

#### Laura Anthony, PhD

Associate Professor
Dept of Psychiatry, School of Medicine
U of CO Anschutz Medical Center
Pediatric Mental Health Institute
Children's Hospital of Colorado

Tri-State Webinar Fall 2018

Conflict of Interest: Royalties on *Unstuck* manuals

Laura. Anthony@UCDenver.edu

#### Now for Part 3!

- Finish: how to teach EF skills
- How do we know that Unstuck and On Target works?
- Additional resources
  - NEW!! Online parent training program
  - What's next for Unstuck



# Teach How to Be Flexible: Self-Regulatory Scripts

- ✓ Avoid too much talking
- ✓ Refer to the big picture
- ✓ Build an alliance—
  you're collaborating!
- ✓ Need to be practiced







#### How to be Flexible: Words and Scripts

Flexible

Great job being flexible

**Unstuck** 

I'm getting stuck on \_\_\_\_\_how can I get unstuck?

Compromise

 Let's compromise so we both get some of what we want

Plan A/Plan B What is our plan?

What is our Plan B?



©2011, 2018 Brookes Publishing, Inc

## An Unstuck Email Exchange:

• Dear Ms. Lowrey

• Dear Sam

• Dear Ms. Lowrey

• Dear Sam

3

©Ivymount School

#### Modeling Plan A/ Plan B & Little Deal



4

Mr. Tome, School Within a School

#### **Next Video**

The back story on this next video is that Monica Werner went in to observe a class and the video the teacher wanted to show wouldn't work. The teacher frantically scrambled around asking kids to help her be flexible and make plans. They all shouted plans out to her, and then, hurrah, the video worked. The teacher is reviewing the plans here:



## Problem Solving Plan A, B, C



**Ivymount School** 

## Flexibility Scripts

Big Deal/Little Deal

 How can we make this big deal into a little deal?

Choice/No Choice

Is this a no choice situation?

Handling the Unexpected

- What will change?
- · What will stay the same?
- Why is the change happening?



©2011, 2018 Brookes Publishing, Inc.

#### Modeling Flexibility Scripts

- Accidents: After a child spills something at the lunch table, you could say, "When that spilled and was starting to drip on me, I felt like it was a really Big Deal, but then I realized I could make it a Little Deal by mopping it up and you helped clean it up. Thanks."
- On a play date or at recess. When a child wants to play Legos, but his or her friend wants to play a board game: "How can you be flexible and still reach your goal of having fun with your friend?" "Can you compromise and play a board game first and then Legos? Then you will both get what you want in the end, which is better than not getting what you want at all."
- Unpopular Chores: If you got a parking ticket: "Oh, how I wish paying this parking ticket was a choice situation..."



# GWPDC script (Goal, Why, Plan, Do, Check)

Goal	To have fun at recess					
Why	Recess is my free time					
Plan A	Ask Johnny if he wants to play soccer					
Plan B	(If J says, "no") Ask Melissa to play soccer					
Plan C	Swing on the swings					
Do	Follow my plans					
Check	Did I meet my goal?					
	Which plan worked?					
	Would I do it the same or different next time?					
	©2011 2018 Brookes Publishing					

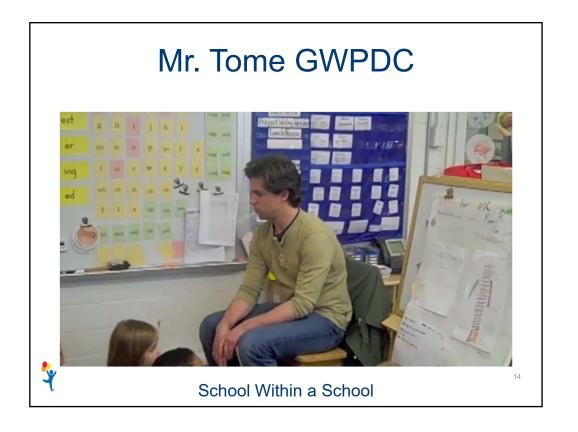
©2011, 2018, Brookes Publishing, Inc

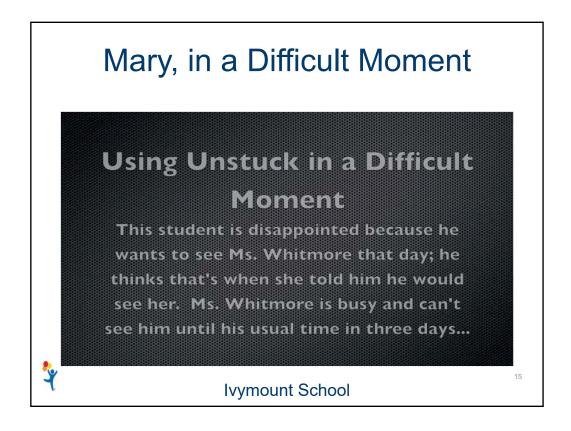
# 3 Videos Demonstrating How to Use These Strategies in 3 Different Ways

