What Happens Next?

The Transition to Adulthood for Individuals with Fetal Alcohol Spectrum Disorders and other Developmental Disabilities



Leila Glass, Ph.D.

Neuropsychology Postdoctoral Fellow
UCLA Semel Institute for Neuroscience and Human Behavior

What is transition and why is it important?

Various aspects of transition

- Change in environment
- Pediatric to adult health care
- Independent/supported living skills
- School, home, community changes

When does transition occur?

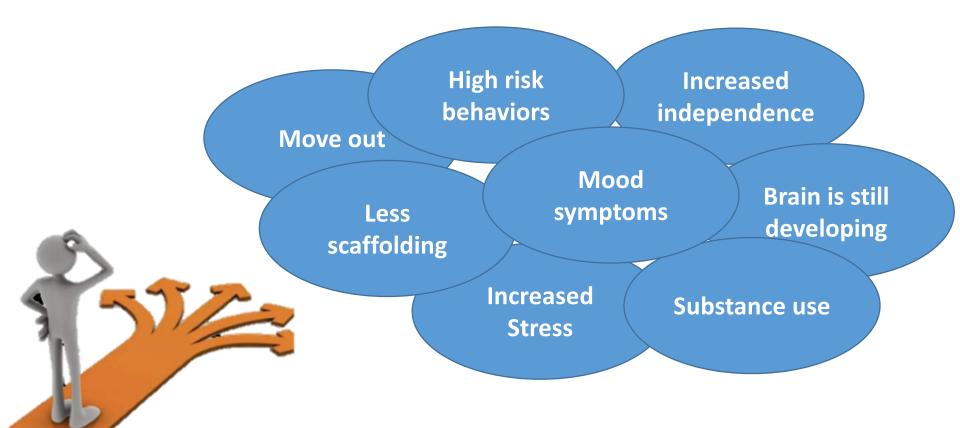
• Typically age 16-22

Why is this important?

- Many adjustments
- Services cliff
- Many changes at once

Transition to adulthood can be hard

FOR EVERYONE!



Here's the Plan

- Review <u>developmental trajectory</u>
- Holistic conceptualization
- Discuss how symptoms manifest in the real world
- Intervention and considerations for transition

Lens of Fetal Alcohol Spectrum Disorders

Fetal Alcohol Spectrum Disorders

Alcohol causes more damage to the developing baby's brain than any other substance, including marijuana, cocaine, methamphetamine, and heroin

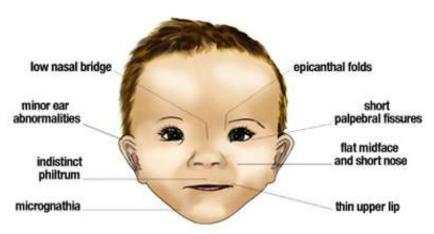
- Institute of Medicine Report to Congress, 1996

Estimated 2-5% of all school children have FASD

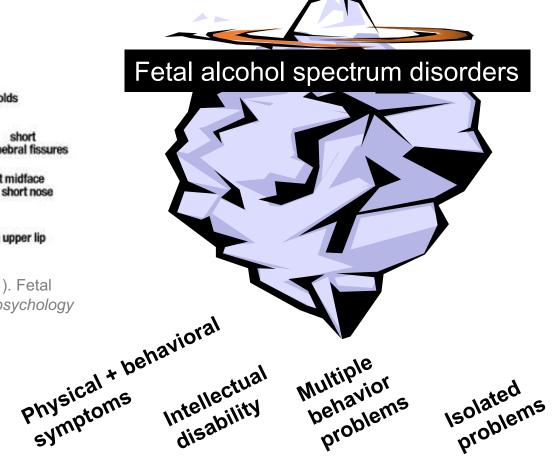


FAS is only the tip of the iceberg

FETAL ALCOHOL SYNDROME



Riley, E. P., Infante, M. A., & Warren, K. R. (2011). Fetal alcohol spectrum disorders: an overview. Neuropsychology review, 21(2), 73.



