### SELF-REGULATION, MELTDOWNS AND SENSORY ISSUES

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NOT ALL SLIDES ARE IN YOUR HANDOUTS

#### Disclosure





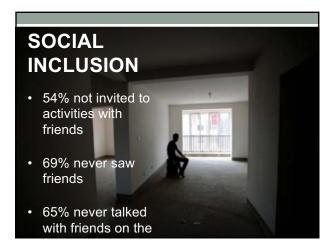
#### Full-time Employment

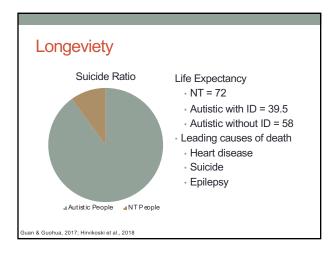


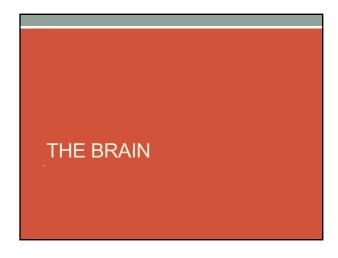


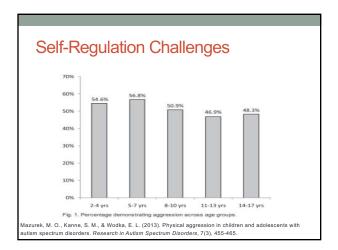
https://www.forbes.com/sites/karenhigginbottom/2018/05/31/the-benefits-of-employing-people-with-autism/#2736ecc0

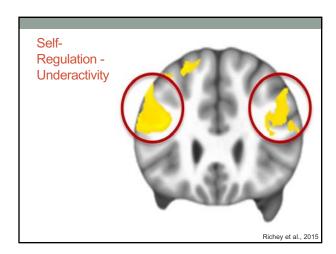




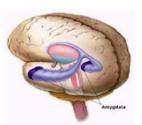








#### Regulation: Amygdala



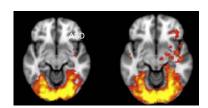
- · Detects danger
- Produces stress, fear, anxiety
- Related to eye contact and emotion recognition
- Key in behaviors, such as anxiety, meltdowns and aggression

#### Regulation/Change

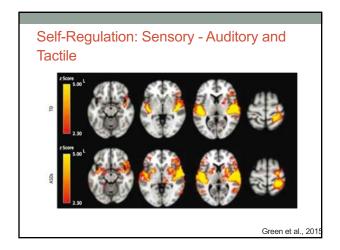
Individuals with ASD process small changes – such as a change in the schedule -- similar to the way another person would process a major change – such as being fired from a job (Gomot & Wicker, 2012).

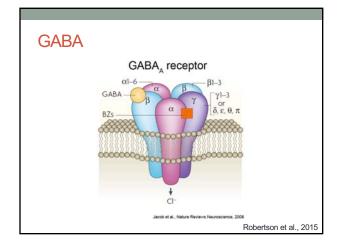


#### Self-Regulation: Sensory - Auditory



Green et al., 2013





PEOPLE WITH AUTISM ARE
INUNDATED WITH A DELUGE OF
SENSORY INFORMATION THAT CAN
TURN EVERYDAY ENVIRONMENTS
INTO DISTRESSING EXPERIENCES

Lurie, 2015

"If my child graduates from high school and he cannot read, it would be against the law to discriminate against him.

However, if he graduates and is not able to live or work next to other people without hurting or scaring them, society will not tolerate him.

As a result, he will most likely lose his freedom to move about his community independently, impacting his long-term quality of life."

