Addiction 101: Harm Reduction

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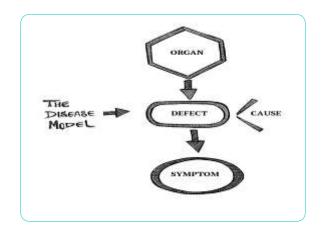
Why Talk About It

 As a society we do not treat addiction as a disease

- O Diabetes vs cancer vs addiction
- O Stigma both in and out of the 'circle' of recovery





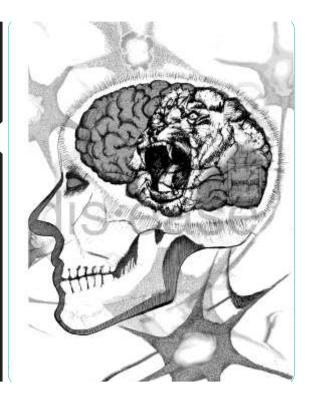


DEFINING DISEASE

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THE BRAIN... The GREATEST INSTRUMENT WE WILL NEVER FULLY UNDERSTAND

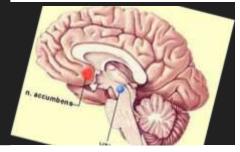
- The BRAIN is the organ involved in the disease of addiction
- Expensive (and honestly, not that great)
- So people with brain diseases start out at a disadvantage
- Everything we think, feel, do, say, imagine arises from direct and indirect electrical and chemical activity in the brain (if you are a reductionist)

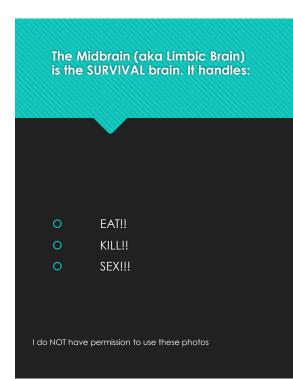


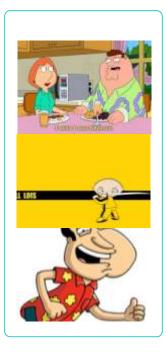
THE MIDBRAIN: A.K.A The TIGER

- Not conscious
- Acts immediately
- No goal planning
- No 'pros and cons'
- A life-or-death processing station











THE FRONTAL CORTEX: A.K.A The SUPERHERO

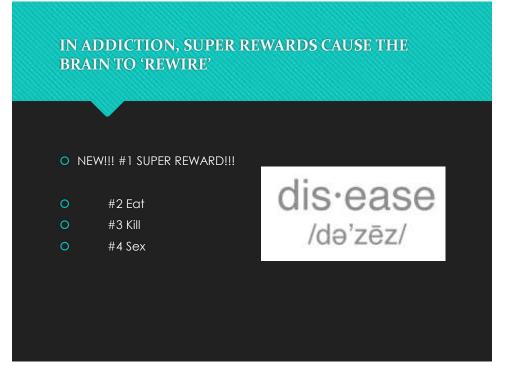
- O It's what makes "You"
- Seat of the Self and Personality
- Love, Morality, Decency, Responsibility, S pirituality
- Conscious "choice" and 'willpower
- O Where all your superpowers are located



Mice get addicted to SUPER REWARDS but...

- Mice don't have morals
- Mice don't have religion
- Mice aren't sociopaths
- Mice don't have bad parents
- Mice are not a product of the public education system





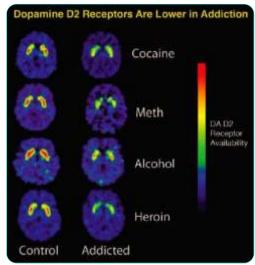


People dying of thirst in the desert will risk losing everything they value for a drink of water-> this is the midbrain in action shutting down the frontal cortex in an effort to SURVIVE