Death

Significant Deficits

Effects of Prenatal Alcohol Exposure

- FASD are associated with permanent, life-long, and clinically significant negative outcomes
 - Neurological Issues
 - Medical Issues
 - Cognitive Deficits
 - Academic Difficulties
 - Behavioral Problems
 - Psychological Comorbidities
 - Adaptive Function Deficits
 - Involvement with the Justice System
 - Long Term Care Needs



Core Symptoms of ND-PAE

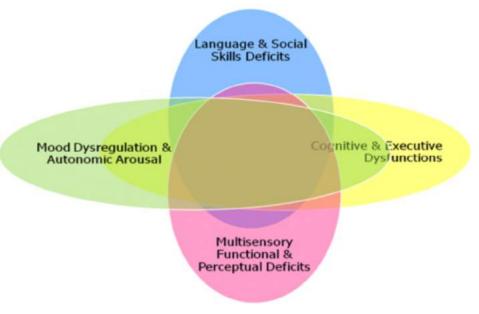
- More than Minimal Prenatal Alcohol Exposure
- Neurocognitive Impairment (one or more):
 - Impairment in Global Intellectual Functioning
 - 2. Impairment in Executive Functioning
 - 3. Impairment in Learning
 - 4. Impairment in Memory
 - 5. Impairment in Visual-Spatial Reasoning

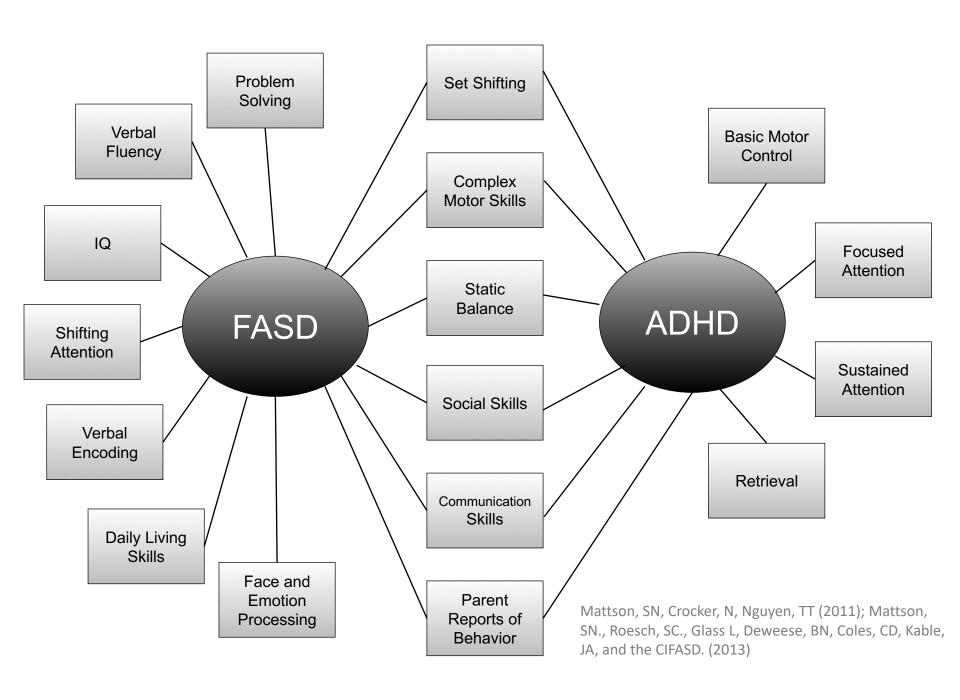
- Self-Regulation Impairment (one or more):
 - Impairment in Mood or Behavioral Regulation
 - 2. Impaired Attention
 - 3. Impairment in Impulse Control
- Adaptive Functioning Impairment (two or more):
 - 1. Impairment in Communication
 - 2. Impairment in Social Interactions and Communication
 - 3. Impairment in Daily Living Skills
 - 4. Impairment in Motor Skills
- Onset of Symptoms in Childhood

Overlapping Behavioral Characteristics & Related Mental Health Diagnoses in Children

| Overlapping Characteristics & Mental Health Diagnoses | FASD | ADD/ ADHD | Sensory Int. Dys. | Autism | Bi- Polar | RAD | Depres- sion | ODD | Trauma | Poverty |
|---|---------|--------------|----------------------|---------|--------------|------|-----------------|------|---------|---------|
| | Organic | Organic | Organic | Organic | Mood | Mood | Mood | Mood | Environ | Environ |
| Easily distracted by extraneous stimuli | X | X | | | | | | | | |
| Developmental Dysmaturity | X | | | Х | | | | | | |
| Feel Different from other people | X | | | | X | | | | | |
| Often does not follow through on instructions | Х | Х | | | | | X | X | Х | X |
| Often interrupts/intrudes | X | X | X | Х | X | | X | | | X |
| Often engages in activities without considering possible consequences | X | Х | X | Х | X | | | | | X |
| Often has difficulty organizing tasks & activities | Х | Х | | Х | X | | X | | | X |
| Difficulty with transitions | X | | X | Х | X | | | | | |