- Quote from "a very wise parent" in Using the 5 Point Scale and Anxiety Curve Poster by K. Dunn Buron and M. Curtis (2008) AAPC

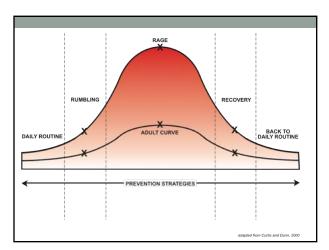
TRADITIONAL TEMPER
TANTRUMS" vs "MELTDOWNS

#### **Temper Tantrums**

- The child will look to see if behavior is getting a reaction
- The child can alter behavior to ensure that she does not get hurt
- The "temper tantrummer" will use a situation to his benefit
- The child has a goal and when the goal is met, the behavior returns to typical
- The child is in control

#### The Meltdown

- The child has no involvement in the social situation
- · The child is not concerned for his own safety
- The child does not look to or care if others react to his behavior during the meltdown
- Meltdowns appear to be under their own power and have a cycle
- Are not manipulation they are the only behavior the child has to react to the situation



#### Reactive Regulation Challenges

- Not planned in advance
- Occurs because the individual does not have the skills to problem solve, recognize feelings in self, match feelings, to event, and calm self



Farmer et al., 2014





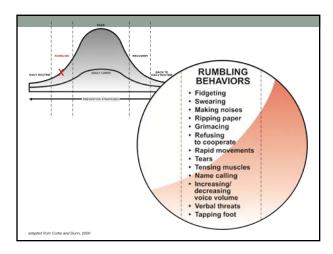
#### This is important!

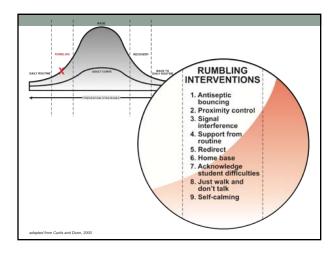
The minute the rage cycle hits, all opportunities for learning are gone (perhaps for the rest of the day)!

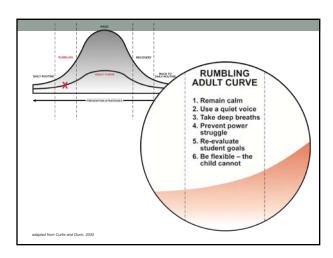


- · Most important stage
- · Building up to rage
- Some thinking ability still intact
- Individual children have their own patterns of "rage behavior"

Note: The role of verbalizations in escalation.

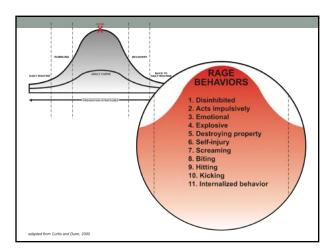


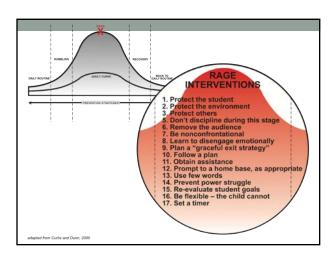


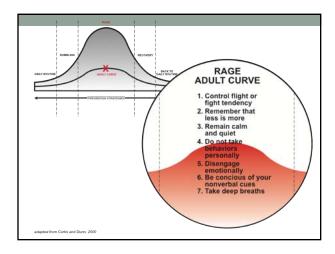


### 🏿 Rage Stage 🌂

- This is the lightening stage when the neurotransmitters are not working correctly.
- The child or youth may shout, swear, kick, or hit.
- He or she is clearly out of control.

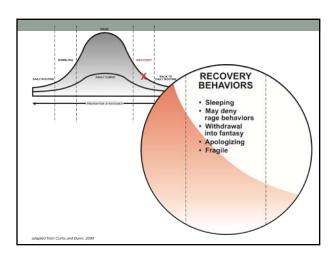


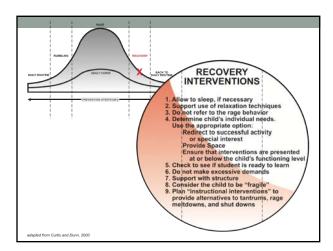


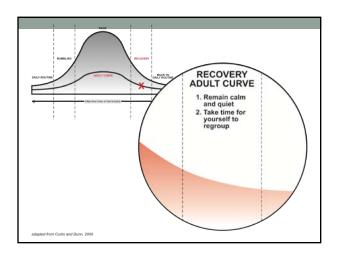


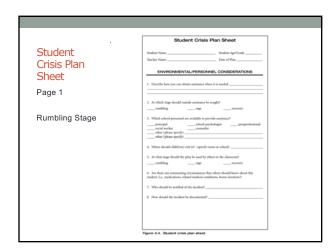
### Recovery Stage

- The child or youth may sleep for awhile.
- He/she may apologize or be contrite.
- Withdrawal may occur; a fantasy world may be the target.
- The student may deny meltdown.
- Some do not remember what happened during the Rage Stage.









