# TRANSITION TO POST-SECONDARY EDUCATION AND EMPLOYMENT: SUPPORTING POSITIVE OUTCOMES FOR AUTISTIC ADULTS

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### ADULTS WITH ASD: ANTICIPATING INCREASED REQUESTS FOR SERVICES AND SUPPORTS Prevalence per 1000 of Prevalence increase 8-year old Children 20 from 1 in 150 to 1 in 54 18 18.5 8 year old children 16 16.8 across the US. 14 14.7 14.6 12 10 11.3 The 2002 cohort is now 8 27 years of age. 6 4 2 **Autism and Developmental** 0 **Disabilities Monitoring Network** 02 04 **Centers for Disease Control** 06 08 10 12 14 16



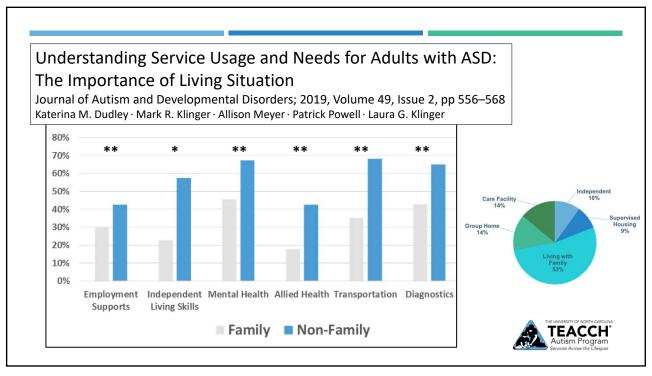
TEACCH ADULT OUTCOME STUDY (278 CAREGIVER SURVEYS) **Supports for Finding** Percent **Current Employment** Found Independently 18% 42% 42% Family Member Support 20% Currently **Employed** 50% **Agency Support** 16% Residential/Vocational 12% Previously **Employed** Facility ■ Never **Employed Employment** 

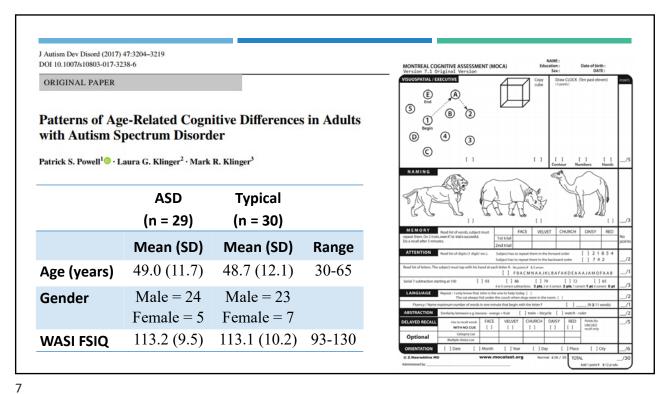
# BEING EMPLOYED IS ASSOCIATED WITH:

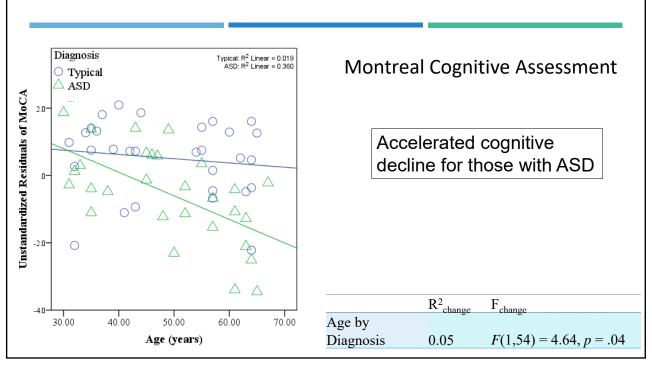
- Increased contact with friends (d=.56, p<.001)</p>
- Fewer symptoms of anxiety (d=.46, p<.001)</p>
- Fewer symptoms of depression (d=.39, p=.002)