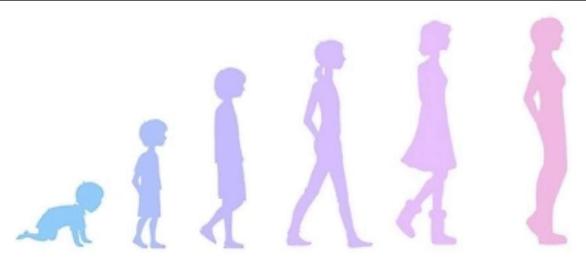


Here's the Plan

- Review developmental trajectory
- Holistic conceptualization
- Discuss how symptoms manifest in the real world
- Intervention and considerations for transition

Fetal Alcohol Spectrum Disorders

| Skill/Characteristic | Developmental Age Equivalent |
|---|------------------------------|
| Chronological Age ——————— | 1 8 |
| Physical Maturity—————— | 1 8 |
| Developmental Level of Functioning———9 | |
| Daily Living Skills———11 | |
| Expressive Language————— | 1 8 |
| Receptive Language——7 | |
| Artistic Ability (or other strength) | 2 3 |
| Reading: Decoding———————————————————————————————————— | 16 |
| Reading Comprehension——6 | |
| Money and Time Concepts———8 | |



Brain-Behavior Relationship

Neuroanatomical and Functional Changes

- Global brain
- Cerebral cortex
- Corpus callosum
- Cerebellum
- Hippocampus
- Basal ganglia
- White / gray matter
- Functional

Cognition & Behavior

- Intelligence
- Executive dysfunction
- Learning & memory problems
- Poor spatial abilities
- Poor language development
- Reduced motor function
- Attention deficits & hyperactivity
- Poor emotional regulation
- Social difficulties

Profile of FASD

| PERCENTILE RANK | COGNITIVE | ADAPTIVE | LANGUAGE | MOTOR | MEMORY | EXECUTIVE FUNCTION | PERCENTILE |
|--------------------|-----------|----------|----------|-------|--------|--------------------|--------------------|
| 100 | | | | | | | 100 |
| 95 | | | | | | | 95 |
| 90 | | | | | | | 90 |
| 85 | | | | | | | 85 |
| 80 | | | | | | | 80 |
| 75 | | | | | | | 75 |
| 70 | | | | | | | 70 |
| 65 | | | | | | | 65 |
| 60 | | | | | | | 60 |
| 55 | | | | | | | 55 |
| 50 | X | | | | | | 50 |
| 45 | | | | X | | | 45 |
| 40 | | | | | | | 40 |
| 35 | | | | | | | 35 |
| 30 | | | X | | | | 30 |
| 25 | | | | | | | 25 |
| 20 | | | | | X | | 20 |
| 15 | | | | | | | 15 |
| 10 | | | | | | X | 10 |
| 5 | | X | | | | | 5 |
| PERCENTILE RANK | COGNITIVE | ADAPTIVE | LANGUAGE | MOTOR | MEMORY | EXECUTIVE FUNCTION | PERCENTILE RANK |

With development....



Symptoms change
Behaviors change
Needs change
What works changes
What is appropriate changes
What is acceptable changes
What is expected changes

Developmental Trajectory: FASD

| 0-2 years | 3-8 years | 8-16 years | 16+ years |
|--------------------------|----------------|------------|-----------------------|
| Facial featu | res | | · diminished |
| <3 rd %ile he | ight, weight | | generally caught up |
| Behavioral p | roblems | | generally persisted |
| Cognitive di | fficulties | | - generally persisted |
| Social diffic | ulties | g | enerally persisted |
| Mood conce | erns | | worsened |
| Substance u | ıse | | · worsened |
| Justice syst | em involvement | | worsened |

Developmental Trajectory: Williams Syndrome

From early 12-24 m. 7-10/12y 3-6y adolescence on Mild to Mild to moderate Wide variability in Divergent cognitive moderate delays in all areas of cognitive trajectories: development: delays in all development - relative stable IQ -Gross/fine motor areas of trajectory Mean FSIQ around "growing into deficit" development: -General cognition (Developmental delay, -Gross/ fine 70; In a subgroup, cognitive decline poor pre-arithmetic VIQ > PIQ but also motor skills and visual--General VIQ-PIQ or cognition perceptual skills) VIQ < PIQ verbal decline >> -Speech/ -Speech/ ~psychosis Divergent cognitive language language trajectories

ADHD Symptom Manifestation by Age

| CHILDHOOD | ADOLESCENCE | ADULTHOOD |
|--------------------------------|--|-----------------------------------|
| Hyperactivity | Easily distracted, inattentive | Inattentiveness |
| Low frustration tolerance | Easily bored | Poor organization of time/money |
| Aggression | Impatient | Missing deadlines or appointments |
| Easily distracted | Emotionally immature compared to peers | Poor bill tracking |
| Difficulty developing routines | Shifts activities | Restlessness |
| Impulsiveness | Poor driving | Emotional reactivity |

Can we predict the future?