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Page 2
Rumbling Stage  distributed describe;
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Student Crisis Plan Sheet	L. What held-nion does the readout exhibit during the rapp reage?  — under verball halons out of strake?  — on an exhibit halons out of a readout verball halons out of a readout verball halons out of a readout verball halons out of a readout during the strakes — other first readout verball halons out of plans of person halons — other first readout —
Page 3 Rage Stage Recovery Stage	Vision shall internetions should be and during the regul physical price add the regular should be seen to said some prices of the regular special be some to said some some offers from the shoursess where place quick)  the place quick)  I What is the risk of ethics in the shift's proteoment during the regular signif-
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# SELF-REGULATION STRATEGIES

HELP AUTISTIC INDIVIDUALS
TWO UNDERSTAND THEIR
REGULATION NEEDS

EVERYONE HAS REGULATION PROBLEMS TO SOME DEGREE!

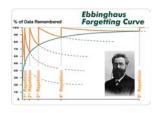
#### Self-Regulation Has MANY Sides

- Staying calm
- Controlling one's impulses and to stop doing something, if needed
- Doing something because it is needed even if you don't want to
- · Recognizing how your are feeling
- · Matching emotions to events



TEACH, TEACH, PRACTICE, PRACTICE, PRACTICE, RETEACH ...

#### The Forgetting Curve



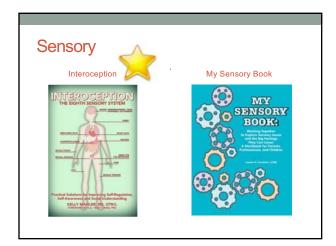
 People tend to forget onehalf of what they learned over days or weeks if it is not actively rehearsed.

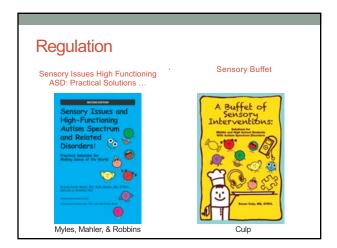
#### **Sensory Demands**

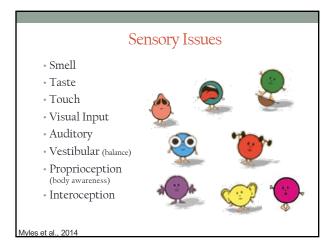
 Some experiences are experienced too intensely and others are not intense enough



Coulter Video







Interoception	and	Self-Regulation: A
Connection		

- Itch
- Temperature
- Sexual arousal
- Emotional awareness
- Empathy
- Theory of mind
- Intuition
- Pain
- Decision making
- Sensing risk

From the work of Kelly Mahler

- Understanding norm violations
- Maternal and romantic love
- Control of urges (i.e., smoking)
- Reading social gestures
- Hunger
- Motivation
- · Response to fight or

flight

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- · Reacts to minor and major events in a similar manner
- Does not report injuries or act hurt
- · Has difficulty with potty training
- Recognizes hunger only as feeling to sick to stomach
- · Startles easily
- · Limited repertoire of interests

#### School Age

- · May be under- or over-weight
- · May not match clothes to weather
- · Easily coerced into risky behavior
- ${\scriptstyle \bullet}$  Does not react when others are hurt
- · Experiences meltdowns
- Difficulty understanding the thoughts of others
- · Has few friends

#### Adult

- Delays going to the doctor
- · Has difficulty empathizing with partner
- · Makes hidden curriculum errors at work
- · Has difficulty making decisions regarding finances
- · Smokes and drinks
- · Has a "short fuse"
- · Makes some bad decisions

#### Strategies: Visual Supports





Go to the bathroom at: 9:00 11:00 1:00

#### Strategies: Social Narratives

Some people can tell when they are hurt by the feelings in their body. For others, this can be a challenging thing to do. While you are learning the feelings in your body, it is important to make sure that your body is okay. Everyday before you shower, you need to do a mirror check.