SUPER REWARDS BECOME EQUIVELANT WITH SURVIVAL

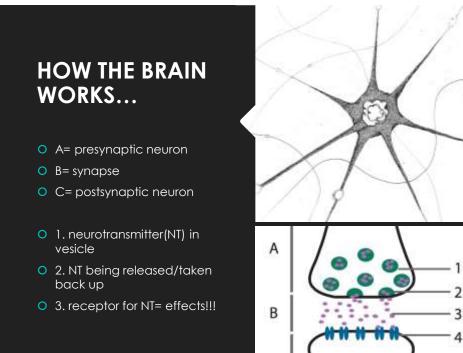






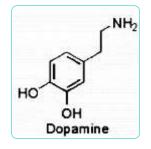
GET ON WITH THE DISEASE PROCESS ALREADY

ADDICTION IS A BROKEN 'PLEASURE SENSE' IN THE BRAIN



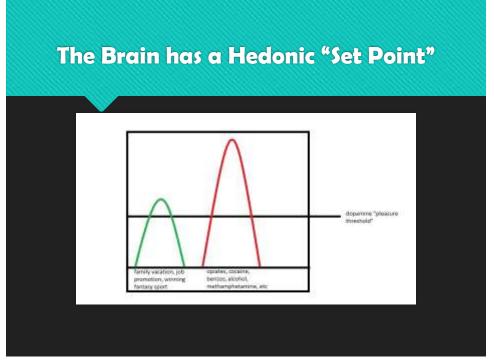
HOW THE BRAIN WORKS: Brain Perceptual Systems (all of them):

- O 1. Vision
- O 2. Hearing
- O 3. Touch
- O 4. Smell
- O 5. Taste
- **O** 6. Linear Acceleration
- 7. Angular Acceleration
- **O** 8. Gravity (Proprioception) ← perceptual construct
- 9. Blood pO2 and pCO2
- O 10. Pleasure ← perceptual construct



- •All drugs of abuse and potential compulsive behaviors release Dopamine
- Dopamine is first chemical of a pleasurable experience - at the heart of all reinforcing experiences
- DA is the neurochemical of salience (it signals survival importance)
- •Tells the brain this is "better than expected"

Addiction Neurotransmitter # I : Dopamine ONE OF THE ONLY THINGS IN LIFE WE ENJOY

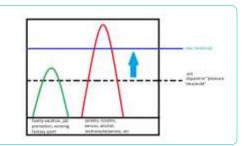


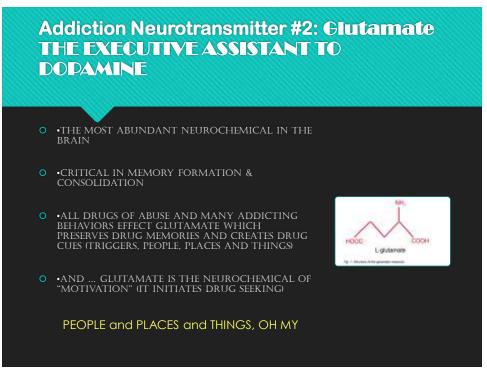


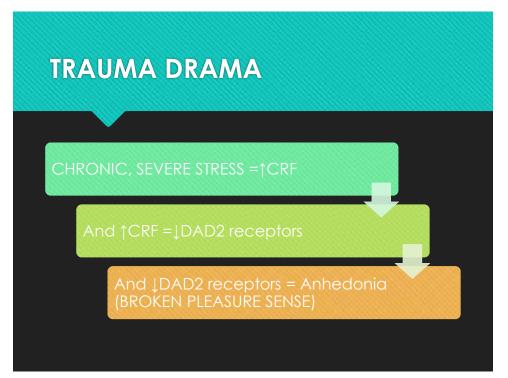
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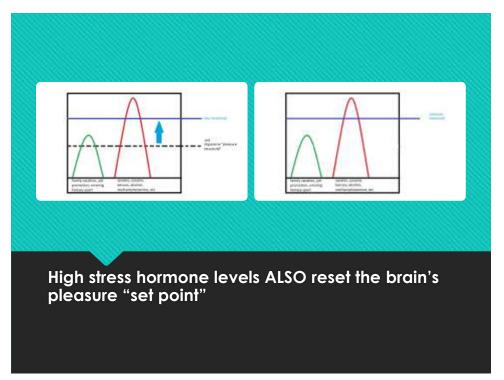
addicted