For children diagnosed with ASD at age 2, when assessed at 19

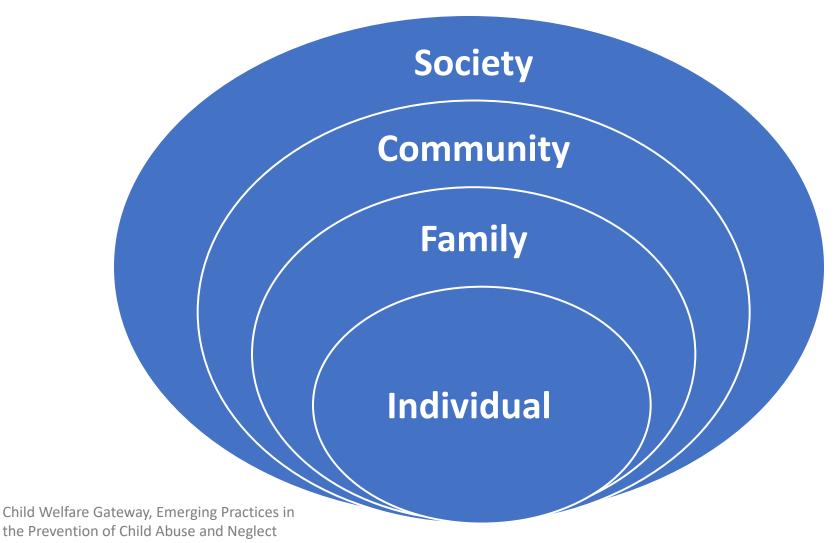
- Poorer outcome was accurately predicted about 85% of the time from **IQ scores alone**.
- Almost 10% no longer had a clinical diagnosis
- 25% had symptoms of ASD, though were not impaired



Here's the Plan

- Review <u>developmental trajectory</u>
- Holistic conceptualization
- Discuss how symptoms manifest in the real world
- Intervention and considerations for transition

Overall Framework



the Prevention of Child Abuse and Neglect (2003) DHHS. CDC (2015),

Two young adults are facing this transitional time with very different concerns...

Jack

- Diagnosed with ASD at age 3
- Significant intervention
- Has an IEP, though generally did well in school
- Received HS Diploma
- Difficulty making friends
- Finished college through a specialized program
- Now spends his time at home playing videogames
- Very socially isolated

Jill

- Diagnosed with an FASD at age 7
- Several foster-care placements
- Has an IEP in special ed. classes
- Difficulty making friends
- History of being taken advantage
- Lives with her adoptive parents
- Works in supported employment
- Safety concerns related to relationships
- Significant mood issues

Framework: Individual

RISK RESILIENCE

Lower cognitive ability Increased behavioral issues Lower adaptive functioning Reduced access to services Comorbid psychopathology Physical and medical concerns Developmental disabilities History of abuse, trauma Mismatch of temperament Lower social skills Interactions with juvenile justice

Good health Intact intellectual functioning Access and engagement in intervention Internal locus of control Interests and hobbies **Emotional regulation** Easy temperament Coping strategies Individual Positive self-esteem Social skills

Framework: Family

RESILIENCE RISK

Family

Lack of trust Lack of stability Attachment issues Mood / psychopathology History of trauma / abuse Lack of support High stress level Intellectual functioning Level of psychoeducation Parent-child interaction Substance use, Partners

Positive parent child relationship Supportive, stable family structure Parental monitoring of child Knowledge and understanding Expectations of behavior Parental education Modeling of coping skills **Individual** Access to services Early intervention Higher socioeconomic status

Higher education attainment

Framework: Community

RISK RESILIENCE

Individual

Safety Access to drugs and alcohol Homelessness Lack of awareness Lack of screening Reduced social support Instability No school accommodations Community violence Poor educational environment Lack of behavioral intervention

Community Family

Access to services Early identification Informed providers Support groups **Educational systems** Vocational systems Increased community understanding Higher socioeconomic status Access to targeted care Transitional plans