Look at your body to see if there are any
Cuts
Red spots
Bruises

- Swollen or raised areas
- · Anything with pus

If you see any of these, you need to immediately tell your mom or dad. This will help to keep you healthy.

Strateg	ies:	Body	Scan
Ou atog	.00.		Coan



#### **Teaching Interoception Awareness**

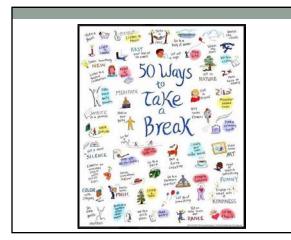
- · Supports emotional understanding in self
- Promotes emotional regulation skills
- · Promotes physical health
- · Helps determine if problem solving skills are needed
- · Supports empathy and perspective taking
- · Provides a firm foundation for learning new skills

#### PROACTIVE BREAKS TO SUPPORT REMAINING CALM

Myles, 2019

#### Remaining Calm

- · Know when breaks are needed
  - · To remain calm
  - · To regain composure
- · Ensure that they are
- Matched to the handbook
- · Cleared with the supervisor



#### **Coping Cards**

Take 2 deep breaths with your eyes closed

Press hands together and count to 10 slowly

Coffin, 2006

#### Incorporate Priming

- Preparing for daily activities accomplishes two very important things.
  - It helps to reduce anxiety by making the environment predictable.
  - It can reduce processing time, thereby allowing you to respond in a more timely manner.

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Stress Level	Regulation Plan	Personal Reminder
High: Claniching teeth, eyes watering, can- not understand meaning of written words	Take formal break time:  Class and look office door  Turn off inger and lights  Lis on jogs mat with Plod  Listen to 13-minute nature makes misses selections	The unexpected will fit me like a big lightnering both. Dix. Pause, take a deep breath inner burder, "You" filey "Let me think about this and get back with you."
Medium: Extransous drynning on computer keyboard, rub- ting eyes, lag time between meding and understanding	Increase regulation as- solution:  * Turn on white russe maker  * Switch to lamp lighting an opposed to over head fluorespect light  * Take a stront walk (i.e., use reproved, reposit outgoing mak, wheelin gove)	The unexpected off armoy real.  Standard profile, earlier poster, franchip body profile, franchip body profile, franchip body profile, franchip body profile, franchip body franchip bod
Low. Rubs stone of setting techniques to techniques, takes of glasses, moneratory lag time between understanding appoint words.	Employ a rigulation sist.  Disse office door  Dries gam.  Dries ceffee or other bevelage	Lam able to handle the unexpected pocked by the visual timer on my Phane to 30 eres to do show level check and proggs in name access to comment to show that you are leaving by saying "thore's "have "being by "brown". The "olding" some "these "olding on some other generic com- ment."
None	Enjoy my stress-free statust	Continue to foliow my CAPS test p. 550

Managing Stre	ss to Maintain	Engagement
Stress Level	Regulation Plan	Personal Reminder
High: Clenching teeth, eyes watering, cannot understand the meaning or written words	Take formal break time:  Close and lock the door  Turn off ringer and lights  Lie on yoga mat with iPod  Listen to 13-min nature music selections	The unexpected will hit me like a big lightening bolt. Do: Pause, take a deep breath. Inhibit blurting, "No!" Say: "Let me think about this and get back with you."