- Individual model using lots of language and a visual support with a particularly cute and wonderful 11 year old
- A full class model with primary school kids
- A model of how to use it in a difficult moment





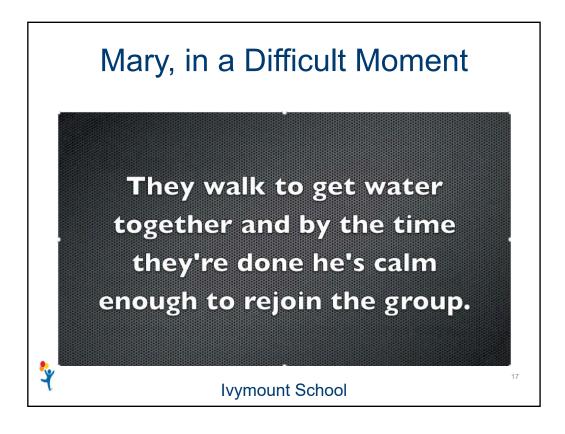




## What about you?

 If you were Mary, what would be the first thing you would try?





How Can I Train Parents and Caregivers in Unstuck?

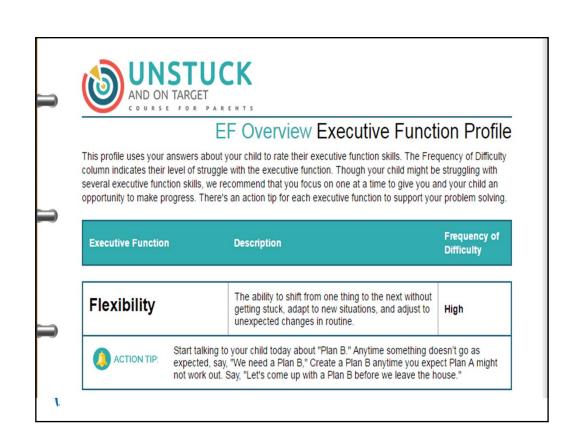


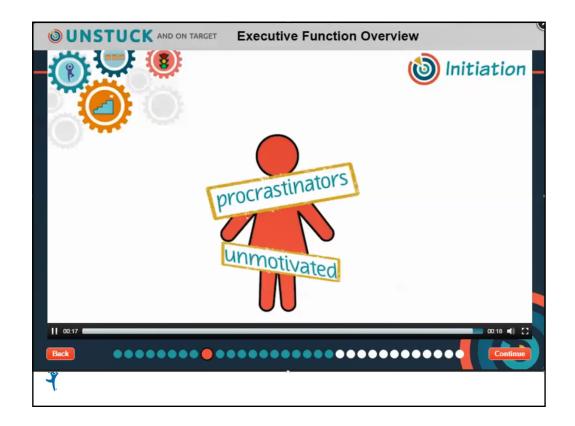
#### E-Unstuck

- SBIR funded to 3C Institute (NIMH 1R44MH109193-01)
- Developed and tested parent training modules on an e-learning platform
  - Adaptation of our parent book and our parent trainings for ASD



