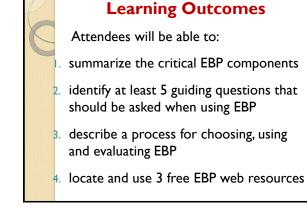




Paul G. LaCava, PhD



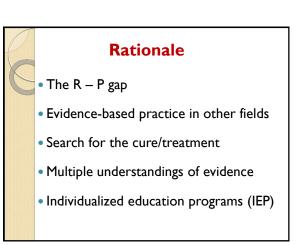


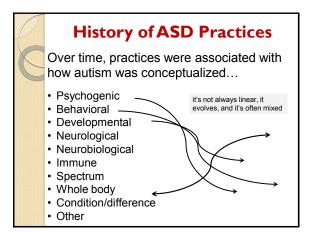


Rationale

- Ethical and moral imperatives
- Legacy of ineffective, overvalued and nonvalidated methods
- Limited opportunities to make a difference (need for timely use of maximally effective strategies)
- How much time is lost?

Simpson, 2016



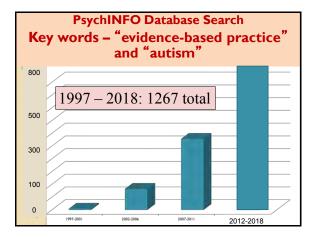


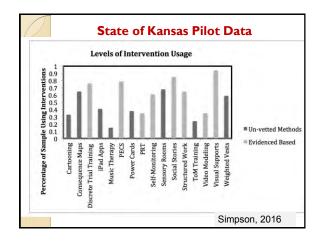
History of ASD Practices

Educators' decision making strategies, policy formation and judgments of effectiveness of educational techniques:

- Personal experience and personal beliefs
- Common sense
- Expert testimony
- Political, spiritual and administrative influence
- Science
- other

✓Simpson, 2016





| Terminology | | | | |
|----------------------|---------------------------------------|--|--|--|
| Evidence-based | Teaching | | | |
| Peer reviewed | Practice | | | |
| Scientifically based | Intervention | | | |
| Research based | • Treatment | | | |
| Effective | • Model | | | |
| Validated | Package | | | |
| Established | 0 | | | |
| Promising | Training | | | |
| Emerging | Special Education | | | |
| And others | • And others | | | |
| | | | | |

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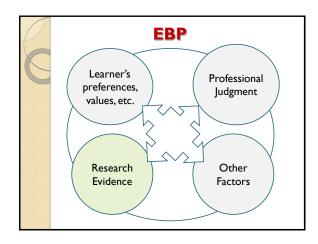
•

EBP is typically seen in two ways

I. Programs, interventions, methods, etc. that have been proven to be effective by rigorous research and review standards (Cook and Odom, 2013)

2. **Process** of integration of best research evidence with other factors, such as clinical expertise, patient values, etc. (Institute of Medicine, 2001)

Prizant called these narrow and appropriate approaches to EBP (2011)





Every Student Succeeds Act (ESSA) 2015 Reauthorization of NCLB The term "evidence-based" is used 62 times... Evidence-based interventions, strategies, activities, professional development, programs, etc. Use of EB interventions, etc. is required for federal grants 4 categories of evidence Strong, moderate, promising, "strong theory"

• Pros and cons



Types of EBP Reviews

- Literature reviews or meta-analyses of one particular intervention or method
- Reviews of a single area/domain
- Broad reviews of a range of ASD practices. These include evaluations of comprehensive programs or focused interventions or both.

Committee on Educational Interventions for Children with Autism – National Research Council 2001

- birth to 8
- · diagnosis & assessment
- · role of families
- educational goals
- · effective interventions
- public policy
- personnel preparation
- research

Components of an effective program include...

- Early intervention
- Active engagement in intensive programming
- Full day or equivalent, 5 days week, year round
- 15-20 minutes intervals of planned activities
- 1:1 or small group to meet individual needs

(National Research Council, 2001, p.6)

Focus of interventions include...

