

Rationale & ASD Intro

• Current prevalence: 1 in 68 (1.47%) – (conservative)

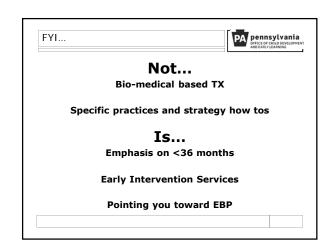
- 5x more boys (1:42) vs girls (1:189)

• Early ID reliable at 18 months – yet recognizable earlier

- If an older sibling has ASD, the recurrence risk is 2%-18%

- 10% of ASDs have certain genetic or chromosomal conditions (e.g., Fragile X)

• 46%-66% have average or above average intellectual ability



Agenda

✓ Rationale and ASD intro

• What is Evidence Based Practice?

• ASD – Defined via DSM 5

• How do we ID children w ASD at earliest age?

- Supporting families

- Planning for Intervention

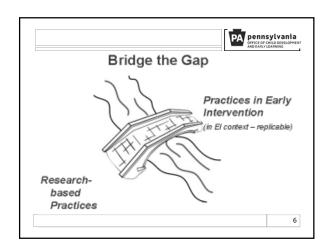
• How do we apply EBP within a Part C context?

- Coaching caregivers to support their child's development

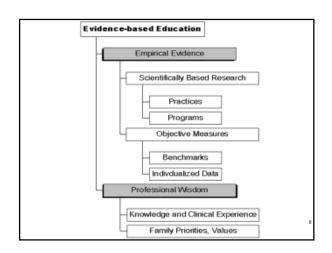
- Empirical evidence - treatment packages and practices

- EBP sample and illustration

• Put it all together – let's practice







Professional wisdom helps us...

- adapt to local circumstances

- operate intelligently where research evidence is absent or incomplete.

Empirical evidence helps us...

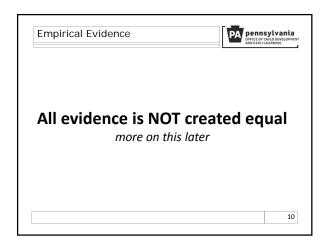
- resolve competing approaches

- generate cumulative knowledge

- avoid fad, fancy, and personal bias

- Grover Whitehurst

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Recommended Practices from Research Reviews or Synthesis

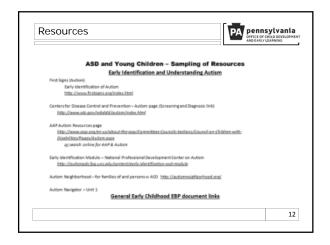
Early Childhood Intervention for young children w ASD National Research Council, NPDCI/FPG, Research Institutions e.g., Earlier the better, focus on soc-communication, behavioral principles

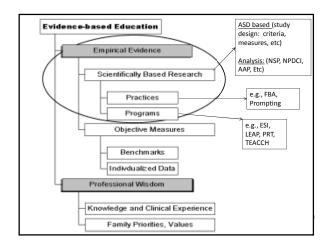
Early childhood special education

DEC recommended Practices
E.g., family centered, explicit instruction, individualized plans

Early childhood education & mental health
Zero to Three, NAEVC, etc
E.g., secure attachments, routines, literacy exposure

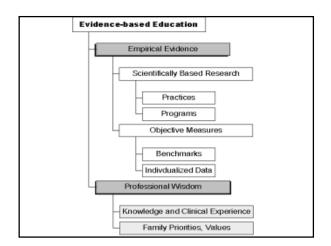
General child growth & development
Amer Academy of Pediatrics, National Institute of Health
E.g., screen time, sleep, nutrition, movement

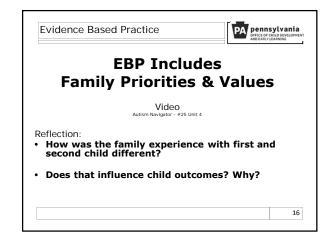


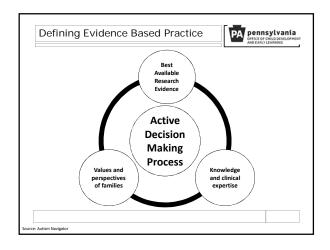


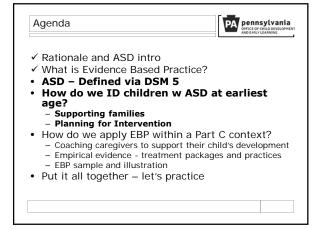
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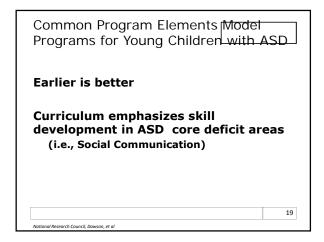
National Research Council, Dawson, et al