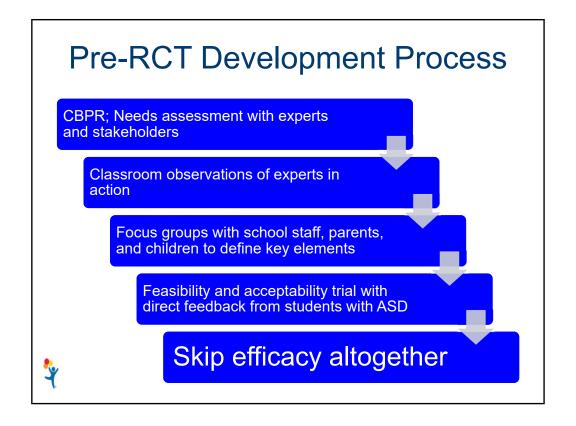


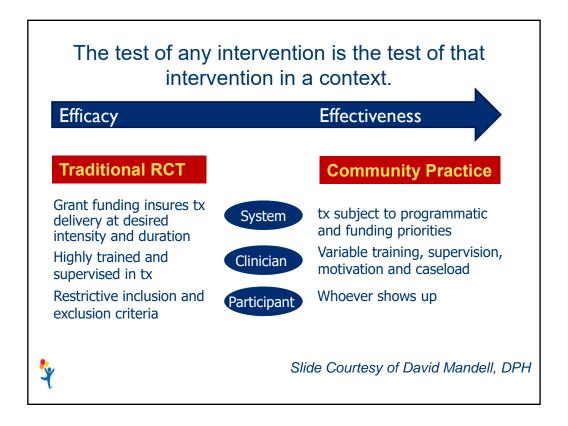


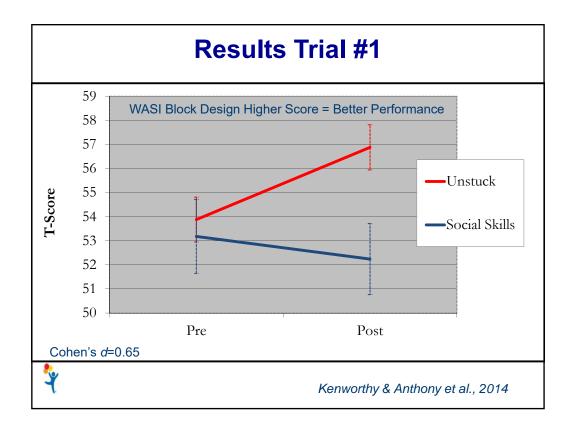


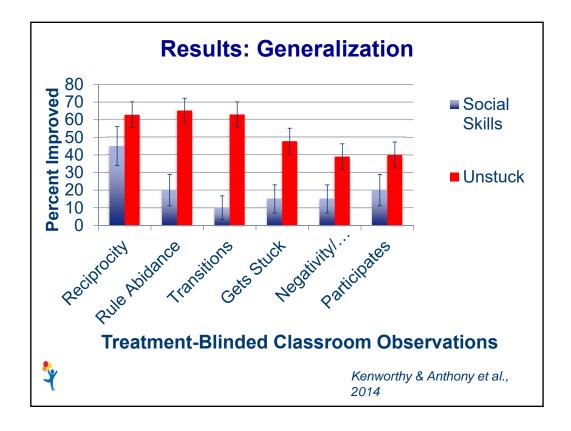












# Study #2: Disparities Comparative Effectiveness Trial

- 3<sup>rd</sup> 5<sup>th</sup> graders (48 with ASD and 98 with ADHD) from three school systems in 21 Title 1 schools.
- Random assignment to revised Unstuck and On Target or adapted Contingency Behavior Management

**PCORI AD-1304-**

- Both target EF/Flexibility
- Both must be effective
- Adapted interventions for use with (all at once!!):
  - Title 1 schools
  - Either ADHD or ASD
  - Spanish or English speaking families
  - Greater family involvement
  - Strengths-based, student-centered
- School personnel administer tx in school, + parent and teacher training



Student Demographics				
Age/sex	Mean age 9.7 years; 82% male			
Ethnoracial category (student)				
Latino	32%			
White, Non-Latino	31%			
Black/African-American, Non-Latino	22%			
Multi-racial	11%			
Asian	3%			
Family income range	\$8,796-\$400,000, Mean of \$86,164			
Highest reported parent education per household	3-25 years, Mean 15.14 years			
Language spoken in the home				
Only English	59%			
Only Spanish	14%			
One or more of 12 other languages	27%			
Attended Parent Training in Spanish	21%			

# **Group Leader Demographics**

Profession	Percent (N=127)		
Counselors	27%		
Social workers	23%		
Teachers/other teaching staff	20%		
Special educators	11%		
School psychologists	6%		
Question not answered	13%		



#### Community-Based Participatory Research

### Stakeholder Advisory Board

Yetta Myrick, Chair Vivian Jackson Michael Cordell Megan Berkowitz Rosario Paredes Sara Cooner Bettrys Huffman Michael Bloom Katherine Price Nancy Van Doren Molly Whalen Caroline Butler Laura Njanga Daniel Shapiro



