

University of Pittsburgh

The following information has been adapted from the SAMHSA Core Curriculum: *Screening Patients for Substance Use in Your Practice* Setting, and slides by the National Screening, Brief Intervention & Referral to Treatment (SBIRT) Addiction Technology Transfer Center (ATTC) Network.

This project was a collaboration with the National ATTC, the Institute for Research, Education & Training in Addictions (IRETA) and the University of Pittsburgh School of Nursing.

Project Funding

This project was support in part by funds from the Center for Substance Abuse Treatment, Substance Abuse and Mental Health Services Administration (SAMHSA), Department of Health and Human Services (DHHS) under grant number 1U79TI025365, "SBIRT Training for Nurse Practitioners Across the Lifespan". The information or content and conclusions are those of the author and should not be construed as the official position or policy of, nor should any endorsements be inferred by the Center for Substance Abuse Treatment, SAMHSA, DHHS, or the U.S. Government.

Women and Alcohol Use

- Estimated that 5.3 million women in the United States drink in a manner that impacts their health and well-being
- Long-term alcohol consumption in woman increased risk for breast cancer, heart disease and other health conditions
- Heavy alcohol consumption increases a woman's risk for intimate partner violence
- Research suggests that women may be more likely to develop alcohol problems later in life.



Alcohol-Related Health Problems Specific to Women

- Women are more likely to develop alcohol-related hepatitis and cirrhosis of the liver
- Women are more vulnerable to alcohol-induced brain damage
- Research suggests that heavy alcohol consumption increases a woman's risk of breast cancer
- Women are more susceptible to alcohol-related heart disease

Alcohol and People of Childbearing Age

- Research has shown about 1 in 2 persons of child-bearing age (18–44 years) drink alcohol
 - 18% of individuals who drink alcohol in this age group binge drink
- Excessive drinking may disrupt the menstrual cycle and increase the risk of infertility
- Individuals may not know they are pregnant for up to 4 to 6 weeks
- In the United States, nearly half of pregnancies are unplanned

Alcohol and People who are Pregnant

- In the past 30 days, among pregnant persons
 - 10.2% reported alcohol use
 - 3.1% reported binge drinking



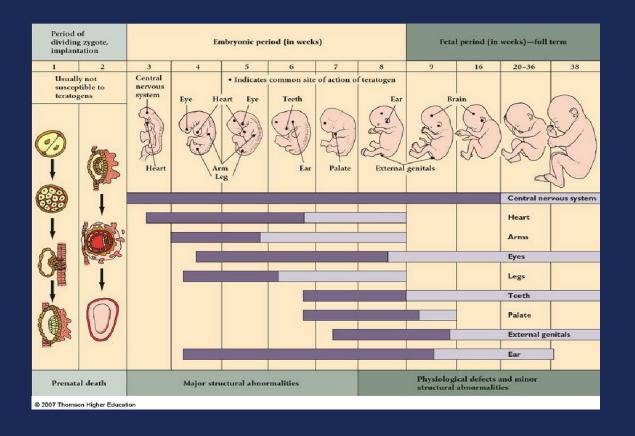
Highest Rates of Alcohol Use Among Pregnant Persons

- Aged 35-44 years (14.3%)
- White (8.3%)
- College graduates (10.0%)
- Employed (9.6%)

Fetal Alcohol Spectrum Disorders (FASD)

- Includes a 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
- Community studies estimate that as many as 2% to 5% of first grade students in the United States might have an FASD, which include physical, behavioral, or learning

University of Pittsburgh



Women and Drug Use

- Women become dependent on marijuana, heroin, cocaine and certain psychoactive prescription drugs more quickly than men
- 15.8 million women ages 18 or older have used illicit drugs in the past year
- 3.7 million women have taken prescription drugs non-medically during the past year
- 42 women die every day from prescription overdoses

Gender and Prescription Opioid Use

- Women are more likely than men
 - To be prescribed medications with the potential for misuse
 - Particularly opioid and anti-anxiety medications
 - To report prescription opioids as their primary drug of misuse