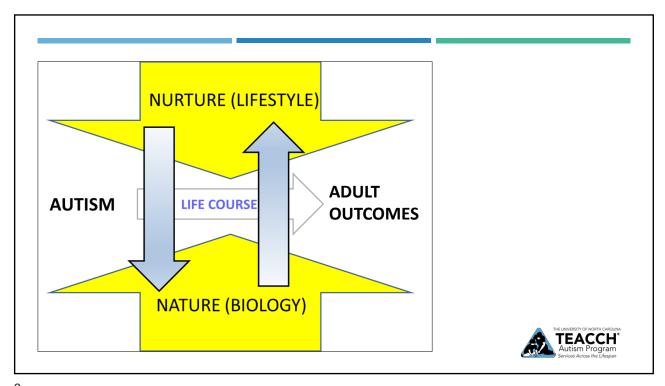


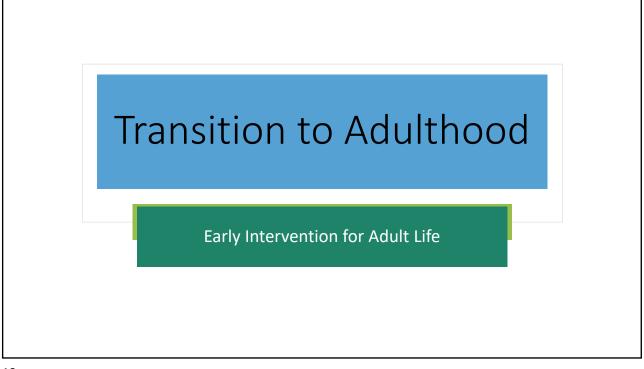
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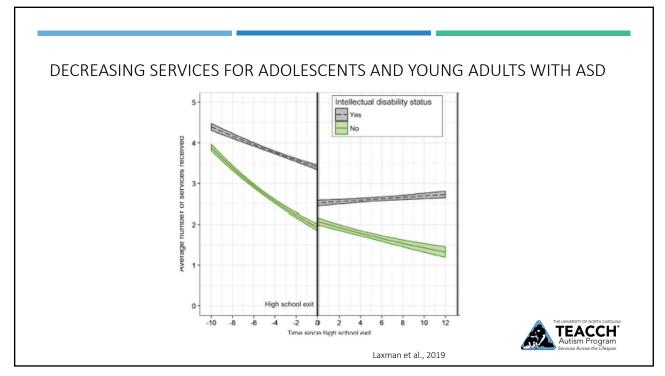
# VOCATIONAL REHABILITATION SUPPORTS

- Increasing access to Vocational Rehabilitation (VR) services for adults with ASD has not improved employment outcomes much across the last decade.
- 33% employment success rate
   (Burgess & Cimera, 2014)





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# EMPLOYMENT & POSTSECONDARY OUTCOMES FOR YOUNG ADULTS WHO HAVE ASD BUT DO <u>NOT</u> HAVE AN INTELLECTUAL DISABILITY

- Three times more likely to have no daytime activities after high school than those with ASD and comorbid intellectual disability (Taylor & Seltzer, 2011)
  - Only 18% received employment services (compared to 86% with comorbid ASD & ID).
- For those that are employed, they switch jobs often, have difficulty adjusting to new job settings, and make less money (Hendricks, 2010).
- Only 39% of students with ASD who started a postsecondary program completed their postsecondary education (Newman et al., 2011)

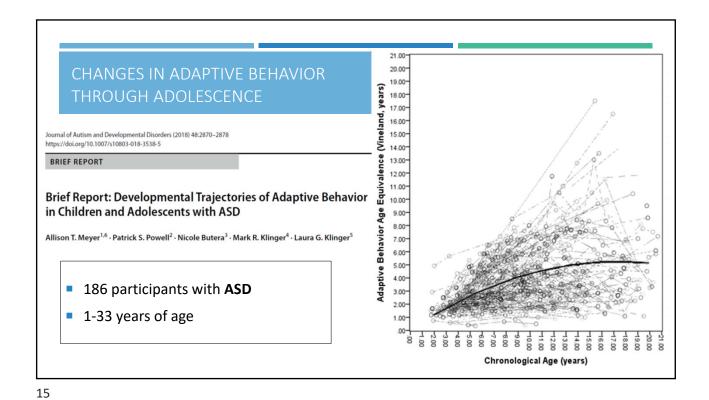
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# IDENTIFYING CHALLENGES FOR A SUCCESSFUL TRANSITION