#### Faculty and Staff

Laura Anthony, PI
Lauren Kenworthy, PI
Kristina Hardy
Bruno Anthony
Matt Biel
Alyssa Verbalis
Allison Ratto
Cara Pugliese
John Strang
Catherine Kraper
Lynn Cannon

Kaitlyn Tiplady Meredith Powers Jillian Martucci Katerina Dudley Chelsea Armour Sydney Seese Jonathan Safer Nicole Kahn Rocio Mendez Leah Rothschild Mary Skapek

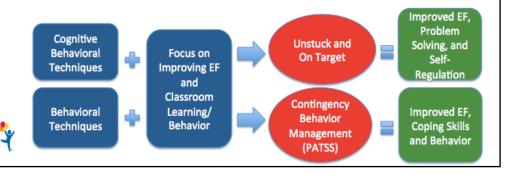


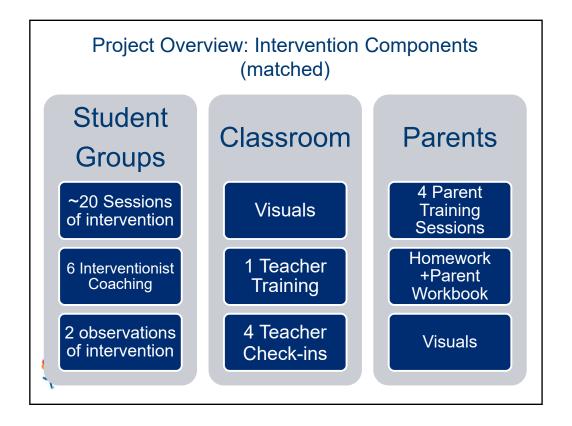
#### System

#### **Project Overview**

A randomized, clustered, parallel comparative effectiveness design:

- Randomized Schools will be randomly assigned (not kids)
- Clustered Treatments will be delivered by school staff and will be matched for "dose" of intervention and training. (Also pragmatic).
- Parallel Follow-up 9 months after they complete treatment to evaluate the maintenance of any gains, thus preventing a cross-over design.
- Adaptive To meet the needs of our community (not parallel after all)









# Blinded Outcomes Pre-Post Paired Sample t-tests ASD

	СВМ			Unstuck		
	N	t	Cohen's d	N	t	Cohen's d
Block Design	25	2.67**	.53 (Med)	19	2.77**	.60 (Med)
CT Flexibility	24	1.24	.25 (Small)	18	1.82*	.43 (Med)
CT Plan	24	1.67	.34 (Small)	19	1.88*	.43 (Med)
Class Obs	24	0.78	.16 (Small)	21	1.93*	.42 (Med)



# Blinded Outcomes Pre-Post Paired Sample t-tests **ADHD**

	СВМ			Unstuck		
	N	t	Cohen's d	N	t	Cohen's d
Block Design	39	1.68	.27 (Small)	49	3.18**	.45 (Med)
CT Flexibility	34	4.00**	.69 (Med)	40	4.43**	.70 (Med- Lg)
CT Plan	34	3.53**	.60 (Med)	48	3.55**	.51 (Med)
Class Obs	40	3.32**	.52 (Med)	51	4.41**	.62 (Med)
b.						



# Unstuck & CBM are feasible and can be delivered with fidelity in low-income schools and with Spanish or English speaking families

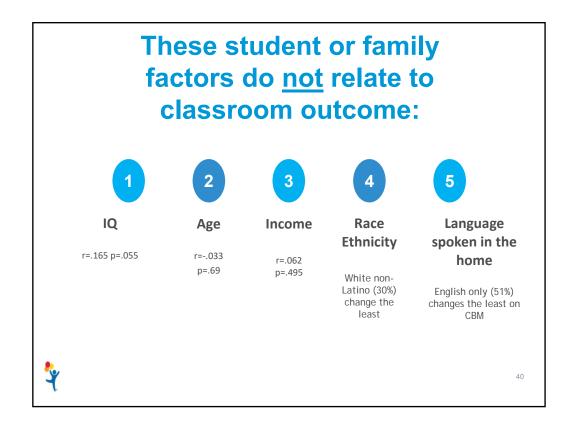
- ► Most school staff could complete both interventions. 79% of the interventionists completed at least 90% of the curriculum (Completion rates: Unstuck= 80% CBM= 79%)
- ➤ School staff could deliver both interventions effectively. Fidelity was good for Unstuck (mean =8.4±1.3) and CBM(mean = 8.6±0.9)
- ▶ AND! 70% of families attended at least 1 family meeting
- ► ADHD kids got better with both interventions, ASD kids responded best to Unstuck