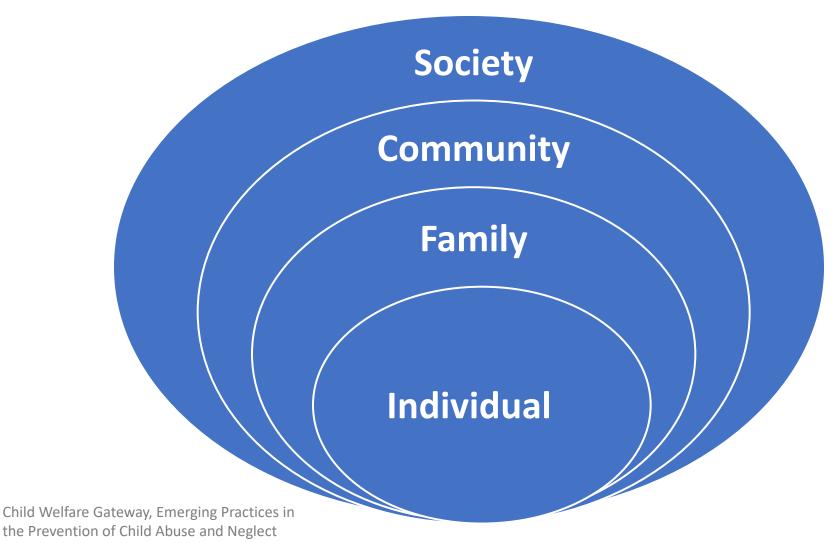
Framework: Society

RESILIENCE RISK Society **Increased** education Services cliff **Community** Awareness Socioeconomic status Increased screening Exposure to discrimination **Family** Preventative care Lack of services Access to health care Exposure to additional toxins Adequate housing Exposure to unsafe environments Access to services Lack of effective educational environments Child New policies to provide support Lack of appropriate preventative and Increased social programming ongoing care

Increased research and funding for

prevention and intervention

Overall Framework



the Prevention of Child Abuse and Neglect (2003) DHHS. CDC (2015),

Two young adults are facing this transitional time with very different concerns...

Jack

- Diagnosed with ASD at age 3
- Significant intervention
- Has an IEP, though generally did well in school
- Received HS Diploma
- Difficulty making friends
- Finished college through a specialized program
- Now spends his time at home playing videogames
- Very socially isolated

Jill

- Diagnosed with an FASD at age 7
- Several foster-care placements
- Has an IEP in special ed. classes
- Difficulty making friends
- History of being taken advantage
- Lives with her adoptive parents
- Works in supported employment
- Safety concerns related to relationships
- Significant mood issues

Here's the Plan

- Review <u>developmental trajectory</u>
- Holistic conceptualization
- Discuss how symptoms manifest in the real world
- Intervention and considerations for transition





PRIMARY DISABILITIES

Typical brain-based, primary disabilities of FASD include:



Inconsistent MEMORY and RECALL



Decreased MENTAL STAMINA



Difficulty interpreting, and applying ABSTRACT CONCEPTS



IMPULSIVITY and poor JUDGMENT



RESISTANT to change



Inability to PREDICT OUTCOMES



Inability to see ANOTHER PERSON'S perspective



Inability to recognize indirect SOCIAL CLUES

SECONDARY DISABILITIES

Secondary disabilities are those not present at birth, but occur later in life as a result of the primary disabilities associated with FASD. They include:

MENTAL HEALTH problems



Poor ACADEMIC achievement



Inability to live INDEPENDENTLY



ALCOHOL and/or **DRUG** problems



Problems with EMPLOYMENT



INCARCERATION or CONFINEMENT



Trouble with the LAW



Disrupted SCHOOL experience

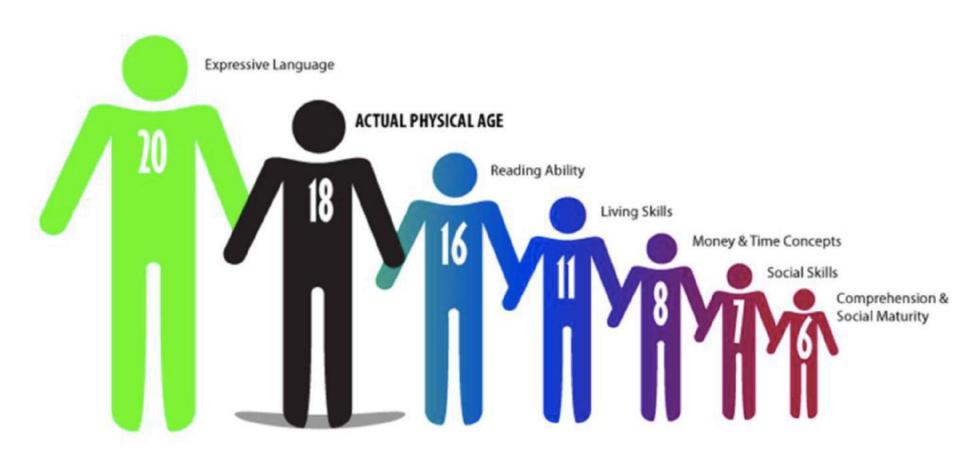


Source: CAMH

Secondary Disabilities

- 94% Mental health issues
- 80% Trouble with independent living
- 80% Trouble with employment
- 70% Trouble in school
- 60% Trouble with the law
- 60% Confinement in prison or institution
- 50% Adults abuse alcohol/drugs
- 45% Legal problems with sexual behaviors

What you see is NOT what you get...