Daily Living (Adaptive Behavior) Skills
Learning Differences (Executive Function, Attention, Theory of Mind
Emotion Regulation)

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ADAPTIVE BEHAVIOR IS LOWER THAN EXPECTED BASED ON IQ

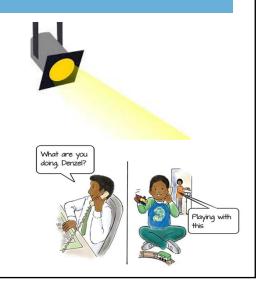
### Bishop & Duncan, 2013
### 417 participants with ASD
### 10-18 years of age

### Figure 2. Mean FSIQ-DLS difference score across three FSIQ groups.

# LEARNING DISABILITIES ASSOCIATED WITH ASD

- Narrow Focus of Attention (narrow spotlight; misses the big picture)
- Poor Executive Function (organization; sequencing)
- Limited Theory of Mind (limited perspective taking)

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### LEARNING DISABILITY VIEW OF ASD **Atypical Performance:** Executive • All 3 areas: 32% **Function** • Two areas: 40% 6% • One area: 19% 18% 12% • None: 9% Narrow Theory of Focus of Mind Attention 10% 5% 8% 181 adolescents Age: 12-16 years Brunsdon et al. (2015) IQ: 55-128; Average: 94

# EMOTION REGULATION CHALLENGES

- Prevalence estimates for comorbid anxiety range from 42% to 79%, with most studies reporting a prevalence rate of 50% (Kent & Siminoff, 2017).
- CBT is effective at reducing anxiety in individuals with ASD.

Journal of Consulting and Clinical Psychology 2018, Vol. 86, No. 3, 205-217 © 2018 American Psychological Association 0022-006X/18/\$12.00 http://dx.doi.org/10.1037/ccp0000285

Training Clinicians to Deliver Group CBT to Manage Anxiety in Youth With ASD: Results of a Multisite Trial

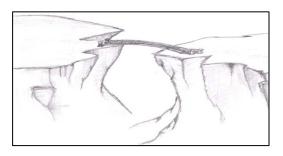
Judy Reaven and Eric J. Moody University of Colorado Anschutz Medical Campus Laura Grofer Klinger University of North Carolina–Chapel Hill

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# BRIDGING THE GAP BETWEEN HIGH SCHOOL AND ADULTHOOD: CREATING TRANSITION SERVICES

### **GOALS:**

- Establish sustainable transition to adulthood programs targeting transition readiness skills.
- Accelerate the translation of research findings to communities by creating and implementing intervention in community settings.



