

Bio-Psycho-Social Model

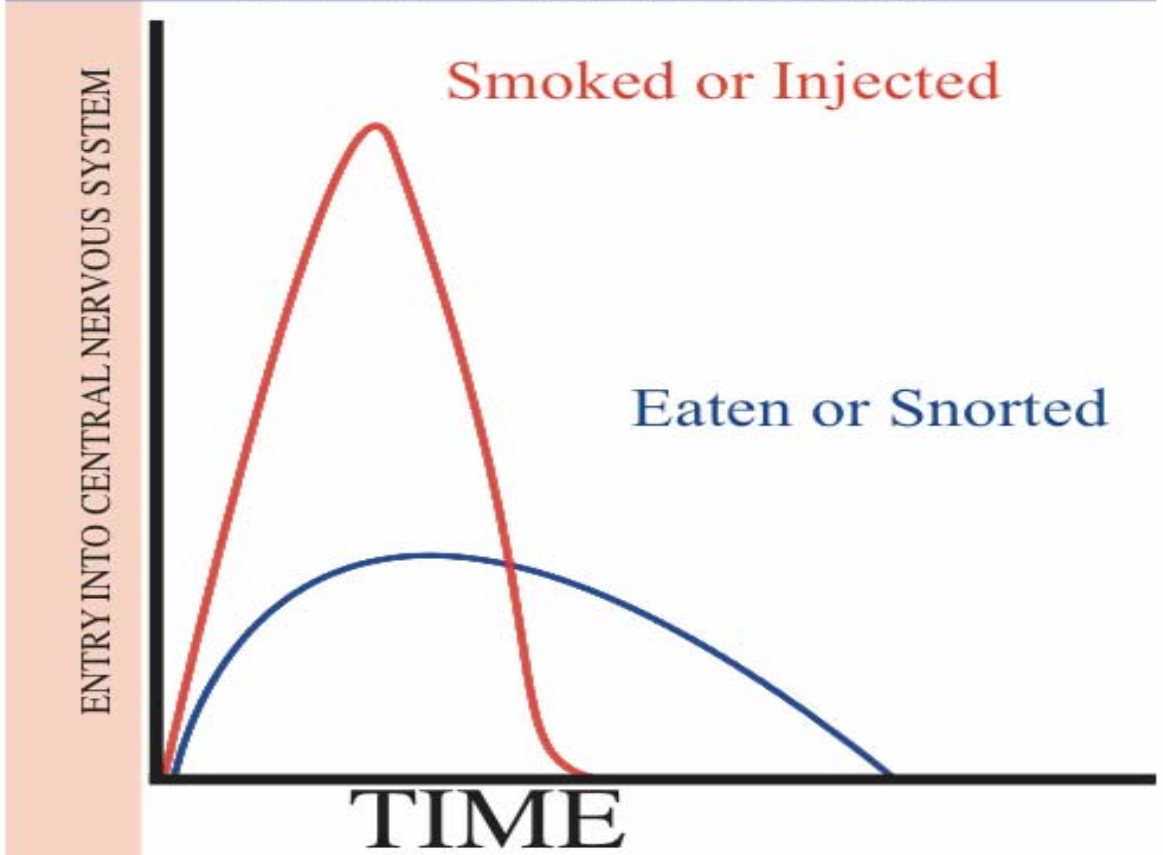
Predisposition
Genetics
Childhood Sexual Abuse
Mental Illness
+
The Drug /
Circumstances of First Use
+
Enabling System

What is Inherited?

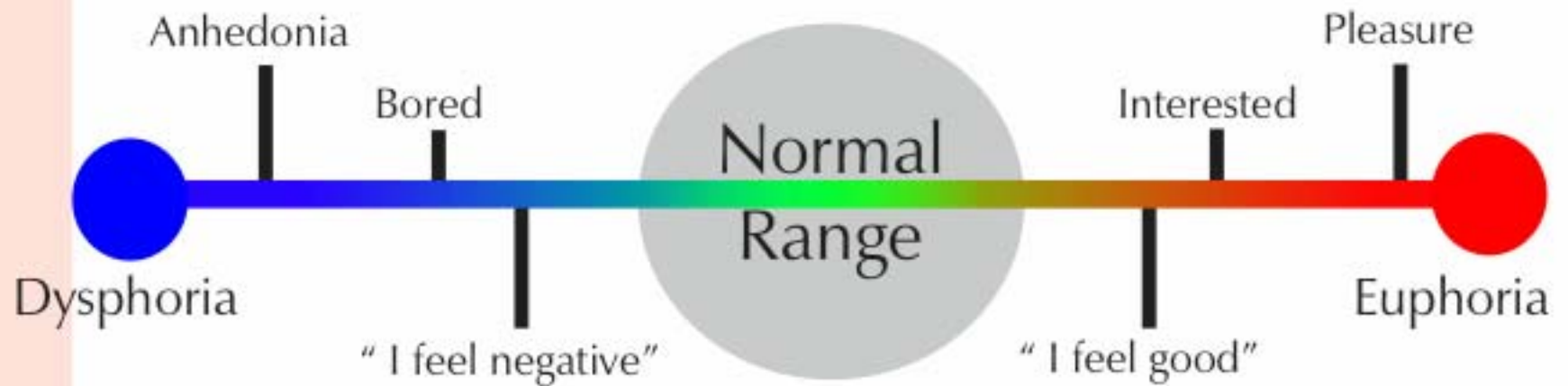
Genetics of Addiction

- Decreased “sensitivity” to alcohol and drugs (threshold for effect is higher)
- Prolonged response to alcohol and drugs
- More rapid acquisition of tolerance
- “Alcohol-preferring” rats have a five-fold greater release of brain dopamine in response to alcohol
- Greater “rebound” effect (withdrawal) after stopping
- Excess risk of toxic effects of alcohol, especially in the liver, brain, and pancreas