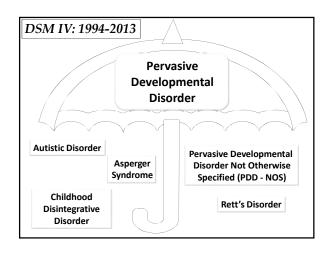


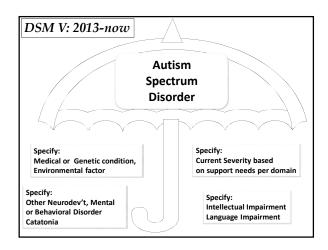


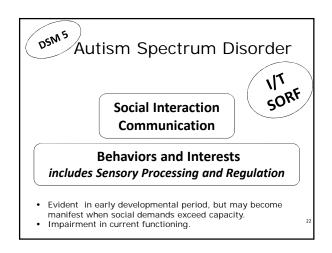












Early Soc-Communication

Examples...
Shares Attention

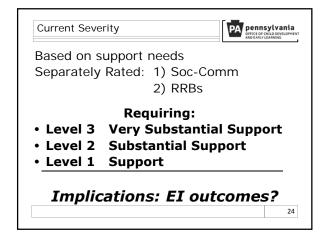
- Notices, looks, shifts gaze
Shares Emotion

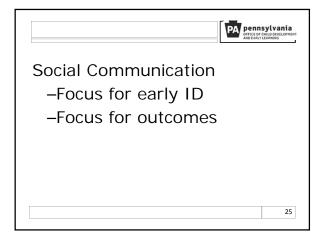
- Variety, seeks comfort, smiles, responds to other's emotion

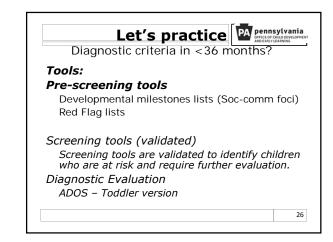
Reciprocity

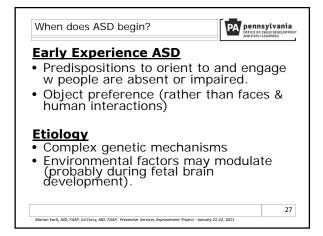
- Initiates and responds, persists
Social Imitation
Symbol Use

