Substance Abuse, Addiction Recovery and Tobacco Cessation

Prioritizing Healthy Recovery

The Louisiana Campaign for Tobacco-Free Living

Empowering People and Communities Series



About TFL's Empowering People and Communities Series

Equitably bringing health education, resources and hope to people, populations, and communities in Louisiana.



Welcome.

We're happy you're joining us today.

The Louisiana Campaign for Tobacco-Free Living (TFL) is a program of The Louisiana Cancer Research Center, and we thank the TFL Advisory Board, and all our partners who work together to make Louisiana a healthier place to live, work, and play.









Our Agenda:

- 1. History of Addiction Treatment in Louisiana
- 2. Addiction Treatment in College
- 3. Tobacco Cessation During Addiction Recovery
- 4. The Harmful Effect of Nicotine/Tobacco Products
- 5. Opportunities for Population Health



Today's Panelists



Roy Baas, LAC, CCS, AADC, CCDP-D



Sean Simmons, MEd, MA Louisiana Tech University



Jean Hartzog, CTTS, NCTTP Northeast Delta Human Services Authority



Learning Objectives

- 1. Identify the addictive properties and brain response to nicotine
- 2. Explore current trends in addiction recovery services and how nicotine addiction is viewed/addressed.
- 3. Identify opportunities for promoting cessation of all addictive substances, including nicotine.
- 4. Identify and explain the SBIRT Process steps.
- 5. Identify resources available to promote cessation in the community and in recovery programs.



Addiction Treatment

- A Brief History
- Integration of mental health and addiction treatment
- Current Practices and Best Practices



Roy Baas, LAC, CCS, AADC, CCDP-D



Understanding Nicotine and the Products that are Harmful





Cigarettes are Toxic

CHEMICAL COMPOUNDS IN CIGARETTE SMOKE

THIS GRAPHIC OFFERS A SUMMARY OF A SELECTION OF HAZARDOUS COMPOUNDS IN CIGARETTE SMOKE & THEIR EFFECTS

ESTIMATED NUMBER OF CHEMICAL COMPOUNDS IN CIGARETTE SMOKE



NUMBER OF THESE COMPOUNDS WITH CONFIRMED CARCINOGENIC ACTIVITY

The compounds shown below are all found in cigarette smoke. The mass figures, given in µg, take into account both mainstream (inhaled) and sidestream smoke. 1 µg is equal to 1 millionth of a gram. Amounts of these compounds vary in different brands of cigarettes - these figures are approximate.

NICOTINE



- Approx. 919µg per cigarette - Addictive
- · Increases heart rate
- Increases blood pressure
- Increases blood glucose
- · Lethal dose: around 500-1000mg



- · Large class of compounds
- · Several are tobacco-specific Known human carcinogens
- Most carcinogenic: NNK & NNN · NNK: approx. 0.3µg per cigarette
- NNN: approx. 2-50µg per cigarette May cause reproductive damage



- Approx. 46-272µg per cigarette Known human carcinogen
- Damages bone marrow
- · Lowers red blood cell count May harm reproductive organs



- Large class of compounds
- Includes 2-aminonaphthalene: Known human carcinogen
- Linked with bladder cancer
- Approx. 0.04µg per cigarette

ACETALDEHYDE



- · Approx. 680-1571µg per cigarette Known animal carcinogen
- Probable human carcinogen
- · Irritant to skin & eyes
- · Irritant to respiratory tract

1,3-BUTADIENE



- · Approx. 36-191µg per cigarette
- Known human carcinogen
- Suspected human teratogen · Irritant to eyes & skin
- Irritant to upper respiratory tract

ACROLEIN



- Approx. 69-306µg per cigarette
- Possible human carcinogen Known DNA mutagen
- · Irritant to skin & nasal passages · May contribute to heart disease

POLYAROMATICS



- Large class of compounds
- Includes benzo[a]pyrene: - Known human carcinogen
- Known DNA mutagen
- Affects reproductive capacity
- Up to 0.14µg per cigarette







Vaping

Vaping is the act of inhaling and exhaling aerosolized chemicals produced by an electronic-cigarette.

Other terms: Vapes, Vape Pen, Mods, Pods, Vaporizers, or JUUL (Juuling).





Nicotine content can be more than in cigarettes



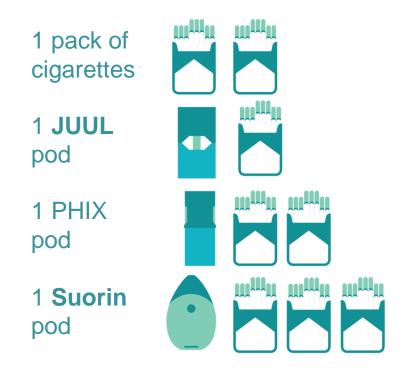


1 JUUL POD = 20 CIGARETTES WORTH OF NICOTINE



How Much Nicotine?

All salt-based ejuice/liquid contains nicotine







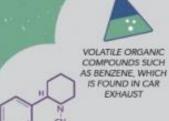
There's no smoke from e-cigarettes—just harmless water vapor.