- Functional, spontaneous communication
- Social instruction
- Cognitive development
- Play skills
- Proactive approaches to problem behaviors

(National Research Council, 2001, p.6)

Examples of EBP Reviews

- Simpson et al. (2005). ASD: Interventions and Treatment for Children and Youth.
- National Autism Center (NAC). (2009). Evidence-Based Practice and Autism in the Schools.
- Reichow et al. (2011). Evidence-Based Practices and Treatment for Children with Autism.
- Young et al., Centers for Medicaid and Medicare Services (CMS). (2010). ASD Services: Final report on Environmental Scan.

Examples of EBP Reviews

- Wong et al., National Professional Development Center (NPDC). (2010). Evidence-Based Practices for Children, Youth and Young Adults with ASD.
- Weitlauf et al., Agency for Healthcare Research and Quality (AHRQ). (2014). Therapies for Children with ASD: Behavioral Interventions Update.
- Volkmar et al., American Academy of Child and Adolescent Psychiatry (AACAP). (2014). Practice Parameter for the Assessment and Treatment of Children and Adolescents with ASD.

Review Considerations

- Review differences
- Gender
- Race/ethnicity
- Age
- Other

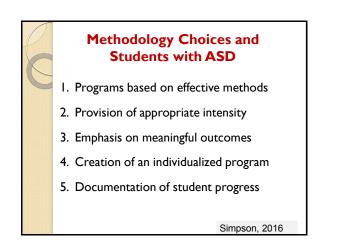


THE NATIONAL MODESSIONAL DEVELOPMENT CENTER ON Wong et al., 2015

- In 2007, the NPDC had identified 24 EBP
- 2015 update reviewed focused behavioral, educational or developmental interventions for children and youth ages birth to 21
- Reviewed literature (1990–2011) with strict criteria and rated each method as: EBP or other interventions with some support

Wong et al. Findings

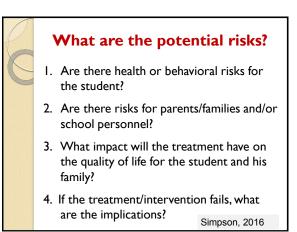
- Included information on definitions, outcomes, and participants for:
- 27 **EBP** including reinforcement, prompting, DTT, time delay, modeling, PECS, etc.
- 24 other interventions with some support including music therapy, sensory diet, touch therapy, AIT, direct instruction, etc.

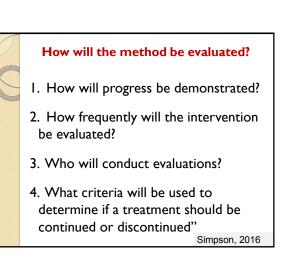


What are the anticipated outcomes of the option? 1. Do outcomes promoted by an option match a student's identified needs? 2. Does the option promote significant educational gain or merely address symptoms? 3. How similar is the student to others who have benefited from the

approach?

Simpson, 2016





What proof exists to support the efficacy of the method?

+. Is the treatment published in peer-reviewed journals?

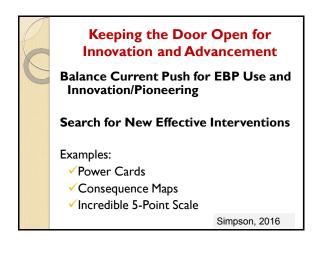
- 2. Does efficacy information come from a variety of sources?
- 3. Are the studies validating effectiveness of high quality?
- 4. Is empirical validation available, or does support come primarily from personal testimonials?
- 5. Do proponents claim the option has universal utility?

