



DRUGS & MONEY

PRESENTATION BY DR. AMY HUBERT



Life Expectancy in America
DROPPED for the THIRD YEAR
in a row.

(This hasn't happened since
the FLU Pandemic 1918-1920!)



DRUG OVERDOSE is
now the #1 Cause of
Death under the age
of 50 in America

TEENAGE BRAIN DEVELOPMENTS

1. Synaptic Refinement: organized, cleans up connections, efficient pathways designed (THC)
2. Create Myelinated Pathways: fast patterns, make patterns that matter
3. **REWARD CENTER develops- Dopamine**

Compulsive, Perseverate

I have to do this, can't stop thinking about it
eat, sleep, reproduce

TEEN “DOPAMINE TOOL BOX”

Exercise

Friends

Music

Reading

Yoga

Meditation

HOW MUCH Dopamine
produced

How Many Dopamine
Receptors

How Fast Dopamine is
Metabolized

*Dopamine Receptors are
organized during
Adolescence!!!*

ADDICTION

1. Family History (50% risk for child)

2. **Exposure Age**

3. Childhood Trauma

DELAY: EVERY YEAR USE IS DELAYED DROPS RATE OF ADDICTION BY 8% (Wait to use over >> 21 years old, ERASES family history risk!!!)

ADDICTION: *A DEVELOPMENTAL DISEASE!*

- 99% of addiction occurs when use (nicotine, alcohol, drugs) starts during ages of brain development (TEENAGERS)
- 1% addiction rates if use is delayed AFTER age 26 when brain is developed

DELAY!

2 Alcohol Drinks/week

Age 15: 40% chance of becoming an alcoholic

Age 21: 7% chance of becoming an alcoholic

MARIJUANA/THC

THC is Neurotoxic to DEVELOPING brain

It impacts what synaptic connections are kept and which ones are eliminated (THC competes with Anandamide)

Average of 8 IQ point drop in adolescents (Forbes: indiv. With IQ of 110 have avg. net worth \$71K, indiv. With IQ 120 have avg. net worth \$128K- that's a tax bracket!) THIS IS PERMANENT!!

17% addicted as teens (weaker THC in past)

NOW 30-50% addicted as teens – rates higher than nicotine!
(People who use Marijuana before age 18 are 7 TIMES more likely to dev. Addiction than adults)

VAPING

Unregulated Industry

Recent study on 70 products that said “no nicotine” 90% had Nicotine in them equal to cigarette

JUUL Cigarettes- have nicotine levels EQUAL to a PACK of cigarettes

DRUG OVERDOSE is now the #1
Cause of Death under the age of
50 in America

(>>>50% of overdose deaths are
due to opiates)

OPIOIDS/OPIATES

Class of drugs (derived from Opium)

Illegal: Heroin

Synthetic: Fentanyl (80-100x stronger than Morphine, 50x times stronger than heroin)

Legal: Oxycodone, Hydrocodone, Morphine, Codeine

OPIOIDS MECHANISM

Pain Control and REWARD MECHANISM-

Dopamine

Brain Pleasure Centers

Brain Attachment Centers

Addiction Recovery – 8% (compared to 30 % with alcohol)

2017:

70,200 overdose deaths

47,600 Opioids

130 people die per day of an opioid overdose

46 people die per day from
PRESCRIPTION opioids overdose

COMMON PRESCRIBED MEDICATIONS

Oxycodone –Percocet,
Oxycontin, Roxicet

Hydromorphone- Dilaudid

Hydrocodone- Vicodin,
Norco

Tramadol- Ultram

Tylenol with Codeine- T-3

Diazepam- Valium

IT IS ILLEGAL
TO TAKE
MEDICATIONS
WITHOUT A
PRESCRIPTION!

PARENT TIPS

- Keep track of # of pills in bottle
- Keep track of refills
- If your child has an RX- You control it
- Ensure friends/relatives monitor meds
- Keep narcotic meds in locked cabinet
- Discard ALL unused/expired meds
- DELAY! DELAY! DELAY!
- TEENAGERS ARE NOT ADULTS!!!! They Do NOT know best.

TEEN TIPS

- 1 pill can kill
- An Rx drug- IS STILL A DRUG
- Taking a pill from a friend is ILLEGAL
- Pills and alcohol can = death
- Dealers combine drugs in 1 pill for PROFIT
- DELAY!!! Don't use nicotine, alcohol, drugs until brain has developed!
- Have a statement ready to use when confronted with drugs/alcohol/vaping



OPIOID DROP OFF LOCATIONS

In Cherokee County

All Sheriff and Police Departments

Canton

Holly Springs

Woodstock

Ball Ground



FLUSH DOWN TOILET LIST

The impact of flushing medications on the environment is LESS than the RISK of harm to humans in an accidental exposure.

ALL OPIOIDS!!!!

SUMMARY

- BRAIN DEVELOPMENT- DELAY DELAY DELAY
- EARLY DRUG = LOWER INCOME
- DO NOT TAKE MEDICATIONS THAT AREN'T YOURS