Increased drug use reset the brain's pleasure "set point"

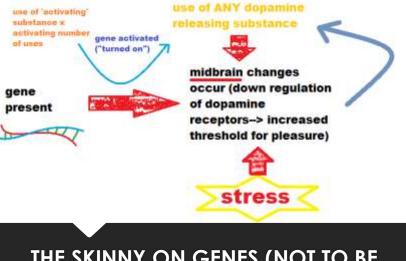












THE SKINNY ON GENES (NOT TO BE MISTAKEN FOR SKINNY JEANS)



• Now that the midbrain has found what secures survival...

... how does it motivate the individual to repeat that behavior? OKAY, FINE, HOW DOES THIS EXPLAIN ALL THE SHENANIGANS

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craving

- Increased stress = increased pleasure threshold = increased need for dopamine= midbrain thinks it is dying= CRAVING
- CRAVING is a physiological response to a neurochemical deficiency resulting in symptoms including sweating, stomach cramps, obsession, increased respirations, etc.
- O CRAVING IS THE REASON THE "CHOICE" ARGUMENT FAILS.
 - No person can choose to crave or not.
 - You don't actually have to have drug use for the defective physiology of addiction to be active



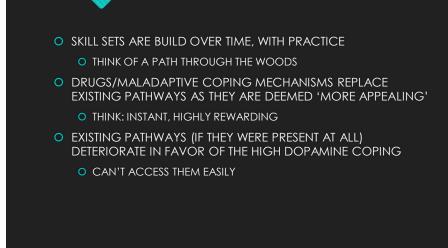
Once Craving sets in, how does it control behavior??? (A.K.A the shenanigans)

- The midbrain (like a ninja) hijacks the abilities of the frontal cortex...
 - The brain will utilize the most likely reasoning to get the addict to feel like they have to use
 - Pain (won't cause death)
 - Anxiety (won't cause death)
 - O Stress (won't cause death)
 - Specific people or events/reservations (ALWAYS a choice)
 - Brings the 'reason' up to the level of the conscious... so when the craving passes (time or use)...





SO WHAT'S GOING ON IN THE CORTEX?





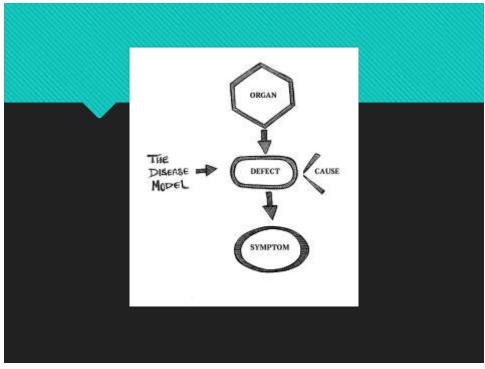
THE DISEASE MODEL... I DIDN'T FORGET, YOU FORGOT

 Addiction is a dysregulation of the midbrain dopamine (pleasure) system due to unmanaged stress resulting in symptoms of decreased functioning IN BOTH the midbrain and the cortex, Specifically:

O1. Loss of control

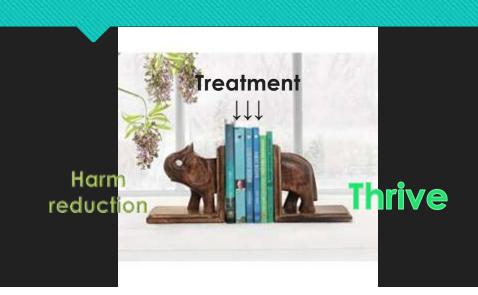
O2. Craving

O3. Persistent drug use despite negative consequences





Chronic disease



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BUT FIRST, DO NO HARM... NO, WAIT: FIRST, REDUCE HARM

Strategies and ideas aimed at reducing harm

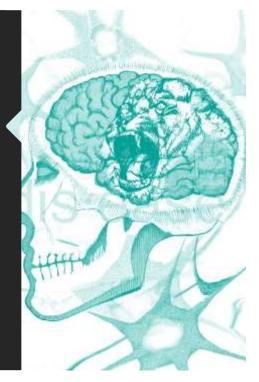
- Needle exchange
- Fentanyl testing strips
- Safe injection sites
- Free condoms
- Narcan availability (naloxbox)
- Drunk driving laws (they are NOT zero tolerance)

Movement for social justice and reduction of stigma

- Reduce/remove the need for anyone to have opinions on anyone else's journey to recover
- Establish quality of life for individuals with/without cessation
- Recognize real obstacles to recovery (poverty, racism, resource availability
- Empower addicts to help themselves and each other

IT ALL BEGINS WITH harm reduction

- Accepts, for better and or worse, that licit and illicit drug use is part of our world and chooses to work to minimize its harmful effects rather than simply ignore or condemn.
- Understands drug use as a complex, multi-faceted phenomenon that encompasses a continuum of behaviors from severe abuse to total abstinence, and acknowledges that some ways of using drugs are clearly safer than others.
- Establishes quality of individual and community life and well-being-not necessarily cessation of all drug use-as the criteria for successful interventions and policies.



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Harm reduction: Looks very different from the treatment pieces

- Calls for the non-judgmental, non-coercive provision of services and resources to people who use drugs and the communities in which they live in order to assist them in reducing attendant harm.
- Ensures that drug users and those with a history of drug use routinely have a real voice in the creation of programs and policies designed to serve them.
- O Affirms drugs users themselves as the primary agents of reducing the harms of their drug use, and seeks to empower users to share information and support each other in strategies which meet their actual conditions of use.

| | Harm Reduction Coalition – www.harmreduction.org The Stanton Peele Addiction Website –www.peele.net Motivational Interviewing - |
|---------|--|
| options | onalinterview.org/ Drug Policy Alliance Network- cy.org/ 12 Step (AA, NA, CA, MA etc.) Rational recovery - al.org SMART Recovery - nartrecovery.org/ Dual Recovery Anonymous, Dual Diagnoses Anonymous Attp://www.draonline.org/ Religion - http://www.celebraterecovery.com/ Moderation management - http://moderation.org/ Housing first and rapid re-housing: http://www.freedomcenter.org/section/res ources |



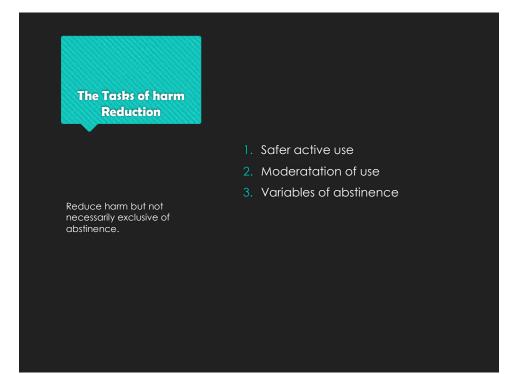
Basic harm reduction

Housing readiness/sober housing

- In other words, sobriety or abstinence (along with other skills) are a prerequisite to housing levels and independence.
- Housing/Independence may be jeopardized by substance use ("relapse") or treatment "non-compliance."
- Historically predominant approach: Steps towards housing is determined by providers.

Housing as a human right/low threshold

- Permanent housing is not dependent on compliance to treatment— drug or psychiatric treatment.
- Housing is seen as a very valuable intervention that creates stability.
- Low-threshold approach: Steps towards stability defined by consumers.





