-making team give serious consideration to these interventions because:

- these interventions have produced beneficial effects for individuals involved in the research studies published in the scientific literature
- access to interventions that work can be expected to produce more positive long-term outcomes
- there is no evidence of harmful effects

However, it should not be assumed that these interventions will universally produce favorable outcomes for all individuals with ASD"

# NSP2

**Recommendations For Intervention Selection** 

# **EMERGING INTERVENTIONS**

"We generally do not recommend beginning with these interventions

However, Emerging Interventions should be considered promising and warrant serious consideration if Established Interventions are deemed inappropriate by the decision-making team, or were unsuccessful in producing positive outcomes"

# NSP2

# **Recommendations For Intervention Selection**

## **UNESTABLISHED INTERVENTIONS**

"Unestablished Interventions either have no research support or the research that has been conducted does not allow us to draw firm conclusions about intervention effectiveness for individuals with ASD.

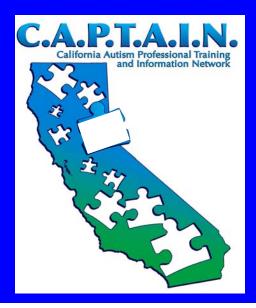
When this is the case, decision-makers simply do not know if this intervention is effective, ineffective, or harmful because researchers have not

conducted any or enough high-quality research.

Given how little is known about these interventions, we would recommend considering these interventions only after additional research has been conducted and this research reveals favorable outcomes for individuals with ASD."

# 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



# **2 IMPORTANT ASD EBP RESOURCES**

National Professional Development Center (NPDC)	National Autism Center (NAC)
<ol> <li>27 Evidence Based Practices</li> <li>AFIRM</li> </ol>	1. National Standards Project Report-Phase 2 NSP2
3. CSESA	
4. EBPs for Young Children	
Released	Released
March 2014	April 2015
http://autismpdc.fpg.unc.edu http://afirm.fpg.unc.edu http://csesa.fpg.unc.edu http://asdtoddler.fpg.unc.edu www.captain.ca.gov	www.nationalautismcenter.org www.captain.ca.gov

# Why Are these EBP resources so important?



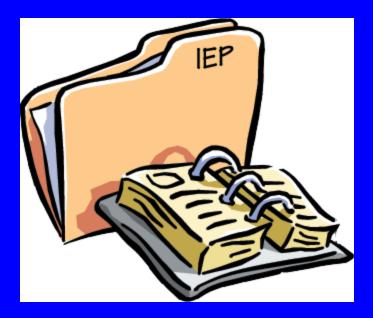


# Knowing of these EBPs:

- helps us know which treatments have evidence of effectiveness and which treatments do not
- allows us to make informed decisions when we select treatments
- provides us with the opportunity to support 文分/ individuals with ASD in reaching their full potential

# Implementing EBPs goes right along with.....

# The Individuals with Disabilities Education Act



# IDEA 2004 \* Sec. 300.320 Definition of Individualized Education Program.....

,,,,,(4) A statement of the special education and related services and supplementary aids and services, **based on peer-reviewed research** to the extent practicable, to be provided to the child, or on behalf of the child, and a statement of the program modifications or supports for school personnel that will be provided to enable the child--

(i) To advance appropriately toward attaining the annual goals;

(ii) To be involved in and make progress in the general education curriculum in accordance with paragraph (a)(1) of this section, and to participate in extracurricular and other nonacademic activities; and

(iii) To be educated and participate with other children with disabilities and nondisabled children in the activities described in this section;.....

# **IDEA 2004**

# Part C: Infants and Toddlers with Disabilities

### SEC. 635. REQUIREMENTS FOR STATEWIDE SYSTEM

(a) In General.--A statewide system described in section 633 shall include, at a minimum, the following components:

(2) A State policy that is in effect and that ensures that appropriate **early intervention services based on scientifically based research**, to the extent practicable, are available to all infants and toddlers with disabilities and their families, including Indian infants and toddlers with disabilities and their families residing on a reservation geographically located in the State and infants and toddlers with disabilities who are homeless children and their families.