Brain Concentration versus Route of Administration



Pleasure Scale



© Copyright Revenant Technical

This document may not be copied, re-used or modified without the express written consent of the author and may not be distributed without this notice intact and visible. Revenant Technical reserves all other rights ®.

ADHD and Addiction

Four-year prospective study of 15 year-old boys.

- 75% Unmedicated ADD boys started abusing alcohol/drugs (N=19)
- 25% Medicated ADD boys started abusing alcohol/drugs (N=56)
- 18% Non-ADD boys started abusing alcohol/drugs (N=137)
- Treatment of ADD with medications reduced the risk of alcohol/drug abuse by 84 percent.

Adapted from Biederman J, et al. Pharmacotherapy of attention-deficit/hyperactivity disorder reduces risk for substance use disorder. Pediatrics 104(2):20, 1999

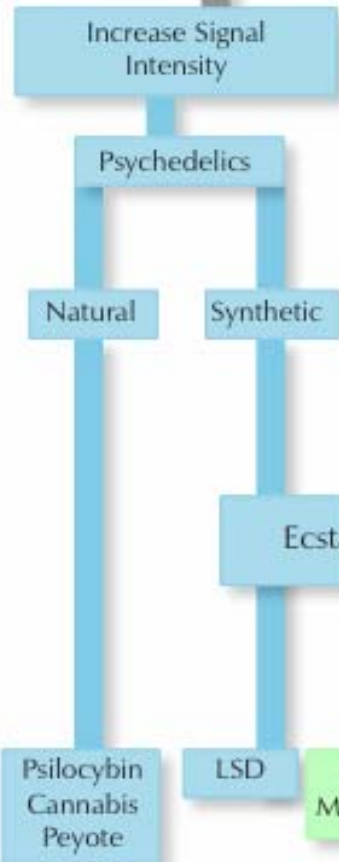
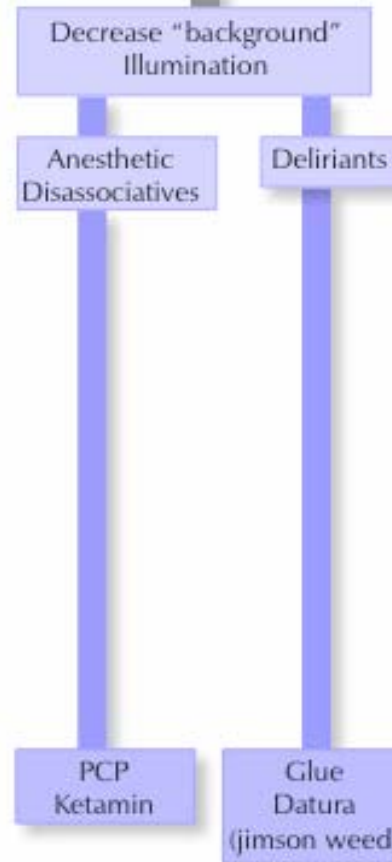
Dual Diagnosis

Mental Illness and Substance Abuse

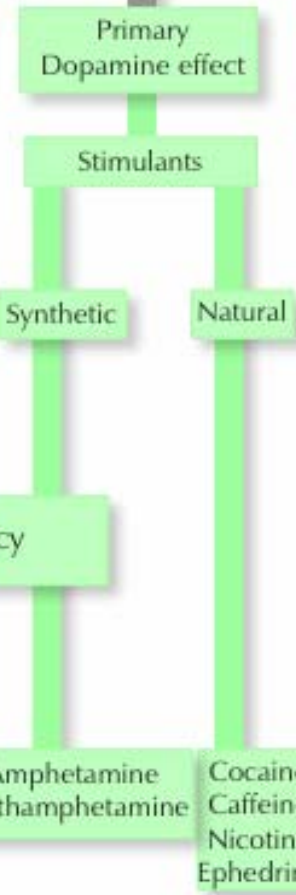
- Psychiatric diagnosis is excluded if symptoms are due to direct effects of a psychoactive drug or general medical condition.
- Consider dual diagnosis if
 - Onset of addictive disease in early or mid-teens
 - Indiscriminate polysubstance use
 - Frequent drug use despite engagement in treatment
 - Client dislikes sobriety
 - Mental health symptoms worsen over time.

Classification of Drugs of Abuse

Indirect Stimulation of Pleasure Pathways (Magnifiers)



Direct Interaction with Pleasure Pathways (Addicting Drugs)



© Copyright Revenant Technical
 This document may not be copied, re-used or modified without the express written consent of the author and may not be distributed without this notice intact and visible.
 Revenant Technical reserves all other rights.®