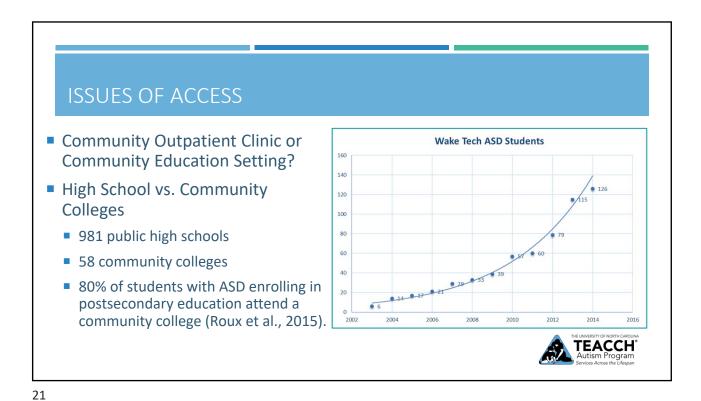
ory Research Program

TEACCH

Autism Program

Autism Program

Goals from NIH Community Based Participatory Research Program



TEACCH SCHOOL TRANSITION TO EMPLOYMENT AND POSTSECONDARY EDUCATION

Glenna Osborne

Tamara Dawkins

Mark Klinger





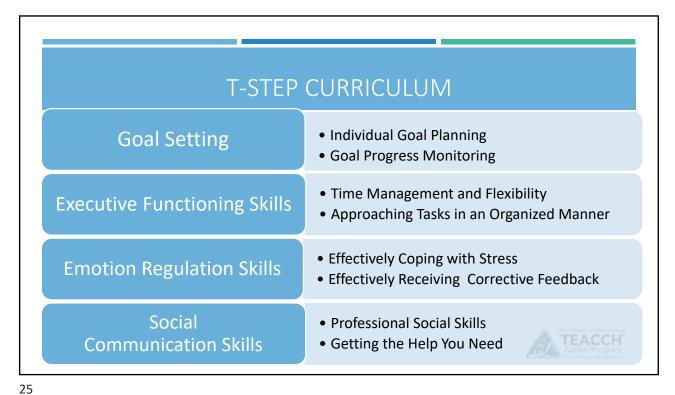


- Collaboration with TEACCH, NC Community Colleges, & NC Vocational Rehabilitation
- Targeted Students
  - 16-21 years with ASD
  - General education high school diploma
- Non-credit earning continuing education course on college campus
  - 12-week academic program
- Co-taught by TEACCH outpatient clinician & community college instructor
- Costs covered by VR (Pre-Employment Transition Services Program)

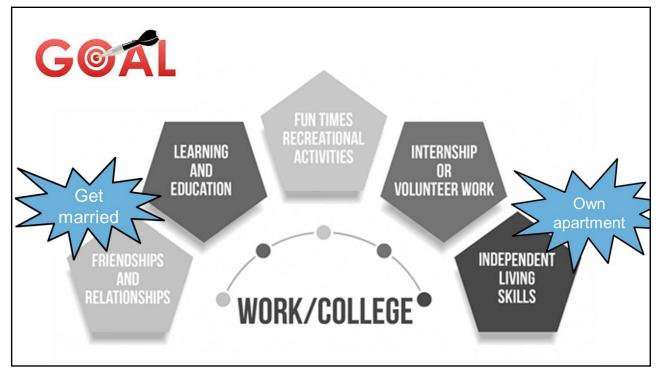
# FOCUS ON TEACHING ROUTINE STRATEGIES

- Teach routine strategies to support learning and generalization.
- Practice strategies across settings to promote generalization