- Play, meaningful sounds/words, gesture

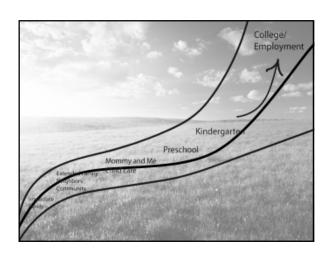




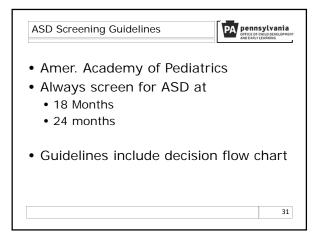


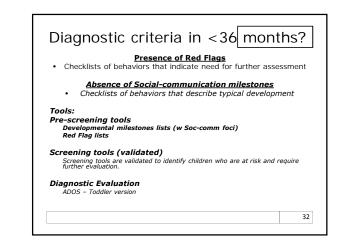


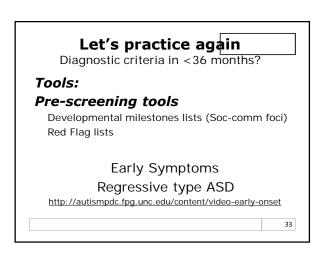


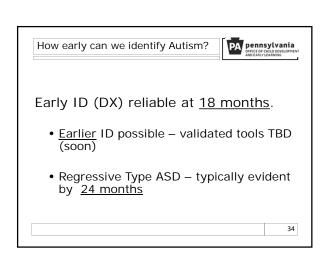


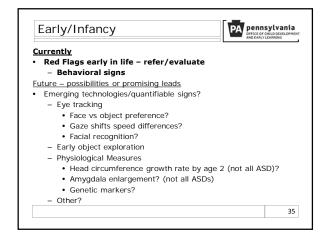


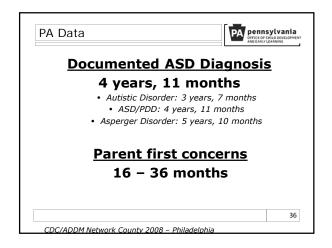




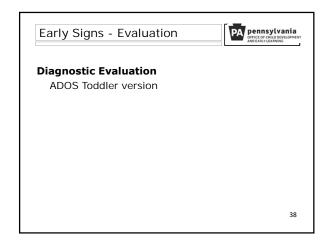












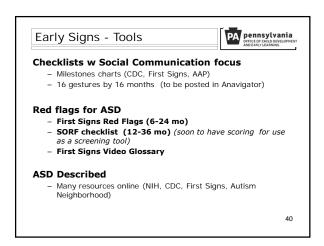
Range of Tools for Early ID

Tools w Early Social-Communication Foci
Checklists

ASD informational or video descriptions

Screening for ASD risk

Screening for Social-Communication risk



Early Signs - Tools

Screening for ASD - toddlers & preschoolers

- MCHAT R or MCHAT R/F (16-30 mo best - to 48 mo ok)

- POSI (16-36 mo best - 18-48 mo ok)

- STAT (level 2 screen - 24-36 mo)

- SCQ (ages 4 yr + - requires mental age 2 yr)

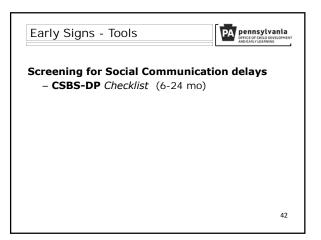
Coming soon...

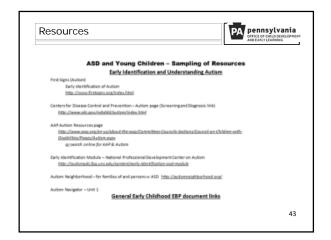
- SORF (in development for 12-36mo)

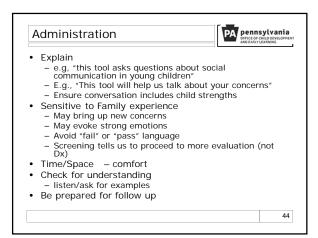
- ESAC (Piloting - online screen for 12-36 mo)

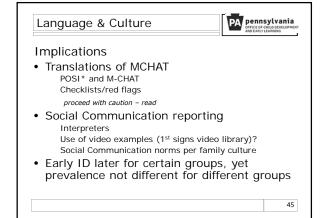
Screening for Social Communication delays

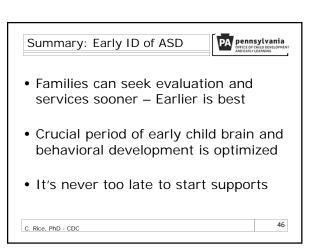
- CSBS-DP Checklist (6-24 mo)

