Implementing Evidence-Based Practices in Adapted Physical Education Service Delivery



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For this morning

• What is an evidence-based practice (EBP)?

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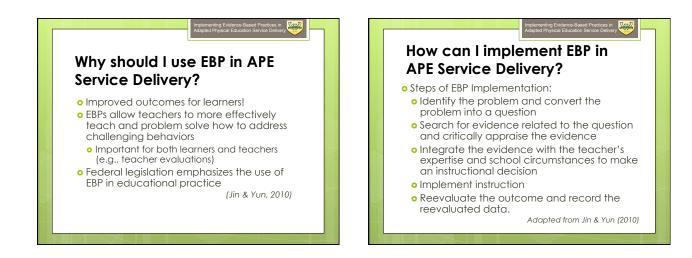
- Why should I use EBPs?
- How can I use EBPs to plan for and create a more inclusive program?
 - Sharing of selected EBPs
- Addressing Specific Audience Needs/ Questions



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What are Evidence-Based Practices?

- Evidence-based practices (EBP) are instructional strategies, interventions or teaching programs that consistently produce positive results when experimentally tested (Marder & Fraser, 2012; Simpson, 2005).
- Educators are required by professional standards and federal regulations to implement EBP (NCLB, 2002).



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Identifying EBPs in Education

- Research studies published in adapted physical activity, special education, education journals, etc.
- National Centers
- Example: National Autism Center)
- National Organizations
- Example: Council for Exceptional Children (CEC) - https://www.cec.sped.org/Standards/ Evidence-Based-Practice-Resources-Original

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Example: National Autism Center

• The National Autism Center's National Standards Report (2009), identified the 11 interventions as having "compelling scientific evidence":

Antecedent Package	Peer Training Package	
Behavioral Package	Pivotal Response Treatment	
Comprehensive Behavioral Treatment for Young Children	Story-based Intervention Package	
Joint Attention Intervention	Self-management	
Modeling	Schedules	
Naturalistic Teaching Strategies		

Evidence-Based Practices in Adapted Physical Education

How to Implement EBP and Support Learners with Special Learning Needs

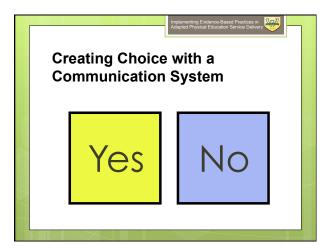
Antecedent Strategies

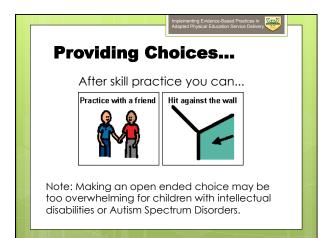
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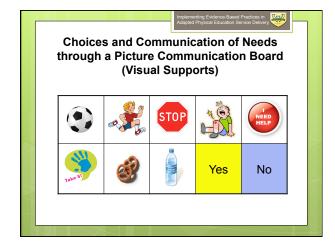
- Involve changing situational events that typically occur before the challenging behavior.
- Changes are made to increase the likelihood of success or reduce the likelihood of problems occurring.

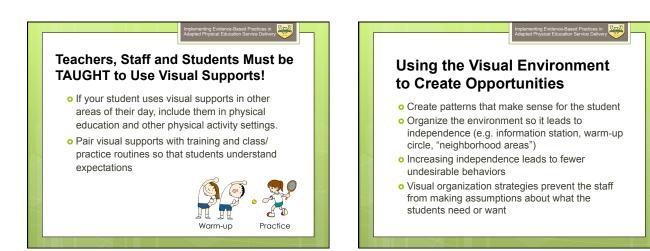


- Errorless learning;
- Incorporating special interests or ritualistic/restrictive activities into tasks;

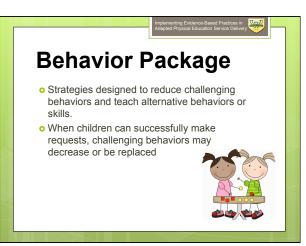












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Behavior Package

- Examples include but are not limited to:
 - Chaining
 - Positive reinforcement
 - Token economy
 - Mand training

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Reinforcement:

- If behavior that is not reinforced is not repeated... by default then - any behavior that <u>is repeated</u> must somehow be reinforced.
- By controlling/manipulating the reinforcement, we can increase or decrease behaviors.
- When possible, make yourself or the physical activity the reinforcement.