#### SEC. 636. INDIVIDUALIZED FAMILY SERVICE PLAN

(d) Content of Plan.--The individualized family service plan shall be in writing and contain--

(4) a statement of specific **early intervention services based on peer-reviewed research**, to the extent practicable, necessary to meet the unique needs of the infant or toddler and the family, including the frequency, intensity, and method of delivering services;

## Every Student Succeeds Act (ESSA) S.1177-290

#### (21) EVIDENCE-BASED.—

(A) IN GENERAL.—Except as provided in subparagraph

(B), the term 'evidence-based', when used with respect to a State, local educational agency, or school activity, means an activity, strategy, or intervention that—

(i) demonstrates a statistically significant effect on improving student outcomes or other relevant outcomes based on—

I) **strong evidence** from at least 1 well designed and wellimplemented experimental study;

II) **moderate evidence** from at least 1 well designed and wellimplemented quasi-experimental study; or

(III) **promising evidence** from at least 1 well designed and wellimplemented correlational study with statistical controls for selection bias; or

(ii)(I) demonstrates a rationale **based on high quality research findings** or positive evaluation that such activity, strategy, or intervention is likely to improve student outcomes or other relevant outcomes; and

(II) includes ongoing efforts to examine the effects of such activity, strategy, or intervention.

# Definition of Evidence-based in ESSA

EVIDENCE-BASED.— (A) IN GENERAL.—Except as provided in subparagraph (B), the term 'evidence-based', when used with respect to a State, local educational agency, or school activity, means an activity, strategy, or intervention that—

> (i) demonstrates a statistically significant effect on improving student outcomes or other relevant outcomes based on-(I) strong evidence from at least 1 well-designed and wellimplemented experimental study; (II) moderate evidence from at least 1 well-designed and well-implemented guasi-experimental study; or (III) promising evidence from at least 1 well-designed and well-implemented correlational study with statistical controls for selection bias: or (ii)(I) demonstrates a rationale based on high-guality research findings or positive evaluation that such activity, strategy, or intervention is likely to improve student outcomes or other relevant outcomest and (II) includes ongoing efforts to examine the effects of such activity, strategy, or intervention. (B) DEFINITION FOR SPECIFIC ACTIVITIES FUNDED UNDER THIS ACT.-When used with respect to interventions or improvement activities or strategies funded under section 1003, the term 'evidence-based' means a State, local educational agency, or school activity, strategy, or intervention that meets the requirements of subclause (I), (II), or (III) of subparagraph (A)(i).

# CA ED CODE 56345

(4) A statement of the special education and related services and supplementary aids and services, based on **peer-reviewed research** to the extent practicable, to be provided to the pupil, or on behalf of the pupil, and a statement of the program modifications or supports for school personnel that will be provided to enable the pupil to do the following:

(A) To advance appropriately toward attaining the annual goals.

(B) To be involved in and make progress in the general education curriculum in accordance with paragraph (1) and to participate in

extracurricular and other nonacademic activities.

(C) To be educated and participate with other individuals with exceptional needs and nondisabled pupils in the activities described in this subdivision.

# Multi-tiered System of Supports (MTSS): A Comprehensive Framework for Implementing the CCSS www.mydigitalchalkboard.org