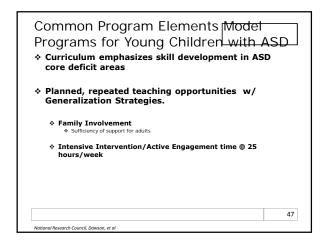


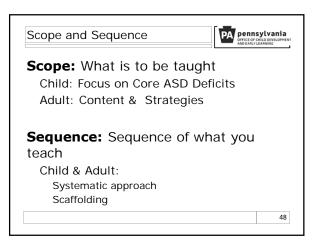


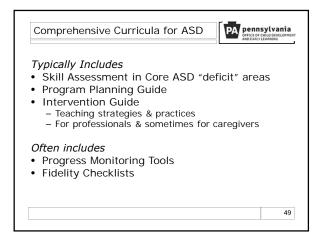


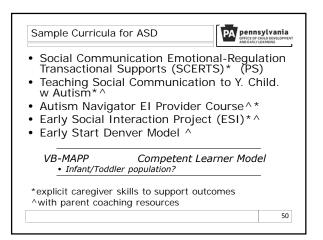


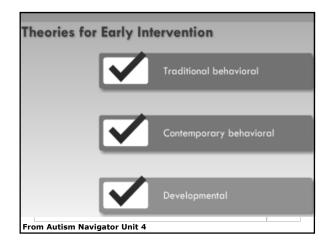


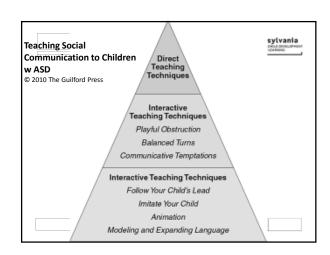


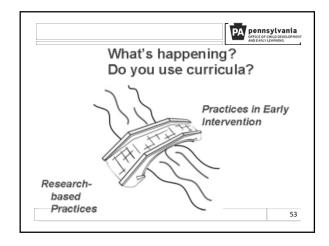


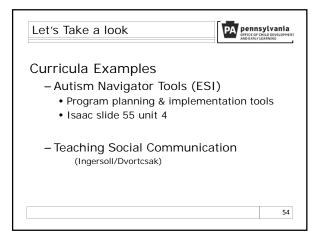




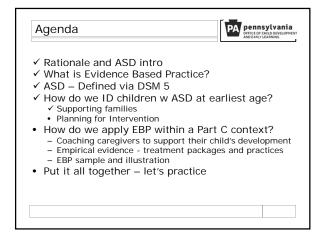


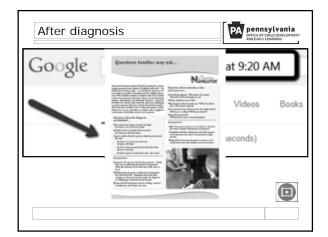












Supporting Families

Stages like grief, denial, anger/depression, prior to reaching acceptance

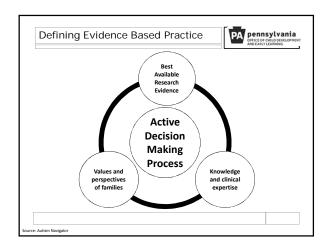
Not linear stages – e.g. birthdays

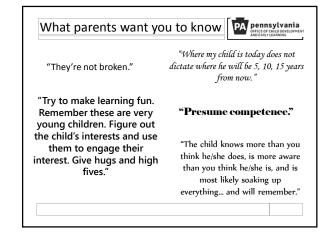
Don't wait to offer support!

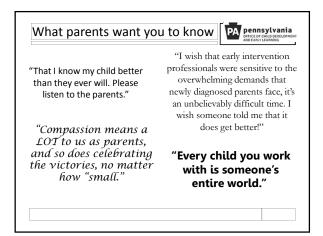
Emotions serve a function

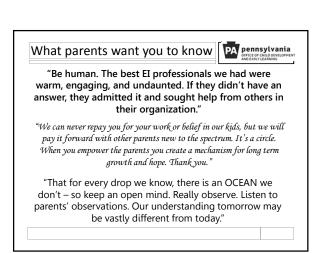
"Acceptance is hard for some of us. It is not a straight line, but a process, and a very bumpy road. Some of us have to accept this over and over, because we continue to creep back into denial where life feels safe, if only in that moment. If that's where we are that day, be gentle with our broken souls, for we are mourning the loss of our preconceived notions of motherhood and trying desperately to adjust to the new normal of our difficult, but rewarding, lives with our amazing children."

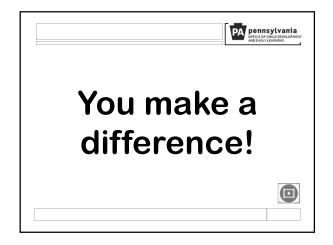
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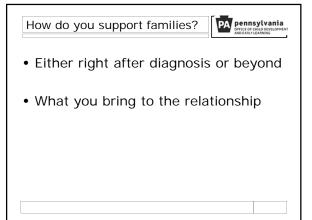


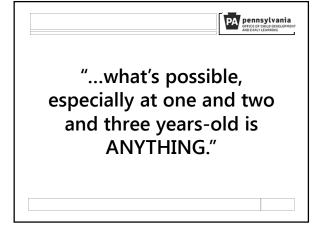


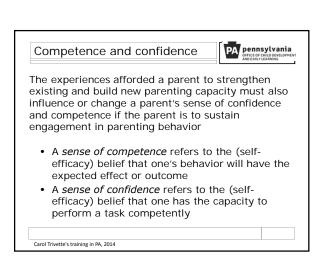


"...EI is needed just as much for the parents as it is for the children, be sure to teach us too!"