FACT

The aerosol that's created when an e-cigarette heats up the e-liquid is not just water vapor; it is harmful for users and for others who are exposed to it secondhand.

THE E-CIGARETTE AEROSOL THAT USERS BREATHE FROM THE DEVICE AND EXHALE CAN CONTAIN HARMFUL AND POTENTIALLY HARMFUL SUBSTANCES:



ULTRAFINE
PARTICLES THAT
CAN BE INHALED
DEEPLY INTO
THE LUNGS



HEAVY METALS SUCH AS NICKEL, TIN, AND LEAD THAT CAN CAUSE RESPIRATORY DISTRESS



CANCER CAUSING CHEMICALS



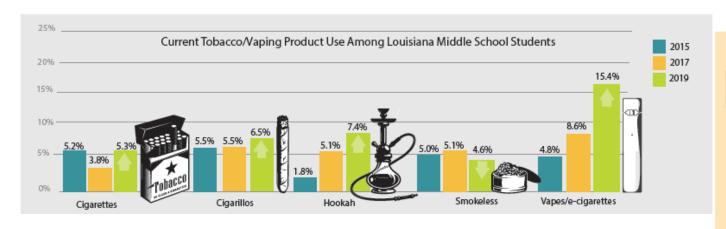
FLAVORING SUCH AS DIACETYL, A CHEMICAL LINKED TO A SERIOUS LUNG DISEASE





Youth Use on the on the Rise

In 2019, tobacco use among Louisiana middle school students slightly increased, however, vape use almost DOUBLED.







HOW DOES NICOTINE WORK IN THE BODY?



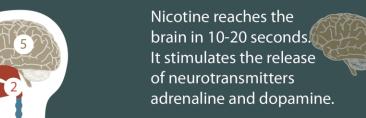
You smoke a cigarette or take a nicotine product. Nicotine is absorbed through the mucosal linings in the nose and mouth.



When you inhale, nicotine passes through the lung's membranes and into the bloodstream.



After it reaches the bloodstream, nicotine makes its way to your heart. There, it's transferred to your arteries, and up to your brain.



Nicotine is extensively metabolized to a number of metabolites by the liver.

Nicotine is filtered by the kidneys and excreted in urine, with variable reabsorption depending on urinary pH.



NICOTINE PRODUCTS



Cigarettes and e-cigarettes



Chewing Tobacco and Snuff

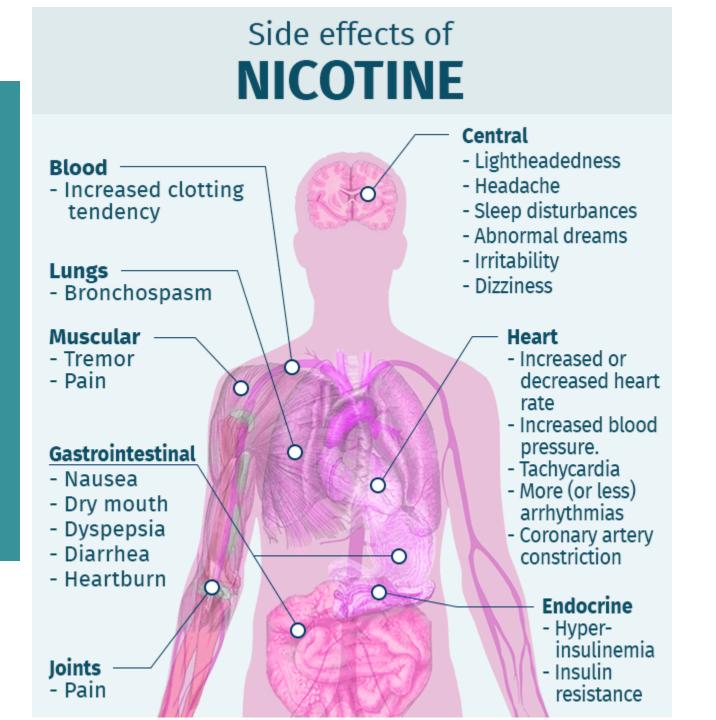


Pines





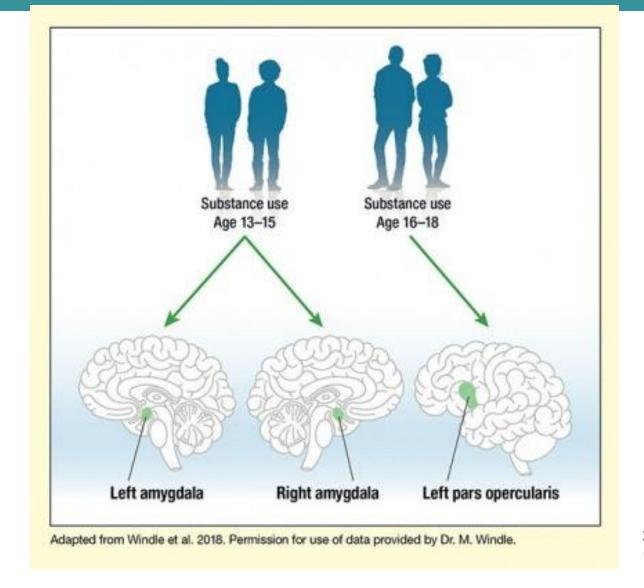
Even if it was 'just nicotine'





Brain Development and Addiction

Higher levels of alcohol, nicotine, and marijuana use before age 19 correlated with smaller gray matter volume in two brain areas.





