

# PR%F Alliance

The Basics of Fetal Alcohol Spectrum Disorders (FASD)



# PR%F Alliance

Our <u>mission</u> is to prevent fetal alcohol spectrum disorders and support all impacted in Minnesota and beyond

Our <u>vision</u> is a world in which alcohol is not consumed during pregnancy and people living with fetal alcohol spectrum disorders are identified, supported and valued

### \* Acknowledgement \*

Proof Alliance acknowledges that not every person who can become pregnant identifies as a woman. We try to use gender-neutral language as often as possible, much of the current research available currently refers only to "women" when discussing the ability to become pregnant. When citing this research, we refer to the language used in the study. In these cases, "woman" refers to someone who was assigned female at birth.





#### 1973

The effects of prenatal alcohol exposure were first recognized in research journals in the early 70s. The effects were referred to as 'fetal alcohol syndrome'



1996

In 1996, the Institute of Medicine split this medical condition into five different diagnoses.



2000+

The effects of prenatal alcohol exposure are now referred to as a whole spectrum. FASD includes all five diagnoses first identified in 1996.

#### What is FASD?

#### **Fetal Alcohol Spectrum Disorder**

- A group of birth defects that is the result of prenatal alcohol exposure
- Wide range of symptoms including physical, mental, behavioral, & learning disabilities
- Prenatal alcohol exposure affects each person differently & organic brain injury causes inconsistency
- Permanent disability, lasts a lifetime
- All people with FASD can be successful





True or false?

FASD is more common than Down syndrome.



True or false?

FASD is more common than autism.



True or false?

FASD is the leading cause of intellectual disabilities in the U.S.

#### Prevalence Study



Research shows as many as 1 in 20 children in the U.S. have an FASD.

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#### Effects of Alcohol during Pregnancy

Pregnant person drinks alcohol



 Alcohol enters the placenta & passes from maternal blood supply to fetal blood supply



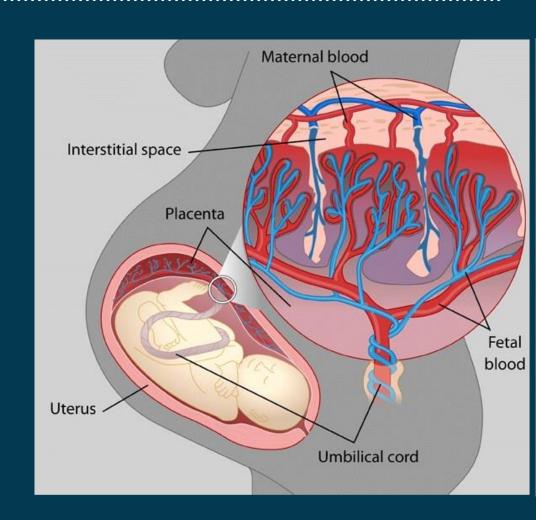
 Fetus urinates alcohol into the amniotic fluid



 Fetus then swallows amniotic fluid



 Alcohol is perpetually reabsorbed by the fetus



### Fetus Developmental Timeline

Period of development when major functional defects and minor structural defects can occur.

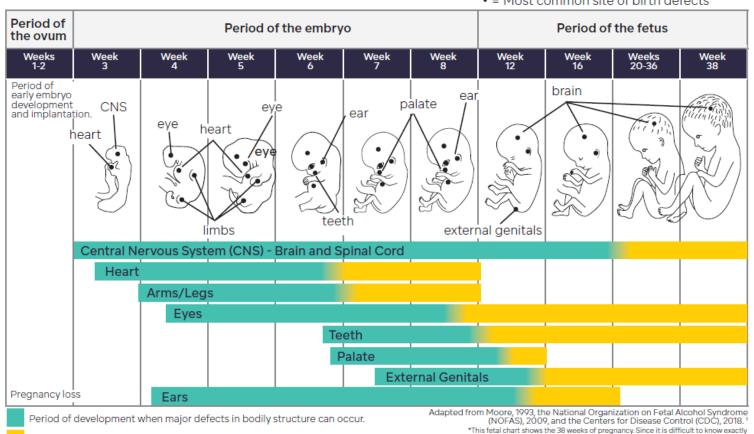
#### **Fetal Development Chart**

This chart shows vulnerability of the fetus to defects throughout 38 weeks of pregnancy.\*

• = Most common site of birth defects

when conception occurs, health care providers calculate a woman's due date 40

weeks from the start of their last menstural cycle.

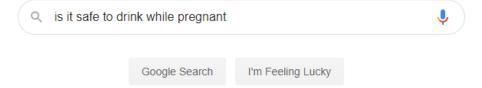




#### FASD is a Complex Public Health Issue

- Unplanned pregnancy may lead to drinking without the knowledge they are pregnant
- Substance use disorders
- Form of self-medicating or coping mechanism due to external stressors or mental illness
- Binge drinking is generally socially-accepted
- Mixed messages from family, friends, media, etc.
- Doctors implicitly give permission by not discussing alcohol use with their patients or downplaying the risks
- Public still misunderstands risks from drinking and does not recognize the high prevalence of FASD

# Google



# Where are you getting your medical advice from?

Abstaining completely from alcohol during pregnancy - from conception through birth - is recommended by all major medical groups, including:

- Centers for Disease Control and Prevention (CDC)
- U.S. Surgeon General
- American Academy of Pediatrics
- American College of Obstetricians and Gynecologists (ACOG)
- National Institutes of Health
- World Health Organization



#### What role does dad play?

- There is not enough research yet to decide if the father's alcohol use can also be unsafe.
- Even so, alcohol consumed by the males can lead to a variety of problems in the reproductive system.
- There are many health benefits linked with drinking less alcohol.
   Also, this is a way to be supportive of their partner choosing an alcohol-free pregnancy.