Moment to Moment: Growing up with FASD





From Young Adults

"I lived with my family for a while. Then I lived with some friends but I got in trouble. I went to jail for a bit. . . . Then I lived in assisted housing. That is when caregivers help out adults in their homes. Sometimes I need that extra help. I like living on my own because I can do what I want, but if I need help, it is there. I can have my own life. That is very important to me. I like to decide where I am going and what I will be doing, but sometimes my schedule can get mixed up and I might not eat or sleep. I also have a hard time doing my laundry and I have lots of problems managing my money. These are things I deal with daily."

– Joanne, age 25

From Young Adults

"I did ok in high school and I was excited to go to college. I really thought I could do it. The first few weeks were fine. But then I got in trouble with some people on my hall. I got upset and we got in a fight. I didn't know what to do, so I just stayed in my room and played videogames. There was too much stuff going on and I got really depressed. Eventually, I failed all my classes and ended up in a hospital. I don't know think I want to go back."

Robert, age 18



From Parents

"There's no saying you're 18 now they can go, or they can be home and you don't have to worry about them. You always have to worry about them and it's hard because you never know what they're going to do. They could end up with a gang, they could get hurt easily drinking and being in a crowd. They're so easily led astray...Yeah, it's a lifetime of worrying about them"

Mother of a 21 year old with FASD

Domeij, Helena, et al. "Experiences of living with fetal alcohol spectrum disorders: a systematic review and synthesis of qualitative data." *Developmental Medicine* & *Child Neurology*(2018).

Here's the Plan

- Review <u>developmental trajectory</u>
- Holistic conceptualization
- Discuss how symptoms manifest in the real world
- Intervention and considerations for transition

Federally mandated transition plan

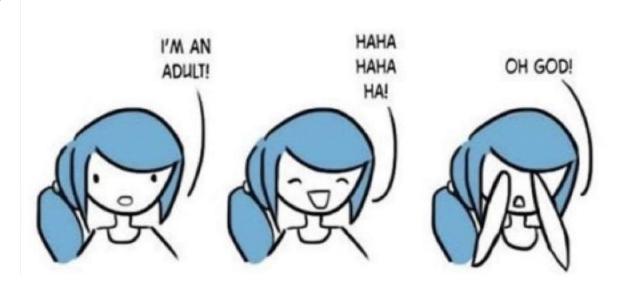
For those with an IEP, transition planning should:

- Start before age 16
- Be based on their strengths, preferences, interests
- Include opportunities to develop functional skills



Transition to Adulthood

- Continuing Education
- Work + Money Management
- Independent + Supported Living
- Health + Safety
- Mood
- Relationships



Continuing Education

- Consider the educational environment
 - Are there special services in place?
 - Is a junior or community college more appropriate?
 - What other factors may influence success?
- Ensure that the IEP follows the young adult to any post high school education

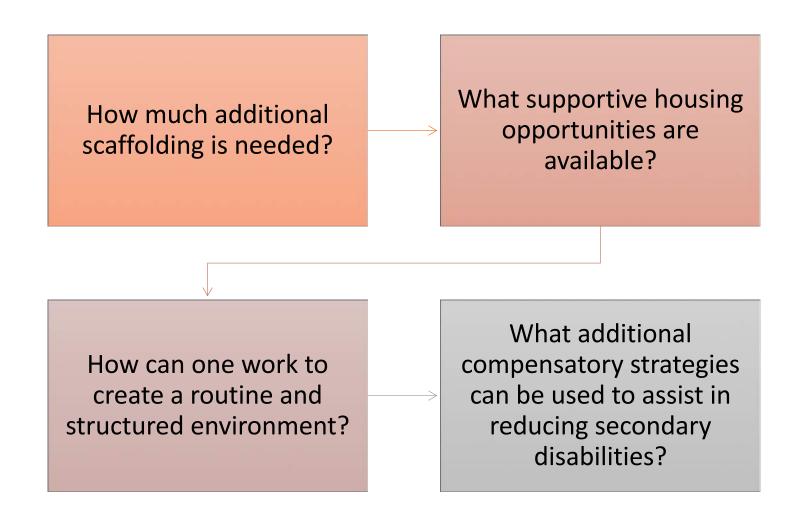


Work + Money

- Is there a need for supported employment?
- Are there specific strengths or interests that can be involved in planning?
- Is there oversight for financial management?
- Find positive, supportive environments
- Consider SSI