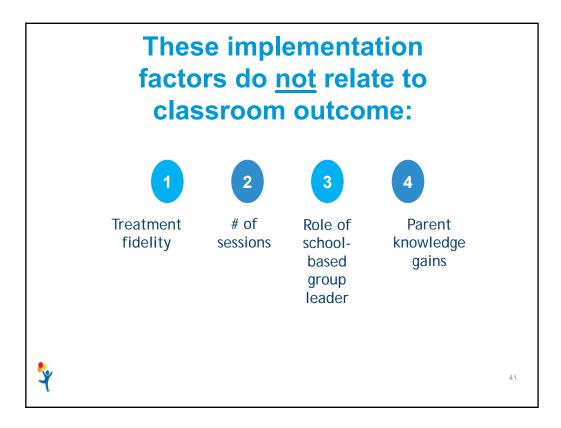


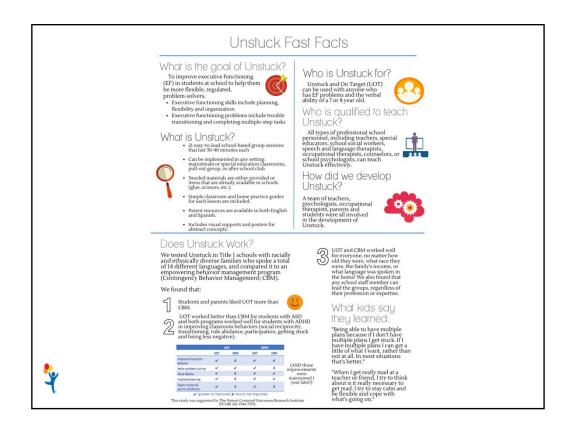
#### Student and Parent Feedback

	Unstuck	СВМ	Statistic
Child: "I enjoyed the group a lot	85%	69%	t=2.018, df=128, p=.046
Parent: "The group was really helpful for my child"	44%	25%	t=2.767, df=117, p=.007
Parent: "Very satisfied"	57%	45%	t=3.015, df=116, p=.003
Parent: "Very likely to use techniques in the future"	65%	34%	t=2.055, df=90, p=.043









## **Effectiveness Summary**

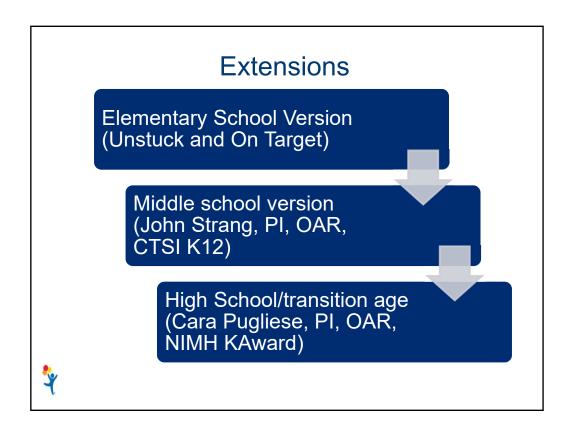
- · Medium to large effects
- Stakeholder input protects us from mistakes, increased acceptability
- Diversity of sample=increased power
- Committed participants (90% Post testing rate;
   70% of parents attended a live training)
- · Good generalization?
- · Easier dissemination and implementation?



# Now You're Ready!







# **GOAL:** Increase your understanding of how to teach executive functions

#### **PLAN**

- 1. Describe the importance of executive functioning
- Teach flexibility, organization & planning skills using specific scripts or vocabulary and other tools

#### CHECK

- 1. Did I get done when I said I would?
- 2. Do you have questions?









From L to R:

Laura Anthony <u>Laura.Anthony@UCDenver.edu</u>
Monica Werner <u>MWerner@caatonline.com</u>
Lauren Kenworthy <u>Ikenwort@childrensnational.org</u>
Katie C. Alexander <u>kt.c.alexander@gmail.com</u>
Lynn Cannon <u>Icannon@ivymount.com</u>



#### THANK YOU

To our funders and the dedicated school staff, children and families who made Unstuck and On Target possible