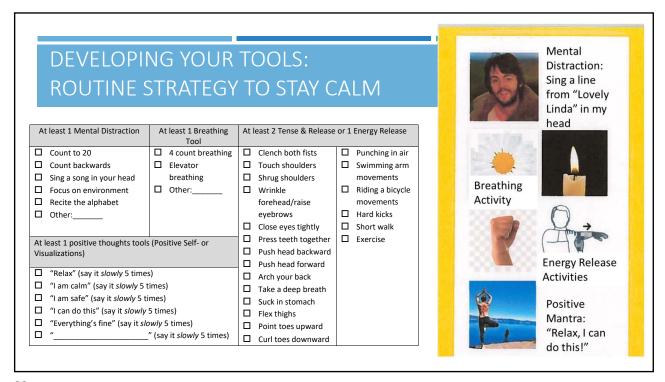


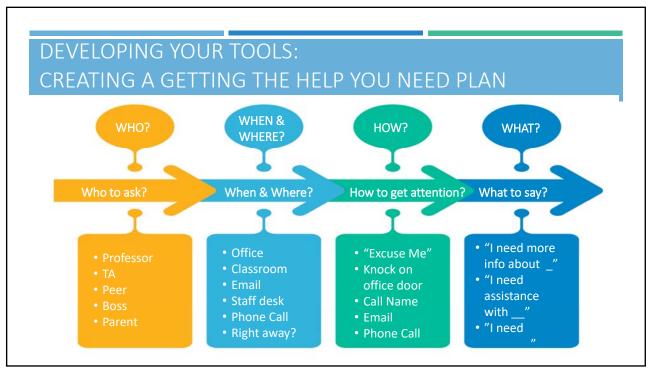
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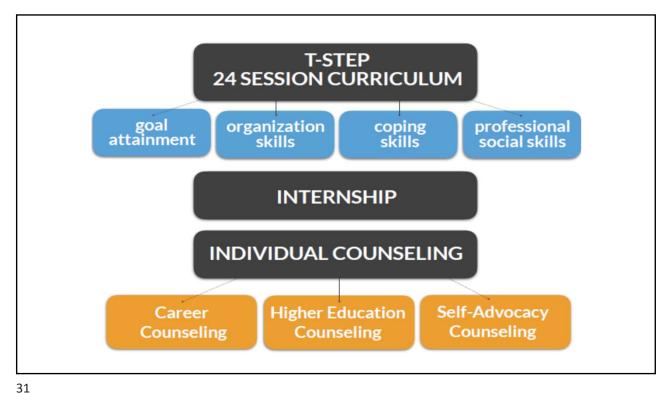


| Goal Action Sheet     |                           |                           |                          |                       |        |
|-----------------------|---------------------------|---------------------------|--------------------------|-----------------------|--------|
| Goals                 | WHAT DO<br>YOU DO<br>NOW? | ACTION STEPS (1 per week) |                          | SHORT<br>TERM<br>GOAL | _ ^    |
| Goal Area:            | I do a few<br>chores      | Choose a meal and         | Cook a meal with my      | Cook some             | apa    |
| Living<br>Responsibly | (make a sandwich)         | go<br>shopping            | mom or dad               | meals on<br>my own    | $\sim$ |
| Goal Area:            | Talk to a few peers at    | Text T-<br>STEP           | Text T-STEP friend to go | Do 3 fun things       | _ ^    |
| Friends in Life       | school                    | friend                    | to movie                 | with friends.         | ma     |

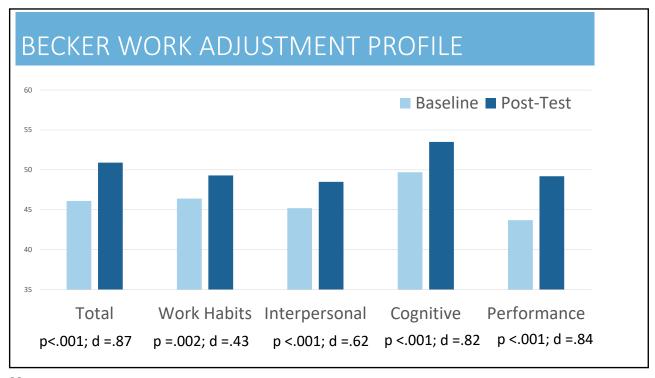
Monday up and ready 6:00 - 7:00 quick breakfast 7:00 - 8:00 breakfast to college prep and 8:00 - 9:00 travel to college English **Developing Your** 9:00 - 10:00 **Tools: Creating Your** Intro to Business 10:00 - 11:00 study Own Schedule for Adult Life 12:00 - 1:00 lunch Key track fixed activities 3:00 - 4:00 prep and travel time 4:00 - 5:00 Work get up and ready 5:00 - 6:00 laundry eating meals 6:00 - 7:00 dinner college and work flexible activities 7:00 - 8:00 clean bedroom weekly chores social, health and recreational activities games/TV