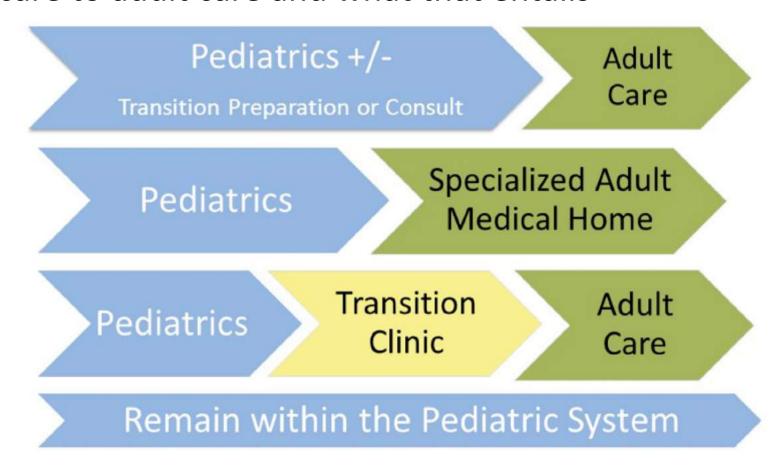


Independent + Supported Living



Health

 Prior to 18, consider the transition from pediatric care to adult care and what that entails



Safety + Legal Issues

- Assess needs and concerns
- Consider formal safeguards
 - Conservatorship, money management
- Consider additional training and support
- As well as support within the legal system
- Young adults are also often taken advantage of

Mood

- Increased risk for mood symptoms including suicidal ideation.
- Continued care with a psychologist/psychiatrist familiar with your young adult's level of functioning.
- Consider mood and psychological well being in other decisions regarding independence.



Relationships

- Review Social Skills PEERS for young adults!
- High risk for social isolations
- Review positive, meaningful friendships
- Be proactive in planning social interactions
- Consider safety in romantic relationships
 - Sexual education
 - Birth control
 - Dating



Essential Life Skills for All Teens

Transportation Community Access

Learn About Talents

Self-Interests,

Skills, Personality

ADVOCATE

FOR YOURSELF!

Investigate

Research/

Options

Explore Career &

Education/Training

Reflect on

Insights

Gained

Develop Your

Personal

Career Plan

Use Public Transportation

Know Schedules Know Routes, Pick-up Points Know Options (Bus, Taxi, On-demand)

Independent Living Skills

At Home Skills

Locate Housing options Arrange Rent, Utilities, Phone Basic Routine Maintenance Clean, Vacuum, Dust Find a Circuit Breaker/use it Locate, use Water Furnace Shut-off Fix Basic Plumbing

Food Skills

Plan, shop for Healthy Diet Prepare, Store Food Cook Balanced Meal Use Kitchen Appliances

Basic Clothing Repair (buttons, hems) Iron Garments Fold, put away Clothes Laundry - Follow care labels, treat stains

Personal Appearance Skills

Maintain Personal Appearance

Health and Wellness

Basic First Aid Maintain Healthy Diet Use Medication Safely Routine Exercise Make Healthy Lifestyle Choices Maintain Hygiene/Grooming Be aware of Personal Safety

Drive/Maintain Car & Driver's License

Buy Car, Buy Insurance Registration

Pump gas

Find the Job

that is Right

for YOU!

Learn Skills 4

Test the Waters:

Gain Experience

Believe in Yourself

Prepare:

Maintain Vehicle Oil, Fluids Maintain, Change Tires, Follow Traffic Laws/Safety

Know Options Read a Map/ Use GPS Know Landmarks Community Orientation

Community Access

Social / Recreation

Communication Skills (Listen, Speak, Customer Service)

Interpersonal Skills (Leadership, Social Skills, Teamwork)

Thinking Skills (Analyze, Prioritize, Visualize, Problem Solve)

Explore Social/Recreational Opportunities Pursue Hobbies, Recreational Interests Develop, Maintain Healthy Friendships Develop, Maintain Healthy Family Relationships

Postsecondary Options

Explore Options - Job Center, Web Postings Explore Postsecondary Education Options Apply Decision-Making Skills Use Labor Market Info. to guide choices Develop Resume Submit Applications/Resume on-line Interview skills

Financial Literacy

Understand Gross/Net pay, Deductions Make a Budget -- stick to it Use a Bank and/or ATM/ On-Line Banking Open, Use, Balance Checking Account Apply for Credit Card, use wisely Benefits Planning Saving Account, Keep track of documents file taxes

Citizenship

Register to Vote, Vote Comply with Laws, Regulations Be Environmentally Responsible Participate in Community Activities Volunteer

Self Determination & Self Management

Know Yourself -- Your Strengths, Limitations

Manage Your Time

Set Priorities

Monitor Your Performance

Balance Your Responsibilities and Priorities.