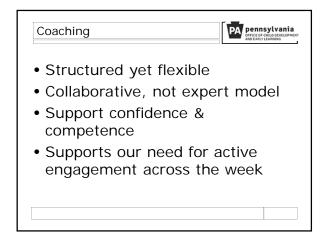


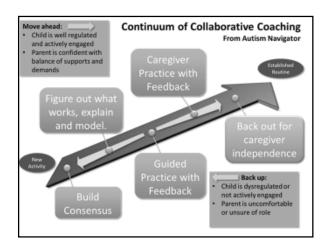


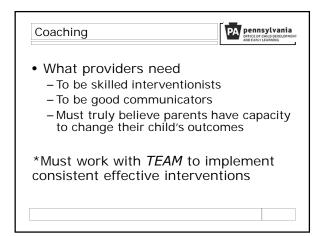


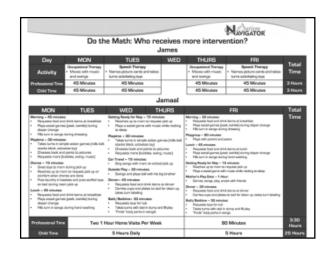
Practice new skills in a safe environment
 Structure of routines support parent and child learning
 Repetition allows parent to become competent, then confident

Children learn by doing
 Everyday activities offer many opportunities
 IDEA Part C regulations
 Using what the family needs and wants to do is a natural outcome for child
 Goal is to support their participation, interaction and independence

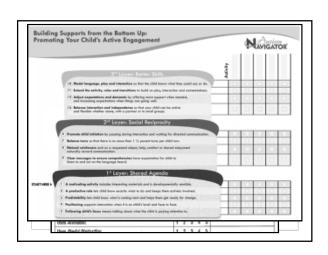


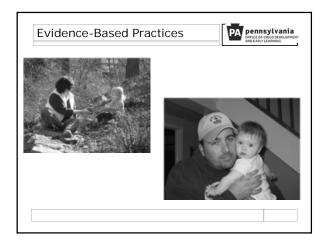


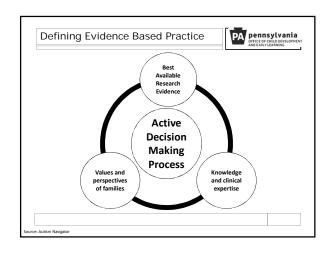




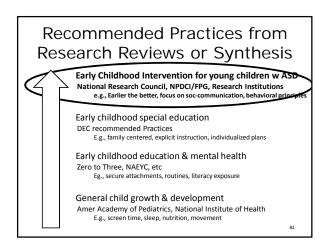






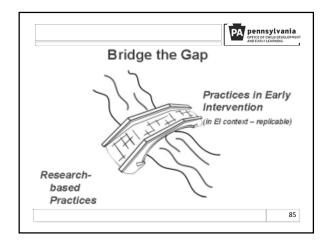


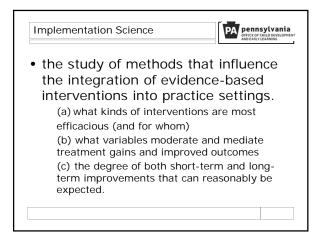
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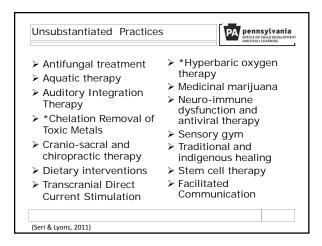
Identified outcomes related to the core features of autism
 Reviewed literature related to these outcomes as well as the key words autism, ASD, and autism spectrum, limited by age (birth – 21)
 Identified and grouped teaching interventions that addressed these outcomes/domains
 Determined criteria and whether an evidence base supported the practices

Statistical technique for combining the findings from independent studies
 Used to assess the clinical effectiveness of interventions by combining date from research trials
 Provides a precise estimate of treatment effect-weighing the size of study results
 Validity of MA depends on the quality of the systematic review on which it is based





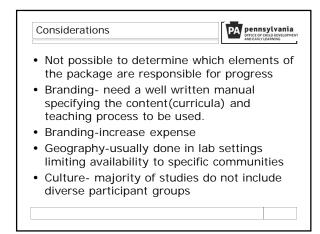






Tested in high quality research designs and found to be efficacious
 Comprehensive Treatment Models - conceptually organized packages of practices and components, designed to address a broad array of skills and abilities of C w/ASD &F
 Focused Interventions- individual instructive practices or strategies that teachers or practitioners use to teach specific educational targets-skills and concepts- to C w/ASD.