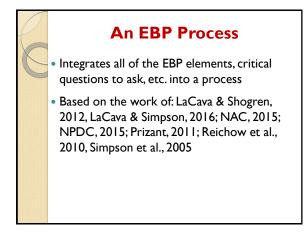
Simpson, 2016

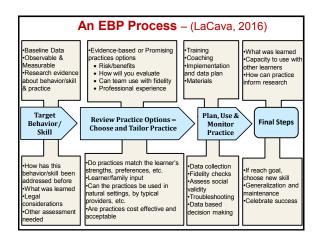
What options would be excluded if a particular method was adopted?

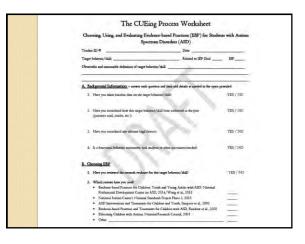
- 1. How does the treatment rate in terms of restrictiveness and intensity?
- 2. Are there less restrictive/intensive alternatives that may be equally effective?
- 3. Are there other options that are better researched than this one?
- 4. Does the treatment option consider the functional communication and socialization needs of the student?

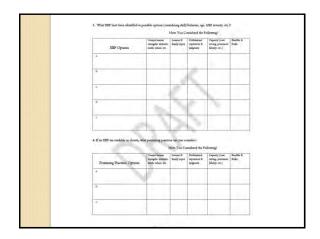
Simpson, 2016

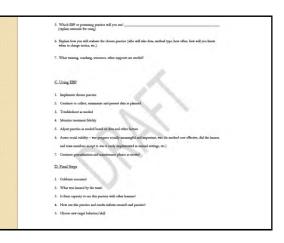


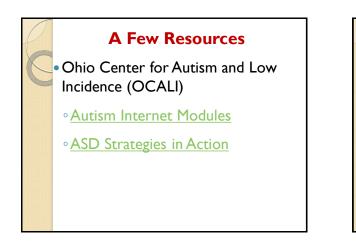


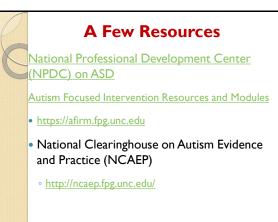






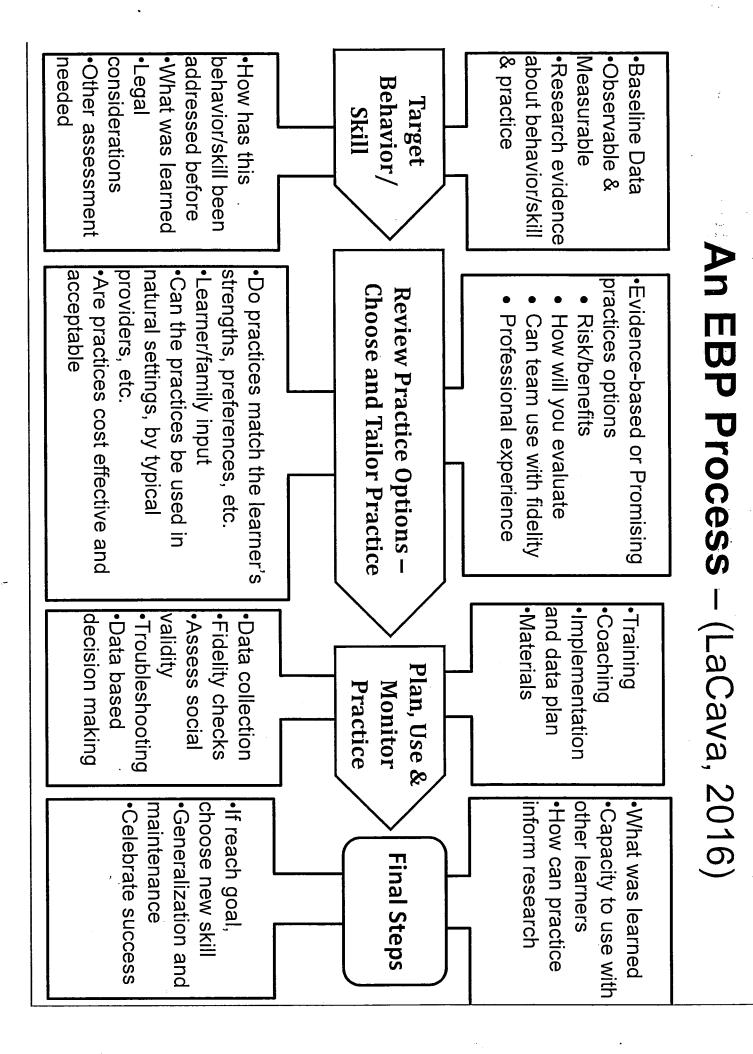












The CUEing Process Worksheet

| Choosing, Using, and Evaluating Evidence-based Practices (EBP) for Students with Autism Spectrum Disorders (ASD) | | | | | | |
|---|--|----------|--|--|--|--|
| Teacher ID # | | | | | | |
| Target behavior/skill: | | BIP | | | | |
| Observable and measurable definition of target behavior/skill | : | ····· | | | | |
| <u>A. Background Information</u> – answer each question and | then add details as needed in the space | provided | | | | |
| I. Have you taken baseline data on the target behavior/s | | YES / NO | | | | |
| 2. Have you considered how this target behavior/skill b (practices used, results, etc.)? | een addressed in the past | yes / no | | | | |
| 3. Have you considered any relevant legal factors? | | yes / no | | | | |
| 4. Is a functional behavior assessment, task analysis or o | ther assessment needed? | yes / no | | | | |
| <u>B. Choosing EBP</u> | | | | | | |
| I. Have you reviewed the research evidence for this targe | et behavior/skill? | YES / NO | | | | |
| 2. Which reviews have you used? Evidence-based Practices for Children, Youth and Professional Development Center on ASD, 2014 National Autism Center's National Standards Pro ASD Interventions and Treatments for Children Evidence-based Practices and Treatments for Chi Educating Children with Autism, National Resea Other | /Wong et al., 2015 oject Phase 2, 2015 and Youth, Simpson et al., 2005 ldren with ASD, Reichow et al., 2010 | | | | | |