# Managing Stress to Maintain Engagement Stress Level Regulation Plan Medium: Extraneous drumming on computer keyboard, rubbing eyes, lag time between reading and understanding Increase regulation assistance: Turn on white noise maker Switch to lamp lighting as opposed to overhead as opposed to overhead florescent light Take a short walk (i.e., use restroom, deposit outgoing mail, refresh drink) Take a short walk (i.e., use restroom, deposit outgoing mail, refresh drink)

# Managing Stress to Maintain Engagement Low: Rubs fabric of clothing between fingers, takes off glasses, momentary lag time between understanding spoken words Employ a regulation aid - Close office door - Chew gum - Drink coffee or other beverage Drink coffee or other beverage - Chew and - Drink coffee or other beverage - Chew and - Drink coffee or other beverage - Chew and - Conversation style. Say: When in doubt, remember to comment to show that you are listening by saying, "Thanks," I see," or some other generic comment

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ivianaging	Stress to Maintai	n Engagement
Stress Level	Regulation Plan	Personal Reminder
None	Enjoy my stress-free status!	Continue to follow my CAPS

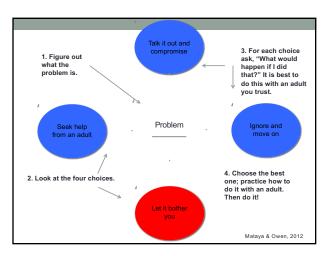
# LEARN TO SOLVE PROBLEMS

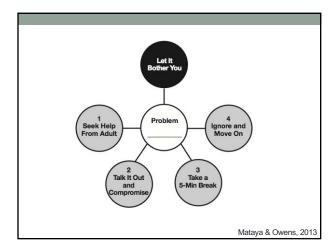
Efficiently and Calmly

# ALL PROBLEMS HAVE A SOLUTION --

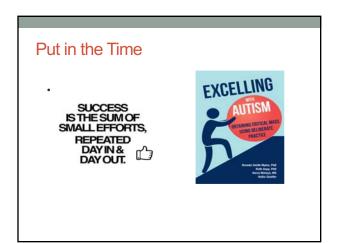
But you might not always get the solution you want.

This is called <u>life!</u>









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- · Regularly scheduled instruction and practice
- Intense, but not always rote (use levels of learning)
  - · Sessions may be short
  - · Increase time, as needed

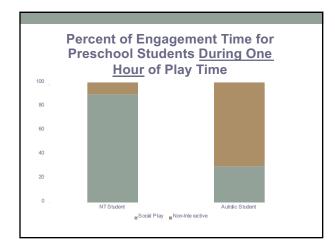


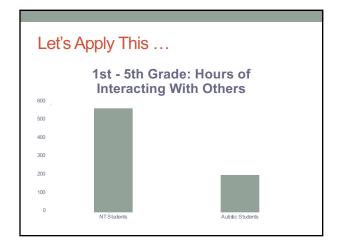


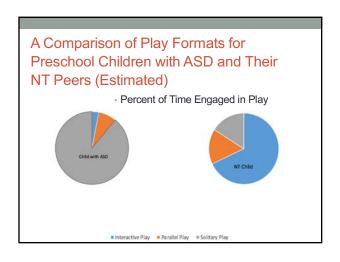


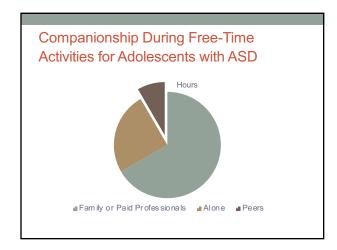
HAVE CHILDREN AND ADOLESCENTS WITH ASD HAD THE OPPORTUNITY TO PUT IN THE TIME?