Women and Prescription Pain Medication Use

- 6,600 women died from prescription pain medication overdoses
- 200,000 women were admitted to emergency rooms for at-risk opioid
- Since 1999, there has been a 400% increase in prescription pain medication overdoses in women
- Every 3 minutes, a woman goes to the emergency room for at-risk opioid analgesic use

Co-Morbidities Among Women with Prescription Opioid Misuse

- Women are more likely than men to
 - Have concurrent psychological distress
 - Have histories of sexual or physical abuse and prior histories of psychological problems
 - Keep unused prescription pain medications
 - Co-use medications such as sedatives to enhance the effectiveness of the pain medication

Opioid Pain Medication and People of Childbearing Age

- CDC researchers analyzed information from Medicaid and private insurance datasets from 2008-2012 for women aged 15-44 years
 - 39% of women enrolled in Medicaid filled an opioid prescription each year
 - 28% of women enrolled in private insurance filled an opioid prescription each year

Opioid Use and Pregnancy

- Research suggests
 - There is an association between first trimester use of codeine and congenital heart defects
 - There is an association between opioid pain medication and
 - Neural tube defects (major defects of the baby's brain and spine)
 - Gastroschisis (a defect of the baby's abdominal wall)
 - A risk neonatal abstinence syndrome (NAS)

Opioid Use and Pregnancy

- Chronic heroin use during pregnancy is associated with
 - Increased risk of fetal growth restriction
 - Abruptio placentae
 - Fetal death
 - Preterm labor
 - Intrauterine passage of meconium

Women and Cannabis Use

While men are three times more likely to report smoking marijuana on a daily basis, preliminary research suggests that women

- Are more sensitive to the effects of marijuana
- Suffer more adverse medical effects
- Progress more quickly to dependence

Pregnancy and Cannabis Use

- Animal research suggests that THC exposure in fetal development may negatively affect brain development, particularly the development of emotional responses
- Human studies have shown that some babies exposed to marijuana during fetal development
 - respond differently to visual stimuli
 - tremble more
 - have a high-pitched cry

Pregnancy and Cannabis Use

Children exposed prenatally to marijuana, in school show gaps in

- Problem-solving skills
- Memory
- The ability to remain attentive

6 Patterns of Women's Substance Use

- 1. The gender gap is narrowing across ethnicities for substance use particularly among young women
- 2. Women are more likely to be initiated to substance use through a significant relationship, while marriage plays a protective role
- 3. Women accelerate to injecting drugs faster than men and the rituals and high-risk behavior surrounding substance use is directly influenced by their significant relationships

6 Patterns of Women's Substance Use

- 4. The earlier patterns of use for women (initiation age, amount, and frequency), are positively associated with higher risks of substance use disorders
- 5. Women are more likely to alter their substance use pattern in response to their caregiver responsibilities
- 6. Women progress faster from initiation of use to developing substance-related adverse consequences.

Women and Nicotine Use

- Most recent CDC survey, from 2012, 1 in 6 women, aged 18 years or older, reported that they smoked cigarettes
- Women who smoke are
 - More likely than men to develop lung cancer
 - Twice as likely to have a heart attack
 - More likely to have difficulty quitting smoking
 - More likely to start smoking again if they quit
 - More responsive to environmental cues and triggers

Smoking During Pregnancy

- Accounts for
 - 20 to 30% of low-birth weight babies
 - Up to 14% of preterm deliveries
 - About 10% of all infant deaths
- Has been linked to asthma in infants and young children

T-ACE

- Screening tool developed by obstetricians and gynecologists to detect alcohol consumption in pregnant women
- Normed only for pregnant women
- Developed after obstetrician noticed that asking women about their tolerance to alcohol did not trigger denial

T-ACE Screening Tool

T-ACE is a measurement tool of four questions that are significant identifiers of risk drinking (i.e., alcohol intake sufficient to potentially damage the embryo/fetus).

The T-ACE is completed at intake. The T-ACE score has a range of 0-5. The value of each answer to the four questions is totaled to determine the final T-ACE score.