3. What EBP have been identified as possible options (considering skill/behavior, age, ASD severity, etc.)?

| EBP Options | Unique learner strengths, interests, needs, values, etc. | Learner & family input | Professional experience & judgment | Capacity (cost, setting, personnel, fidelity, etc.) | Benefits & Risks |
|-------------|--|---------------------------|--|---|---------------------|
| a. | | | | | |
| b. | | | | | |
| с. | | | | | |
| d. | | | | | |
| е. | | | | | |

Have You Considered the Following?

4. If no EBP are available or chosen, what promising practices can you consider?

Have You Considered the Following?

| Promising Practices Options | Unique learner strengths, interests, needs, values, etc. | Learner & family input | Professional experience & judgment | Capacity (cost, setting, personnel, fidelity, etc.) | Benefits & Risks |
|-----------------------------|--|---------------------------|--|---|---------------------|
| a. | | | | | |
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| с. | | | | | |

- 5. Which EBP or promising practice will you use? _ (explain rationale for using)
- 6. Explain how you will evaluate the chosen practice (who will take data, method type, how often, how will you know when to change tactics, etc.).
- 7. What training, coaching, resources, other supports are needed?

C. Using EBP

- I. Implement chosen practice
- 2. Continue to collect, summarize and present data as planned
- 3. Troubleshoot as needed
- 4. Monitor treatment fidelity
- 5. Adjust practice as needed based on data and other factors
- 6. Assess social validity was progress socially meaningful and important, was the method cost effective, did the learner, and team members accept it, was it easily implemented in natural settings, etc.)
- 7. Continue generalization and maintenance phases as needed

D. Final Steps

- I. Celebrate successes!
- 2. What was learned by the team?
- 3. Is there capacity to use this practice with other learners?
- 4. How can this practice and results inform research and practice?
- 5. Choose new target behavior/skill