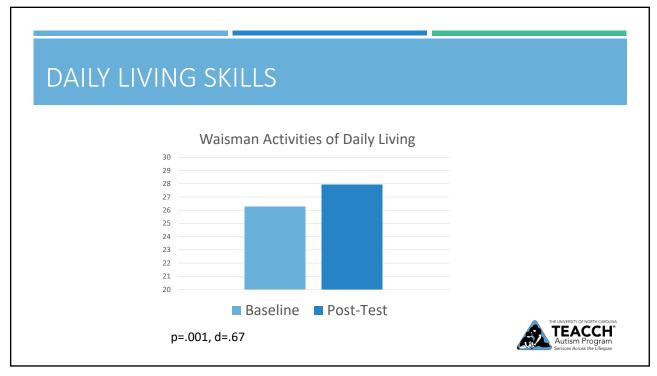


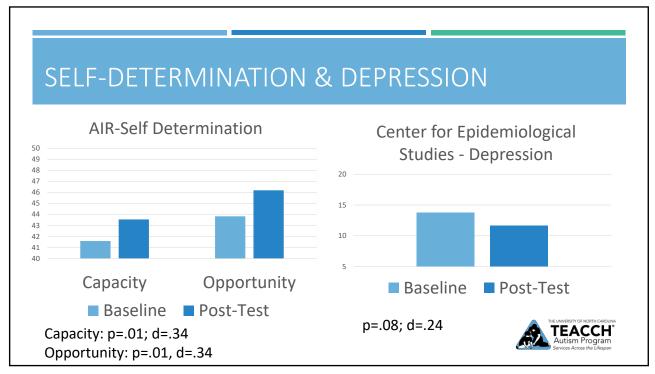




|                         |  | Parent Report   |  |  |
|-------------------------|--|---|--|--|
| OPEN TRIAL              | EFFICACY STUDY                         | <ul><li>Becker Work Adjustment Profile</li><li>Waisman Activities of Daily Living</li></ul>                                 |  |  |
| Community College Sites | 3 Community Colleges<br>8 T-STEP Class | Self-Report  Center for Epidemiological   |  |  |
| # of Students           | 57                                     | Studies – Depression (CES-D)  |  |  |
| Age                     | 19.3 Years (SD 1.4)<br>(17-21 Years)   | <ul><li>AIR Self-Determination</li><li>Observation</li></ul>  |  |  |
| Gender                  | 41 Male; 16 Female                     | Transition Readiness &  |  |  |
|                         |  | Employability Evaluation (TREE)  THE LIMPUTE TO YET OF NORTH CAROLINA  TEACCH  Autism Program  Services Across the Lifespan |  |  |



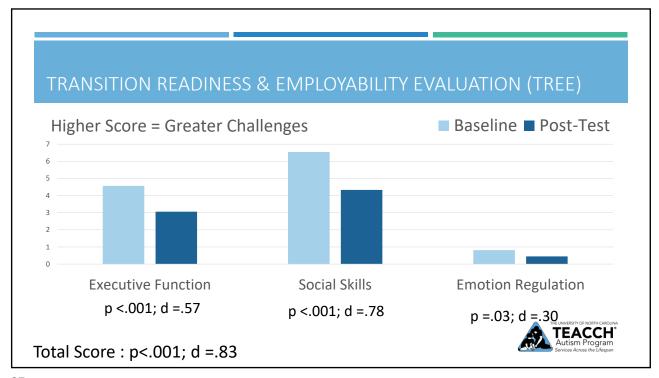




# TRANSITION READINESS & EMPLOYABILITY EVALUATION (TREE) 30-Minute Observation 1. Office Paperwork Task 2. Data Entry Task Presses to Asses T-STEP Skills: 1. Executive Function 2. Social Skills

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3. Emotion Regulation



# STUDENT FOCUS GROUPS (4 GROUPS ACROSS 3 COLLEGES)

### What Did You Learn?

- Ways to be successful as a college student and in the workplace.
- "Adulting;" functioning in the adult world.
- New strategies for getting organized and manage time.
- How to improve social interactions.

## Would You Recommend the Program?

- Definitely. It was worth the time
- Yes. I've already told some people about it.
- Yes, I feel more prepared.



# T-STEP NEXT STEPS

- Transitioned to Online Program During Pandemic
- Conducting 2 Randomized Control Trials
  - Waitlist control design
  - Comparing complete program to counseling services alone







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Front Row: Brianne Tomaszewski, Elena Lamarche; Back Row: Katerina Dudley, Rachel Sandercock, Laura Klinger,

Mark Klinger, Glenna Osborne Tamara Dawkins

Not pictured: Nancy Bagatell, Anna Berman, Jenny Kribbs,

William Lehrer, Linda Varblow



Much Appreciation to Adults with ASD & Their Families