Note:

- 1 Drink = 12 oz beer
- = 12 oz beer = 12 oz cooler
- = 5 oz wine
- = 1 mixed drink (1.5 oz. hard liquor)

Binge (drinking) = consuming 5 or more alcoholic drinks on an occasion

A total score of 2 or greater indicates potential risk for the purposes of Pregnancy Outreach Program identification of prenatal risk.

How many drinks does it take to make you feel high? less than or equal to 2 drinks more than 2 drinks	<u>T</u> olerance
Have people annoyed you by criticizing your drinking? No Yes	Annoyance
Have you felt you ought to cut down on your drinking? No Yes	Cut Down
Have you ever had a drink first thing in the morning to steady your nerves or to get rid of a hangover? No No Yes	Eye Opener
Total Score =	

Sokol, Robert J., "Finding the Risk Drinker in Your Clinical Practice" in G. Robinson and R. Armstrong (eds), Alcohol and Child Family Health: Proceedings of a Conference with Particular Reference to the Presention of Alcohol-Related Brith Defect. Vancouver, B.C., December, 1988.

(Sokol, Martier and Ager, 1989)

T-ACE

- 4 questions, similar to the CAGE
 - How many drinks does it Take to get you high? (more than 2 drinks = 2 points)
 - Have people Annoyed you by criticizing your drinking? (Positive response = 1 point)
 - Have you ever felt you ought to Cut down on your drinking? (Positive response = 1 point)
 - Have you ever had a drink first thing in the morning to steady your nerves (Eye opener)?
 (Positive response = 1 point)
- Any Score of 2 or more is positive

FASD and SBI and CHOICES

CHOICES

- Intervention aimed to reduce the risk of an alcohol-exposed pregnancy among
 - non-pregnant persons who are consuming at-risk levels and not using contraception effectively or consistently
- Promotes healthy lifestyle behaviors in a variety of health settings
- Targets individuals before they become pregnant to reduce their risk for an AEP.

CHOICES

- Works with individuals by encouraging effective contraception and/or alcohol consumption below atrisk levels in non-pregnant persons by:
 - Assessment of alcohol use and contraceptive use patterns
 - Counseling about the consequences of alcohol use during pregnancy
 - Brief advice and counseling for those with moderate-to-heavy to reduce intake levels, or referral
 to community treatment services for alcohol-dependent drinkers
 - Reproductive health education about contraceptive methods, provision of contraceptive services, and client follow-up

Treatment Challenges for Women

- Stigma of substance use
- Fear of loss of child custody
- Few resources for women with children
- Lack of collaboration among social service systems
- Lack of culturally responsive programming
- Limited options for pregnant women

Considerations When Making Treatment Referrals for Women

- Identify AOD treatment programs that provide specialized care for pregnant persons and/or those with children
- For women with a history of sexual or physical abuse, refer to a AOD treatment program that uses a trauma-informed treatment approach
- For women with co-occurring disorders, refer to integrated treatment programs

References

- American College of Obstetricians and Gynecologists. Opioid Abuse, Dependence, and Addiction in Pregnancy. Retrieved March 10, 2015 from http://www.acog.org/Resources-And-Publications/Committee-Opinions/Committee-on-Health-Care-for-Underserved-Women/Opioid-Abuse-Dependence-and-Addiction-in-Pregnancy
- Center for Substance Abuse Prevention (US). Addressing Fetal Alcohol Spectrum Disorders (FASD). Rockville (MD): Substance Abuse and Mental Health Services Administration (US); 2014. (Treatment Improvement Protocol (TIP) Series, No. 58.) Chapter 1, Prevention of Alcohol-Exposed Pregnancies among Women of Childbearing Age. Available from: https://www.ncbi.nlm.nih.gov/books/NBK344231/
- Center on Addiction. (2017). Addiction in Women. Retrieved August 05, 2018 from https://www.centeronaddiction.org/prevention/addiction-women
- Centers for Disease Control and Prevention. (2015a). Facts about FASDs Obtained January 15 from http://www.cdc.gov/ncbddd/fasd/facts.html
- Centers for Disease Control and Prevention. (2015b). Alcohol Use in Pregnancy. Obtained February 12, 2015 from http://www.cdc.gov/ncbddd/fasd/alcohol-use.html
- Centers for Disease Control and Prevention. (2015c). Opioid Painkillers Widely Prescribed Among Reproductive Age Women. Retrieved August 9, 2018 from http://www.cdc.gov/media/releases/2015/p0122-pregnancy-opioids.html