Reinforcement in PE

- Depersonalize the behavior.
- Look at the behavior as an outsider. What does the student "get" by engaging in the behavior?

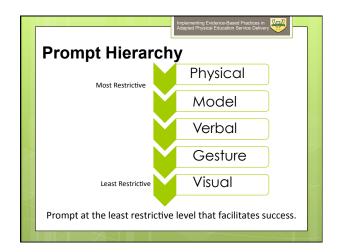
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- Find an appropriate way to help the student get what they want/need.
- Teach the student an alternative behavior that achieves the desired function.
- Reinforce with the student engages in the appropriate behavior. When the student engages in the target behavior, withhold reinforcement or reinforce a peer who is engaging in the desired behavior.

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Reinforcement in PE

- Shaping behaviors
 - Teach skill using visual supports
 - Provide the lowest level of prompting required for success (approximation)
 - Systematically reinforce the students successive approximation; shaping the performance to proficiency.
 - Do not reinforce incorrect form reinforce correct components.



Remember BEHAVIOR is COMMUNICATION!

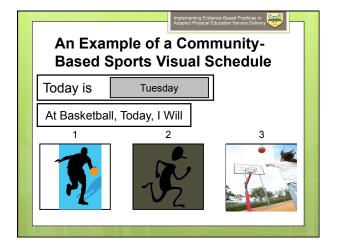


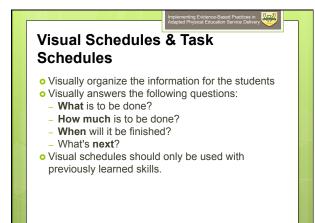


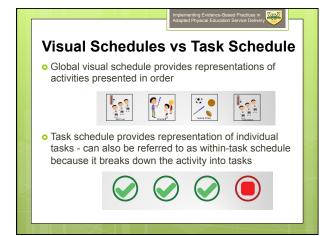
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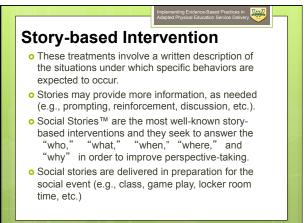
Schedules

- These interventions involve the presentation of a task list that communicates a series of activities or steps required to complete a specific activity.
- Schedules are often supplemented by other interventions such as reinforcement.
- Schedules can take several forms including written words, pictures or photographs, or work stations.









sports	I like to play sports.	Implementing Evidence-Based Practices in Adapted Physical Education Service Delivery	
friends	Sometimes I play sports with my friends.		/
winner	l might win.	Sport Example	
winner	It is OK if I do not win.		
shake	At the end of the game I will shake my friend's hand and say "Good Game"		~
fun	Playing sports is fun!		

Modeling or These interventions rely on an adult or peer demonstrating a target behavior (motor or social behavior) with the expectation that the student with a disability would imitate the target behavior.

• Modeling can include simple and complex behaviors.

Modeling

- This intervention is often combined with other strategies such as prompting and reinforcement.
 - Model the overhand throw, then prompt with a gesture.
- Modeling can be done through live modeling, video modeling, animations, etc.

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Embedded Intervention for Children with Special Needs

- Embedding Intervention into Routine Activities
 - Teaching and providing opportunities for students with disabilities to learn and practice skills and/or behaviors across the curriculum and across daily activities
 - Maximizing the functionality of developmentally appropriate routines and activities

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Embedded Instruction via a Routine-Based Model

- Focus on the daily routines or activities like circle time, PE/APE warm-up, recess, transitions between classes, etc. as a context for learning and an opportunity for embedding
- Teachers give students opportunities to work on IEP or IFSP goals during these daily routines or activities instead of special instructional time.

Parker Will Walk Unassisted for 10 Feet

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- Set up the classroom and gym in 10 foot segments like 10 ft. between stations.
- During daily activities, the teacher can easily monitor progress (e.g., Parker walked unassisted between 4 of the 6 stations).
- Embedding the intervention requires teachers to make sure opportunities for practice are provided and that there is PURPOSE in the practice (i.e., walking unassisted for 10 ft.) – motivation is key.

With all of the EBPs...

- Collaboration with others is key!
- Distributed practice, supported by EBPs, of skills and behaviors is more effective
- Progress must be monitored and changes made if the EBP is not effective for the specific situation



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