There are difficulties, of course

Negotiating Community/Neighbor Complaints

□ Aromas, Noise

Staff Challenges

□ Buy-In, Personal Reactions, Us Vs Them Factor

Navigating the "Rules," including leases and policy language

□Interactions with outside "traditional" providers

Complexity of information surrounding issues such as medications, laws



Harm reduction practices

Condoms/Variety of Safer Sex Supplies

Narcan

Safer Injection Facilities

Safer Use Supplies for Injecting, Smoking, Sniffing

Any Resources That Might Help: Know Your Rights, Bad Date Lists, Adulterated Drug Warnings, etc.



MAT vs MAT

Medication AS treatment

- O Replacement
- No other 'requirements'
- Goal to reduce harm/feel better/prevent OD
- O Client directed

Medication ASSISTED treatment

- Titration/stabilization
- Generally require 'treatment' to continue
- Goal is abstinence (other than medication)
- O Provider directed

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Treatment- middle of the bookshelf

- Varies from harm reduction with minimal treatment (individual counseling etc) up through abstinence based residential treatment.
- Can hop from 'volume to volume' back and forth along the shelf.
- Ultimate goal to restore the cortex so person no longer needs nor wants substances

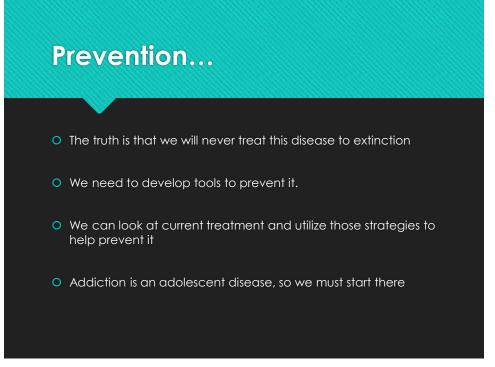
The other bookend Reconstructed... THRIVE

Recover

- A Chronic disease with a chronic timeline
- Relapse/remission/recovery can be like sliding back and forth
- Where do we go after 'recovery'

Reconstruction

- O Improving all areas of wellness
- O Nutrition
- O Movement
- Mindfulness
- Savings (finances and memories/experiences)



resources

- Harm Reduction Coalition http://harmreduction.org
- O Erowid https://www.erowid.org
- O International Harm Reduction Association http://www.ihra.net
- Woodhull Foundation http://www.woodhullfoundation.org
- International Network of People Who Use Drugs http://www.inpud.net
- Sex Workers Outreach Project http://www.swopusa.org
- Drug Policy Alliance http://www.drugpolicy.org
- Icarus Project http://theicarusproject.net



Substance Abuse & Addiction Services

If you need help, or need help for a loved one, don't wait, call us today!

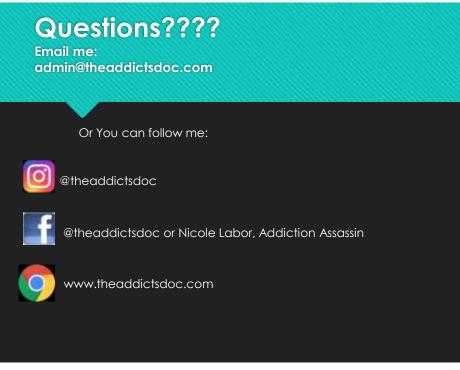
We offer same day assessments, so your path to recovery can begin as soon as you take the first step.

Phone: (330)264-8498

email: info@one-eighty.or

www.one-eighty.org

Three convenient locations: Main Offices: 104 Spink St., Wooster Wooster North: 128 E. Milltown Rd, Suite 105, Wooster Millersburg: 34-C S. Clay St. Millersburg



The Addictoholic Deconstructed: An irreverently quick and dirty education by a doctor who says f*ck, a lot

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