**SOCIAL OUTCOMES** 

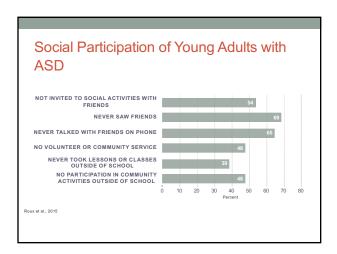




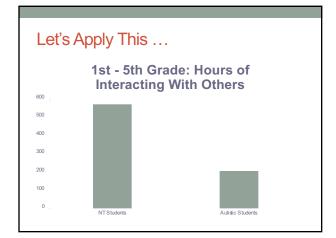




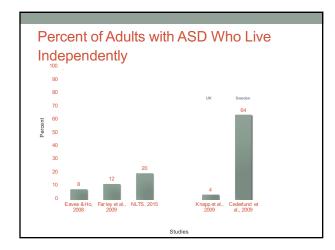
#### Percent of Adolescents with ASD Who **Engage in Free-Time Activities** · Watching television 86% · Visiting with friends/relatives 20% 53% Using computer Napping 15% · Having a conversation Physical activity 47% 15% 45% · Listen to music 44% - Shopping - Relaxing (unoccupied) 36% Reading 36%

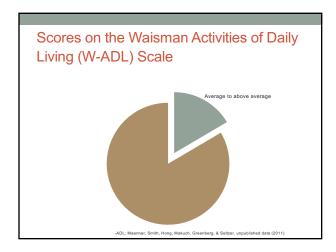


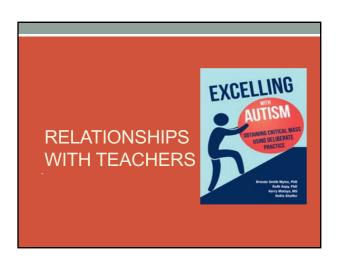




INDEPENDENT LIVING OUTCOMES







#### POSITIVE TEACHER-STUDENT RELATIONSHIPS

Have a long-term impact on learners' academic, behavior, mental health and social skills

# Teachers Behaviors Related to Student Academic and Social Gains Provides Justifies authority instruction Juses Student Ideas Provides Justifies authority instruction Accepts student feelings

#### Teachers Tend to Have ...

#### Positive Relationships With

#### Students from high income families

Students receiving <u>no</u> special services

#### **Conflictual Relationships With**

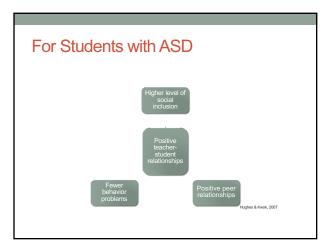
- Students who have special services
- Student with difficult temperaments

Students who are at risk for school problems	Students with behavior or learning problems		
student rel are critical,	Positive teacher- student relationships are critical, yet are not realized		
Students from underrepresented populations	Students from low- income schools		
	Robertson et al., 2003; Comelius-White, 2007		

#### Who Benefits More?

 Students from low income schools benefit more from positive teacher-student relationships more than their counterparts in average-to-high income students

Cornelius-White, 2007

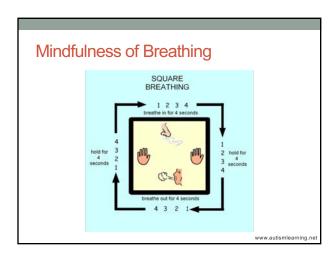


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Mindfulness	
<ul> <li>Mindfulness derives from Buddhist practice and is described in the psychological literature as an intentional and non-judgmental awareness of the present moment</li> </ul>	
and non-judgmental awareness of the present moment	
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC362930	
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#### Photo Album

- · Identify calming photos
- Place in album
- Review throughout the day with coaching about the calming effects of the photo album
- · Prompt to use when upset
- · Available to learner on an as-needed basis





Walking Mindfulness	Proce Service Peter American Service S
	CHARLES AND CHARLE

## Meditation on the Soles of the Feet for Anger Management

- Stand up and feel your feet, especially how they feel pressing against the floor
- · Now walk slowly.
  - As you walk simply notice how your feel feel.
  - $\boldsymbol{\cdot}$  When your mind wanders, just feel your feet again.
- Notice the changes in sensation as you lift your foot, step forward, and place your foot back down on the floor.
- · Practice until you feel more relaxed

http://centerformsc.org/sites/default/files/Soles%20of%20the%20Feet.pdf. Singh, Singh, Singh & Winton (2011) by

THE POTENTIAL OF INDIVIDUALS WITH AUTISM IS LIMITLESS!