Adapt and Accept Change

Advocate for Yourself to Meet Your Needs Learn from Mistakes

Use of Technology

Manage Resources, Time

Employability Skills

Personal Qualities / Work Ethic

Understand Value of Lifelong Learning

Application of Core Academic Skills

Be Adaptable

Use Technology at Work, Home, Socially

Use Social Media Responsibly

Know Cyber Presence

Cell Phone Message & Ringtone should Leave a Good Impression Validate Sources of Information

Maintain Safe Identity

Maintain Current Knowledge of Technology/Applications

Be A Lifelong Learner: Be curious & interested to learn new things or apply old info in new ways

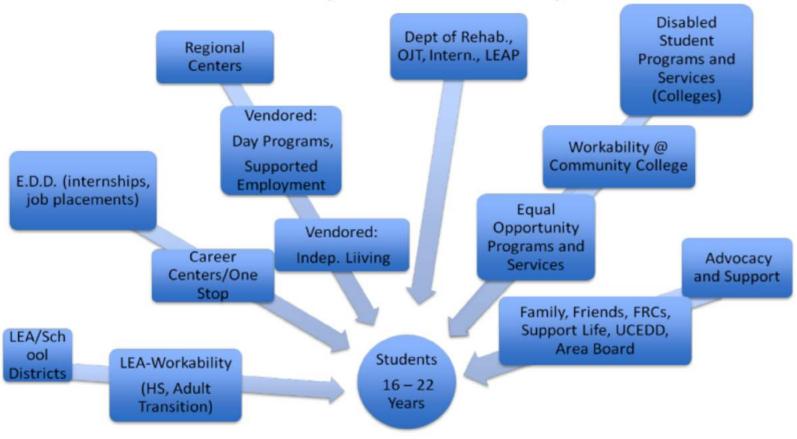
Seek Opportunities to Learn - in Classroom, with Computers, with Books, with People Learn From and With Others -- Share what you Learn - Recognize You are Not "The Expert" Take in Information - Analyze it, join it with other Information, then apply it

D Shasta Twenty-first Century Career Connections



Compiled by Sue Sawyer, California Transition Alliance 2015

Supports and Services for Transition-Age Youth (16 – 22 Years)



CENTER FOR EXCELLENCE IN

Developmental Disabilities



Knowledge and Training

50% of pediatricians felt prepared to diagnose and 34% felt prepared to manage and coordinate the treatment of children with FASD, 77% cited lack of training

| Family Physicians | Pediatricians | Developmental Pediatricians |
|-------------------|---------------|-----------------------------|
|-------------------|---------------|-----------------------------|

Geneticists Dysmorphologists Psychiatrists

Psychologists Neuropsychologists Public Health Nurses

Community Nurses Occupational Therapists Physical Therapists

Special Education Family Advocates SLPs

Social Services Youth Justice Probation Officers

Family Therapists FASD Courts Surgeons

Employment Counselors Guidance Counselors Teachers

Caregivers/Family Community Leaders Community services

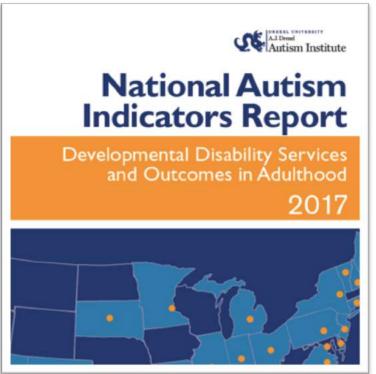
Nurse Practitioners Parents OB/GYN

Gahagan et al., (2006), Masotti et al (2015)

Resources + Future Directions

We need additional research on this important transition from youth to young adulthood





Additional Resources

youth Secause the Future Needs Everyone transitions center



For people with intellectual and developmental disabilities







Transitioning to Adulthood: Unique Health Care Challenges for Youth with Intellectual/Developmental Disabilities



OCALI Centers

Informing public policy and developing and deploying best practices - linking research to real life - so that people with disabilities have the opportunity to live their best lives for their whole lives.

Thank you!

Center for Behavioral Teratology

Resources and Information













Questions?