beta DIGITAL	Welcome, Guest!	Request Account Log In	Help	٩	
CHALKBOARD Where California Educators Collaborate					
Home Resources Profession	l Development Content Calendar C	Community Groups	Standards About		
Search Term(s) ्	Displaying <b>1-20</b> of <b>53</b> development content /IEWING STYLES: LIST GALLERY			1 2 3 >	
Content Types	<u>TITLE</u> ▼ <u>DATE CRE</u>	ATED VIEWS FAV	<u>/ORITES</u> <u>RELEVANCE</u>		
Select/Deselect All  Curriculum Instruction Evaluation Classroom Management Administrators	Comprehense Implementin	Multi-tiered System of Supports: A Comprehensive Framework for Implementing the California Common Core State Standards		Views: 10683 Favorites: 33	
Topics      English-Language Arts     English Language Developmer     History-Social Science     Science	Grades: No grades se Contributor: Californ Learning Modules	lected. Subjects: I ia Common Core State S	No subjects selected. Standards: Professional		
<ul> <li>Mathematics</li> <li>Visual Arts &amp; Performing Arts</li> <li>Foreign Languages</li> <li>Health &amp; Physical Education</li> </ul>		e into the Cali velopment Sta	fornia English andards	Views: 22423 Favorites: 78	

# Multi-tiered System of Supports (MTSS): A Comprehensive Framework for Implementing the CCSS www.mydigitalchalkboard.org

# Implementing the CA CCSS Through MTSS

". . . Implementing the Common Core State Standards within a framework of a Multi-Tiered System of Support will help ensure that all students have an evidence-based system of instruction to assist them in achieving success."

(Gamm, Elliott, Halbert, et. al., 2012)

# Multi-tiered System of Supports (MTSS): A Comprehensive Framework for Implementing CCSS www.mydigitalchalkboard.org

# **MTSS Principles and Practices**

- Early Intervention
- Multi-tiered model Integration of
- Evidence-based supports and practices
- Fluidly driven by data
- Individualized interventions

www.kansasmtss.org)

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

# Implementing EBPs Aligns With CCSS Instruction and UDL

NATIONAL CENTER ON UNIVERSAL DESIGN for LEARNING

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

# Implementing EBPs goes right along with Senate Bill 946.....

Health and Safety Code Section 1374.73 (4)(c)(1) Insurance Code Section 10144.51 (4)(c)(1)

"Behavioral health treatment" means professional services and treatment programs, including applied behavior analysis and **evidence-based behavior intervention programs**, that develop or restore, to the maximum extent practicable, the functioning of an individual with pervasive developmental disorder or autism and that meet all of the following criteria..."

# Implementing EBPs goes right along with the Lanterman Act.....

"4686.2. (b) Effective July 1, 2009, notwithstanding any other provision of law or regulation to the contrary, regional centers shall:

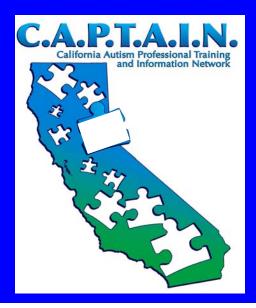
(1) Only purchase ABA services or intensive behavioral intervention services that reflect **evidence-based practices**, promote positive social behaviors, and ameliorate behaviors that interfere with learning and social interactions..."

# Implementing EBPs goes right along with Lanterman Act.....

"4686.2. (d) (3) "Evidence-based practice" means a decision making process that integrates the best available scientifically rigorous research, clinical expertise, and individual's characteristics. Evidence-based practice is an approach to treatment rather than a specific treatment. Evidence-based practice promotes the collection, interpretation, integration, and continuous evaluation of valid, important, and applicable individual- or family-reported, clinically-observed, and research-supported evidence. The best available evidence, matched to consumer circumstances and preferences, is applied to ensure the quality of clinical judgments and facilitates the most cost-effective care. "

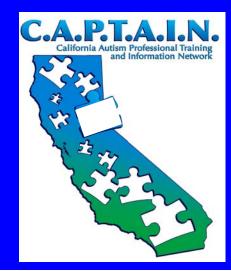
# CAPTAIN Recommends

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



# CAPTAIN Website www.captain.ca.gov

You can easily access all these EBPs, NPDC tools and EBP Resources through the CAPTAIN website!





CAPTAIN Website Hosted by DCN!



#### Providing stationals access to Institute and resources in Evidence Based Processor (EED's) there calculatly sensitive. Family centered, coal effective, and competency based.

