FASD FACTS:

How You Can Help Prevent Fetal Alcohol Spectrum Disorders



FETAL ALCOHOL SPECTRUM DISORDERS

The Basics





Fetal Alcohol Spectrum Disorders (FASD)

- Umbrella term describing the range of effects that can occur in an individual whose mother drank alcohol during pregnancy
- May include physical, mental, behavioral, and/or learning disabilities with possible lifelong implications
- Not a diagnosis

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Terminology



- Fetal alcohol syndrome
 - Term first used in 1973 by Drs. Smith and Jones at the University of Washington
 - One of the diagnoses used to describe birth defects caused by alcohol use while pregnant
 - A medical diagnosis (760.71) in the International Classification of Diseases (ICD)

Terminology





May result in ==

FASD Facts



- 100 percent preventable
- · Leading known cause of preventable mental retardation
- · Not caused on purpose
- · Can occur anywhere and anytime pregnant women
- Not caused by biologic father's alcohol use
- Not a new disorder



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Fetal alcohol effects (FAE)	
Alcohol-related birth	
defects (ARBD)	
Alcohol-related	-
neurodevelopmental disorder (ARND)	
disorder (ARND)	
Partial FAS (pFAS)	
rantariris (priis)	
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Cause of FASD



- The sole cause of FASD is women drinking alcoholic beverages during pregnancy.
- Alcohol is a teratogen.

"Of all the substances of abuse (including cocaine, heroin, and marijuana), alcohol produces by far the most serious neurobehavioral effects in the fetus."

-IOM Report to Congress, 1996

FASD and Alcohol



- All alcoholic beverages are harmful.
- Binge drinking is especially harmful.
- There is no proven safe amount of alcohol use during pregnancy.







	inking Duri	/ 9///// 9////	// = / / / / / /
Drinks Per Day	Cumulative Fetal Exposure (Drinks per day x 270)	Fetal Exposure to Absolute Alcohol in Oz.*	Full Baby Bottles
1	270	135	
2	540	270	
10	2700	1350	

Alcohol and Women



- If a woman is pregnant, it does not matter what form the alcohol comes in.
 - Wine spritzers, alcohol pops
 - Beer
 - Wine coolers
 - Light beer, nonalcoholic beer

Check labels for alcohol content.

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Each one of these is one standard drink.



One standard drink is 12 ounces of regular beer or light beer (5% pure alcohol)



One standard drink is 12 ounces of wine cooler (5% pure alcohol)



One standard drink is 5 ounces of table wine (12% pure alcohol)



One standard drink is 1½ ounces of hard liquor (gin, rum, vodka, whiskey) (40% pure alcohol)



One standard drink is 3 ounces of fortified wine (18-20% pure alcohol)

Example



- 12 ounces of beer (.05% alcohol) = .60/.60 = 1
- 5 ounces of wine (.12% alcohol) = .60/.60 = 1 drink
- 1.5 ounces of liquor (.40% alcohol) = .60/.60 = 1 drink

*Formula:

(Ounces x % alcohol)/.60

	re more than one ndard drink.
7.5% or 6% pure alcohol	
8% pure alcohol	-
6% pure alcohol	

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Number of People With an FASD



- No one knows for certain how many individuals are born each year with an FASD.
- No one knows how many individuals are living with an FASD.

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Photo property of SAMHSA.

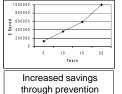
Economic Costs of FAS

- FAS alone cost the United States more than \$4 billion in 1998.
- The average lifetime cost for each child with FAS is \$2 million.
 - \$1.6 million for medical care services
 - \$0.4 million for loss of productivity

Lupton, Burd, and Harwood (2004)

Economic Costs of FAS

- One prevented case of FAS saves:
 - \$130,000 in the first 5 years
 - \$360,000 in 10 years
 - \$587,000 in 15 years

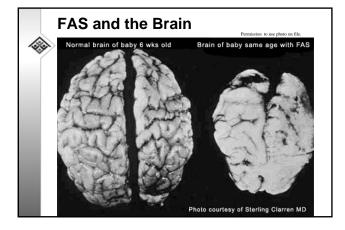


More than \$1 million in 30 years

Lunton Burd and Harwood (20)

FASD and the Brain

- Prenatal alcohol exposure causes brain damage.
- Effects of FASD last a lifetime.
- People with an FASD can grow, improve, and function well in life with proper support.



Who Needs To Know



- Women of childbearing age?
- Women who have a history of alcohol or other drug use?
- Women who are at risk?
- Teenagers?
- Men?
- EVERYONE!

Overall Difficulties for Persons With an FASD



- Taking in information
- Storing information



• Recalling information when necessary



• Using information appropriately in a specific situation

Primary Disabilities of Persons With an FASD



• Lower IQ



• Impaired ability in reading, spelling, and arithmetic



• Lower level of adaptive functioning; more significantly impaired than IQ

Streissguth, et al. (1996)

Typical Difficulties for Persons With an FASD



- Sensory Integration Issues
- Memory Problems
- Information Processing Problems
- Executive Function Deficits
- Self-Esteem and Personal Issues
- Multiple Issues
 - > Cannot entertain themselves
 - > Have trouble changing tasks
 - > Do not accurately pick up

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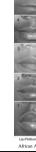
Diagnosing Fetal Alcohol Syndrome

- Prenatal maternal alcohol use
- Growth deficiency
- Central nervous system abnormalities
- Dysmorphic features
 - Short palpebral fissures
 Indistinct philtrum

 - Thin upper lip

Source: Astley, S.J. 2004. Diagnostic Guide for Fetal Alcohol Spectrum Disoria The 4-Digit Diagnostic Code, Third Edition. Seattle: University of Washington Publication Services, p. 114.





Differential Diagnosis of Features of FAS

- Differential diagnosis is very important because:
 - Many syndromes can cause features that look like
 - Facial features alone cannot be used to diagnose FAS.



FASD and Mental Health Disorders

- Prenatal alcohol exposure may lead to severe behavioral, cognitive, and psychiatric problems.
- FASD is not a psychiatric disorder.



• FASD can co-occur with a mental health or substance abuse disorder.

Helps decrease anger and frustration for individuals, families, providers, and communities by helping them understand that negative behavior results from the disability and is not willful	-		
Helps people with an FASD succeed by focusing on why they have trouble in certain programs	-		
Helps improve outcomes Helps prevent future births of children with an FASD	-		
Seneral Issues With FASD			
General Issues With FASD Often undiagnosed among persons without FAS facial features			
Often undiagnosed among persons without FAS	- - -		
Often undiagnosed among persons without FAS facial features More difficulties seen in those without FAS	-		

ACTIVITY #2

Strengths of Persons With an FASD • Friendly • Likable • Determined • Have points of insight • Desire to be liked • Not malicious • Helpful

Resources



- SAMHSA FASD Center for Excellence: <u>fasdcenter.samhsa.gov</u>
- Prevention First: www.prevention.org
- Centers for Disease Control and Prevention FAS Prevention Team: www.cdc.gov/ncbddd/fas
- National Institute on Alcohol Abuse and Alcoholism (NIAAA): www.niaaa.nih.gov/
- National Organization on Fetal Alcohol Syndrome (NOFAS): <u>www.nofas.org</u>
- National Clearinghouse for Alcohol and Drug Information: <u>ncadi.samhsa.gov</u>

Contact Information





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