#### **Nursing and FASD**

# Can drinking while nursing cause an FASD?

- Alcohol in breast milk cannot cause an FASD
- Alcohol in breast milk can impact a baby's sleep patterns, growth and development
- The safest choice is to continue not drinking alcohol if breastfeeding
- For more info, talk with your healthcare provider. You can also visit aap.org or mothertobaby.org



## True or False?

Most people with an FASD have distinct facial impairments caused by prenatal alcohol exposure.









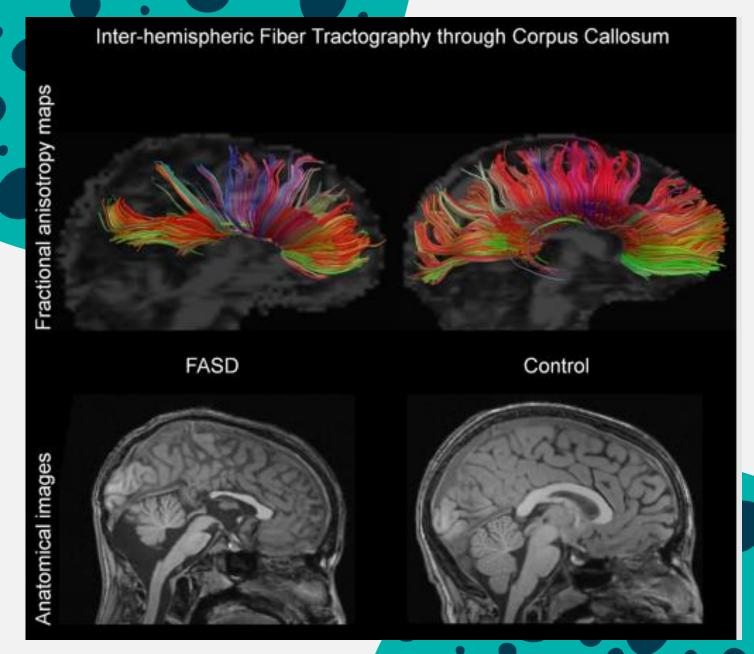


Photo courtesy of Dr. Jeffery Wozniak, University of Minnesota, 2019

#### Common Behavioral Symptoms

#### **Impaired Executive Functioning:**

- Organizing stored information
- Planning future events
- Problem solving
- Memory and attention
- Impulse control
- Cause and effect
- Generalizing concepts
- Abstract concepts

#### Common Behavioral Symptoms

It's important to remember that FASD is a spectrum disorder. This is only a small sampling of the characteristics that are common with FASD.

- Poor social skills/lack of boundaries
- Slower information processing
- Learning difficulties (commonly but not limited to math)
- Anger or frustration often & may take longer to self regulate
- Extreme under or over-sensitivity to sensory input
- Difficulty following directions or connecting steps
- May be prone to confabulation

#### Developmental Skills: Case Example

Comprehension — 6 years Emotional maturity — 6 years Social Skills 7 years Reading level 16 years Expressive language 20 years



#### Fingledobe & Pribin

Last serny, Fingledobe & Pribin were in the nerd-link treppering gloopy caples & cleaming burly greps.

Suddently a ditty strezzle boofed into Fingledobe's tresk.

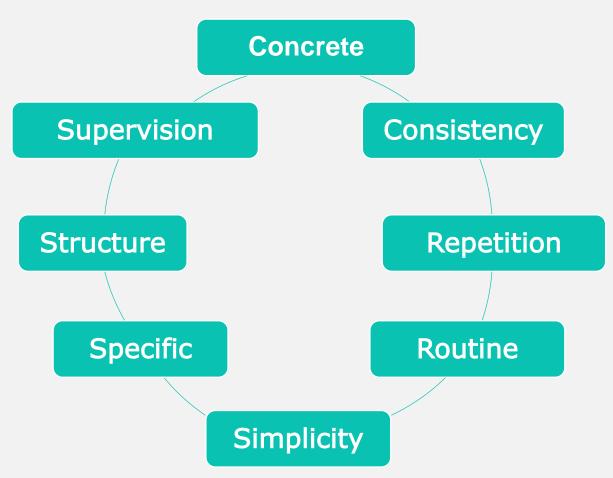
Pribin glaped & glaped. "Oh Fingledobe!" He Chifed, "That ditty strezzle is tunning in your grep!"

## Recognize Strengths



- Friendly, likable: May be outgoing & sociable & have little anxiety about strangers
- Verbal, chatty: May be very socially interested (but not necessarily socially skilled)
- Helpful, hard-working: If you ask, they will do it. They can be very good workers with the right job & training
- Determined, resilient: They don't hold grudges & will come back if rejected. Every day is a new day!
- Want to be liked: They will do whatever they can to have friends

#### The Eight Essentials for Success



From 8 Magic Keys - developed by Deb Evensen & Jan Lutke 1997

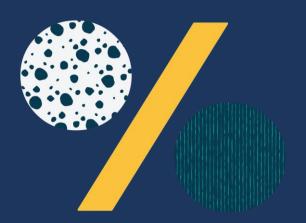
#### In Conclusion...

- FASD is 100%
   preventable and we can make a difference in our communities
- People with an FASD can be successful
- There is no safe type, amount or time to consume alcohol while pregnant



#### **Proof Alliance Resources**

- Public awareness & prevention
- Community grants & partners
- Family engagement & support
- Diagnostic clinic & screening
- Youth & young adult program
- Public policy work
- Professional education
- Proof Alliance website resources





# PR%F Alliance

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