Nicotine and Mental Health

- Nicotine actually changes adolescents' brain cell activity in the parts of the brain responsible for attention, learning, and memory
- Nicotine can worsen ANXIETY, IRRITABILITY, and IMPULSIVITY
- Nicotine-induced changes to the brain during adolescence can be permanent
- Nicotine's harm can lead to long-term effects on the ability to make decisions and can also leave teens with an increased risk of addiction to other substances

There is NOTHING good about nicotine



Nicotine and Mental Health

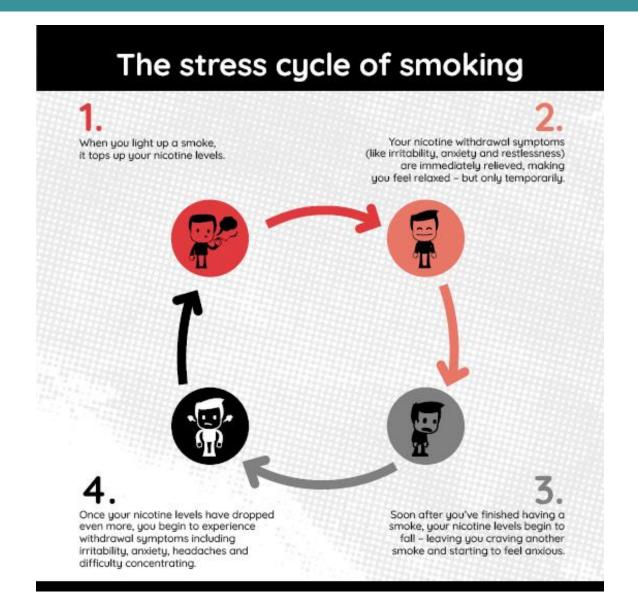
- E-cigarette users report higher stress than non-users
- Tobacco addiction is associated with:
 - Schizophrenia
 - Mood Disorders
 - Anxiety Disorders

- During Adolescence exposure to nicotine can increase likelihood of developing chronic mental health disorders
- Depression is highly associated with e-cigarette use





Nicotine and Mental Health







Nicotine Opens Pathways

- Those who reported past 30-day e-cigarette use at age 18 were more likely to report past 30-day cigarette use, alcohol use, marijuana use, and non-medical prescription drug use at age 19
- Use of nicotine e-cigarettes was associated with a greater likelihood of vaping marijuana for adults aged 25-54 years



SBRIT

Screening, Brief Intervention and Referral to Treatment

- Screening quickly assesses the severity of substance use and identifies the appropriate level of treatment.
- Brief intervention focuses on increasing insight and awareness regarding substance use and motivation toward behavioral change.
- Referral to treatment provides those identified as needing more extensive treatment with access to specialty care.



https://www.samhsa.gov/sbirt

https://attcnetwork.org/centers/northwestattc/screening-brief-intervention-andreferral-treatment-sbirt



Addiction in College

- Academic Expectations
- Family Separation/ Issues
- Independence/Freedom
- Social Scene
- Greek Scene
- Availability of drugs/alcohol







Tobacco Cessation in Addiction Treatment Programs

- Mental Health
- Myths about tobacco cessation
- Possible Reasons for Resistance in Addiction Recovery







Services Authority

Resources to help with Anxiety, Depression, and Addiction

Northeast Delta Human Services Authority St. Francis Tobacco Cessation Program Vantage Tobacco Cessation Program Family Solutions Counseling Center **ULM Counseling Center** LA Tech Counseling Center

Go Care (also specializes in working with LGBTQ+ population)



Developmental Disabilities • Prevention & Wellness



Quitting

- Text QUIT to 47848
- Use the quitSTART app
 - Available in the Apple Store and on Google Play

- Speak to an expert
 - Call 1-800-QUIT-NOW
 - 1-800-784-8669
 - Visit QuitWithUsLa.org





Live Vape Free

Step 1

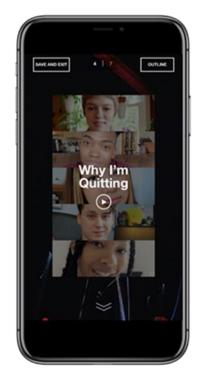
Participant texts
VAPEFREE to 873373

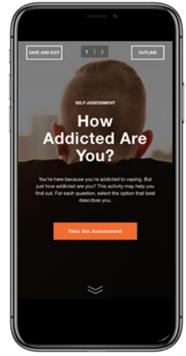
Step 2

Participant completes a brief assessment

Step 3

- Experience kicks off with the first introductory lesson
- Teen sets a quit date









Q&A Session

Let's start a conversation.



Thank you.

We look forward to seeing you again.

Please take the survey you will receive in your email inbox shortly.