 Establishing supports that are locally based with insister of insisters at the local level.

 Emphasizing Inter In use EEP's in spont statistics in accessing the California Conversa Care Statis Statistics and developing College are Care Plantiness.

- Providing origining training, support, and technical assistance to implement ELP's and ensure fidelity of implementation.
- Supporting the development of local multispency collaborations to support considers use of LEP's.
- Providing an annual insining summit and a furian for collegal communication and support to CAPTAIN Cade inventions.
- Providing owb basist access to molectule and resources that are velocit and skips with cornel. EDI 5;

Providing information and automate to other information and provide groups who could be will from teaming more already ESPs (E.g. Professional Organizations, Pagler Establish, Self Advances, Abert Health Providers)





Higgson Yeen CMT-2471 Lusterholt Lusen the Sign. An Early, (202) Effectors Early Olithonal Transfare Galant ABD Tother Interface ABD Tother Interface CMT-244 Network Description Contene, CDE Transfar Contenes for Description Contenes for

USC University Center For

Excellence in Developme Development (USC OCEDD

National Autom Circles Autom Informal Modules

CAPTAIN Hexards

110\* Transpo

EHOWCASE.

Other Lanzanza

Ask a Specialist - ASU CAPTAIN Caby

Autom Fact Sheets English/Spanish 

# Links to ASD Resources

CAPTAIN Social Media Links

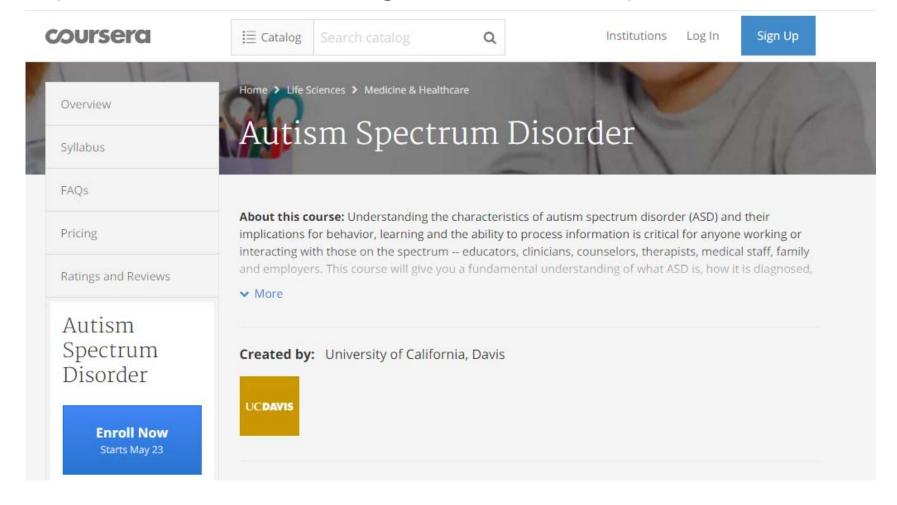
www.captain.ca.gov autismebp@gmail.com

# **STAY CONNECTED and UP-TO-DATE!**



# Free ASD Course! www.captain.ca.gov

## https://www.coursera.org/learn/autism-spectrum-disorder





# "Children and families cannot benefit from evidence-based practices that they do not experience." -Dean Fixsen, NIRN, 2006



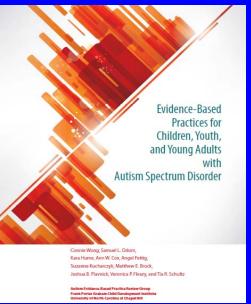
http://nirn.fpg.unc.edu/

# Post-Assessment What did you learn?





# **END** What are Evidence-Based Practices (EBPs) for ASD?





Ann England, M.A., CCC-SLP-L Assistant Director, Diagnostic Center, CDE \* Co-Coordinator CAPTAIN