References

- Centers for Disease Control and Prevention. (2015d). CHOICES A Program for Women about Choosing Healthy Behaviors: A Facilitator Guide Obtained February 15 from http://www.cdc.gov/ncbddd/fasd/documents/facilitatorguide.pdf
- Center for Disease Control. Fact Sheets- Excessive Alcohol Use and Risks to Women's Health. (March 7, 2016). Retrieved from: https://www.cdc.gov/alcohol/fact-sheets/womens-health.htm on August 8th, 2018.
- Center for Disease Control. Fetal Alcohol Spectrum Disorders (FASDs): Basics about FASDs. (July 17, 2018). Retrieved from: https://www.cdc.gov/ncbddd/fasd/facts.html.
- National Center for Biotechnology. Alcohol and Other Drug Screening for Hospitalized Trauma Patients. Retrieved March 10, 2015 from http://www.ncbi.nlm.nih.gov/books/NBK64575/
- National Institute on Alcohol Abuse and Alcoholism. Alcohol: A Women's Health Issue. Retrieved March 10, 2015 from http://pubs.niaaa.nih.gov/publications/brochurewomen/women.htm.
- National Institute on Drug Abuse. Can Marijuana Use During Pregnancy Harm the Baby? Retrieved March 10, 2015 from http://www.drugabuse.gov/publications/research-reports/marijuana/can-marijuana-use-during-pregnancy-harm-baby
- National Institute on Drug Abuse. Sex and Gender Differences in Substance Use. (June 2018). Retriveved August 08, 2018 from https://www.drugabuse.gov/publications/drugfacts/substance-use-in-women

Copyright 2023, University of Pittsburgh. All Rights Reserved.

References

- Sex and Gender Women's Health Collaborative. Gender and Prescription Opioid Abuse. Retrieved March 10, 2015 from http://sgwhc.org/resources/professional-education/case-studies/gender-prescription-opioid-abuse/#sthash.mtdXa2iD.1FySFabX.dpbs
- Sokol, R.J.; Martier, S.S.; and Ager, J.W. The T-ACE Questions: Practical prenatal detection of risk drinking. *Am J Obstet Gyn* 60:863-870, 1989.
- Substance Abuse Mental Health Service Administration. Addressing the Special Needs of Women: Treatment Improvement Protocol 51.

 Retrieved March 10, 2015 from http://store.samhsa.gov/product/TIP-51-Substance-Abuse-Treatment-Addressing-the-Specific-Needs-of-Women/SMA14-4426
- Tan, C., Denny, C., Cheal, N., Sniezek, J., and Kanny, D.(September, 2015). Center for Disease Control and Prevention- Morbidity and Mortality Weekly Report (MMWR): Alcohol Use and Binge Drinking Among Women of Childbearing Age United States, 2011–2013. (May 2015). Retrieved from: https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6437a3.htm, August 2018.
- Velasquez, M.M., von Sternberg, K., Parrish, D.E. (2013). CHOICES: an integrated behavioral intervention to prevent alcohol-exposed pregnancies among high-risk women in community settings. Social Work in Public Health. 28(3-4):224-33. doi: 10.1080/19371918.2013.759011
- Washington State University. Females More Sensitive to Cannabis; Males Get Munchies. Retrieved March 10, 2015 from https://news.wsu.edu/2014/09/03/females-more-sensitive-to-cannabis-males-get-munchies/#.VP7-jmd0zcc Copyright 2023, University of Pittsburgh. All Rights Reserved.