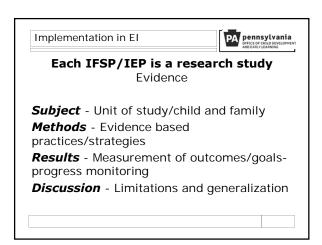




Determine which teaching approaches appear most effective for teaching specific skills given certain profiles of child and contextual characteristics.

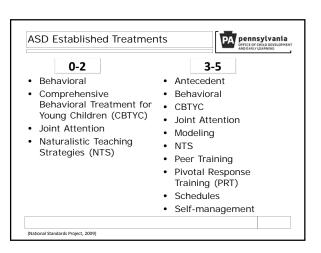
 Autism is a spectrum disorder.

 If you have seen one child with autism....



Antecedent-based Interventions
 Functional Behavioral Analysis
 Modeling
 Naturalistic intervention
 Parent —mediated Implemented Intervention
 Privotal Response Training
 Prompting
 Reinforcement
 Social Skills Training
 Video Modeling

 Otom, Co., Shaw, Kucharczyk, 2014, Evidence Rased Early Identification and Intervention for Infants and Toddlers with ASD and Thate Familiae. CFC Confenence generatation







- We use behavioral practices- not packages of interventions generally- when we are working and playing with kids and coaching families to support their child's development.
 - reinforcement,
 - prompting,
 - modeling, etc.
- Be aware that EBP are not something that only BCBAs or specialists in ABA do.
- We use those strategies Important to know <u>why</u> we apply a strategy for a particular child when working on an outcome.

Focused Interventions



- · Antecedent-based Interventions
- Functional Behavioral Analysis
- Modeling
- Naturalistic intervention
- Parent –mediated Implemented Intervention
- Pivotal Response Training
- Prompting
- Reinforcement
- Social Skills Training
- · Video Modeling

Ddom, Cox, Shaw, Kucharczyk, 2014, Evidence-Based Early identification and Intervention for Infants and Toddlers with ASD and

Common Program Elements Model Programs for Young Children with ASD

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- · Predictability and Routines
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- ❖ Family Involvement
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National Research Council, Dawson, et a

ASD Emerging Practices across ages



- Augmentative and Alternative Communication Devices (AAC)
- · Cognitive Behavioral Intervention Package
- · Developmental relationship-based Treatment
- Music therapy
- Massage/Touch Therapy
- Exposure Package
- Exercises
- Computer-assisted teaching
- Complementary and Alternative Medicine (CAM)
- Other

(National Standards Project, 2009)

Antecedent-Based Strategies



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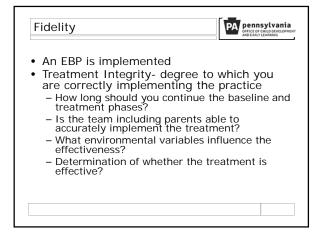
- Arranging the environment
- Changing the schedule/routine
- Structuring time
- Using highly preferred activities/activities to increase interest level
- · Offering choices
- Altering the manner in which instruction is provided
- Enriching the environment so that learners with ASD have access to sensory stimuli that serve the same purpose as the interfering behavior (e.g., object to hold)
- Implementing preactivity interventions (cue the next activity or schedule change)

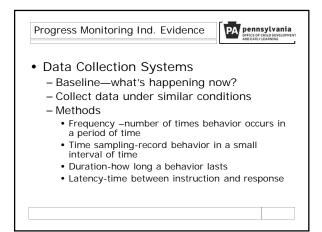
Video



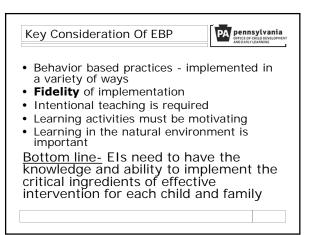
- Child/mother diaper changing. Many examples of antecedent strategies are displayed.
- Pictures
- Schedules
- · Highly preferred activities-
- Offering choices
- Object to hold
- Altering the sequence in which the routine is implemented

This child is now available for interactions with mom during the routine.









Additional Resources/Training www Resource Handout Autism Navigator See handout: About the Course Talk to your El Supervisor in December/January 2014 if interested Autism Professional Development in El – Opportunities to be announced

