Opioid Use Disorder (OUD)

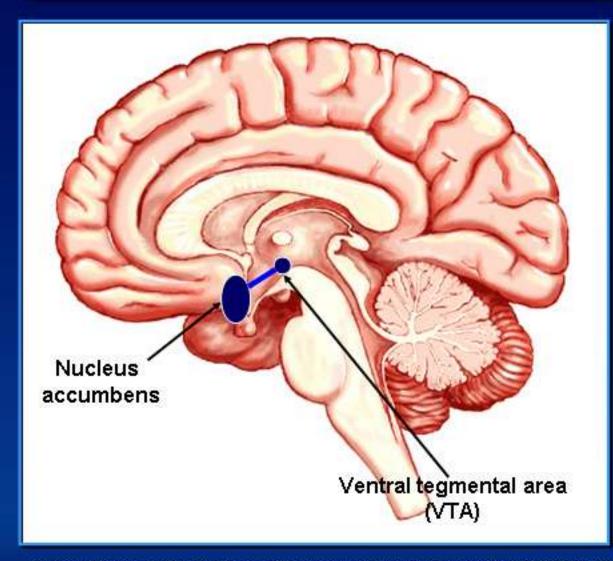
Opioid Summit II PBCMS November 2nd, 2019 Aldo Morales, MD, FASAM

DSM-5-- Substance Use Disorder:

A maladaptive pattern of substance use leading to significant impairment or distress, as manifested by 2 or more of the following within a 12-month period

- 1. Using larger amounts/ longer period than intended
- 2. Persistent desire or unsuccessful efforts to control use
- 3. Great deal of time spent to obtain, use or recover from effects
- 4. Cravings or strong desire or urge to use
- 5. Recurrent use resulting in a failure to fulfill major role obligations
- 6. Continued use despite recurrent social or interpersonal problems
- 7. Stopping/reducing important social, occupational or recreational activities due to using
- 8. Recurrent use in physically hazardous situations
- 9. Use continues despite knowledge of physical/psychological problem
- 10. Tolerance
- 11. Withdrawal

Brain Reward Pathways



•The VTA-nucleus accumbens pathway is activated by all drugs of dependence including alcohol

•This pathway is important not only in drug dependence, but also in essential physiological behaviors such as eating, drinking, sleeping, and sex

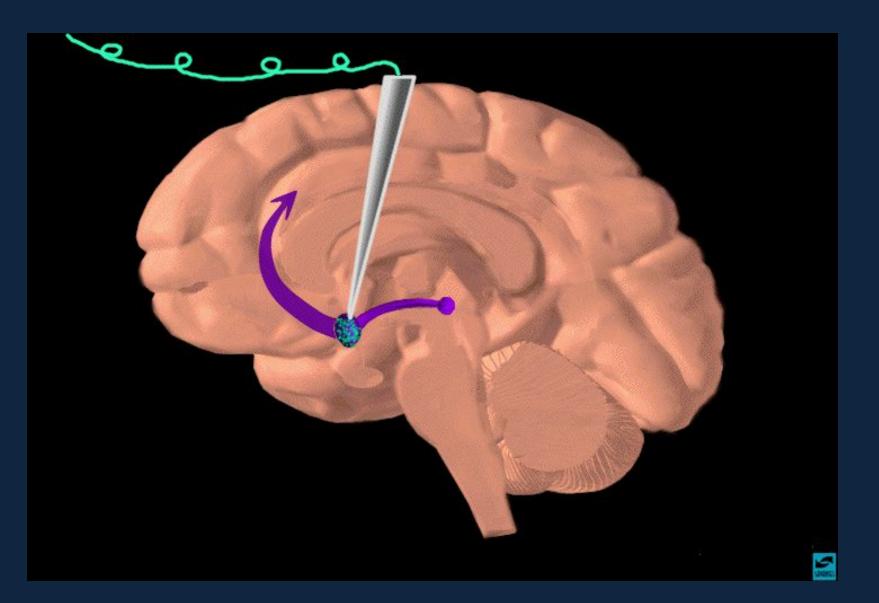
Source: Messing RO. In: Harrison's Principles of Internal Medicine. 2001:2557-2561.

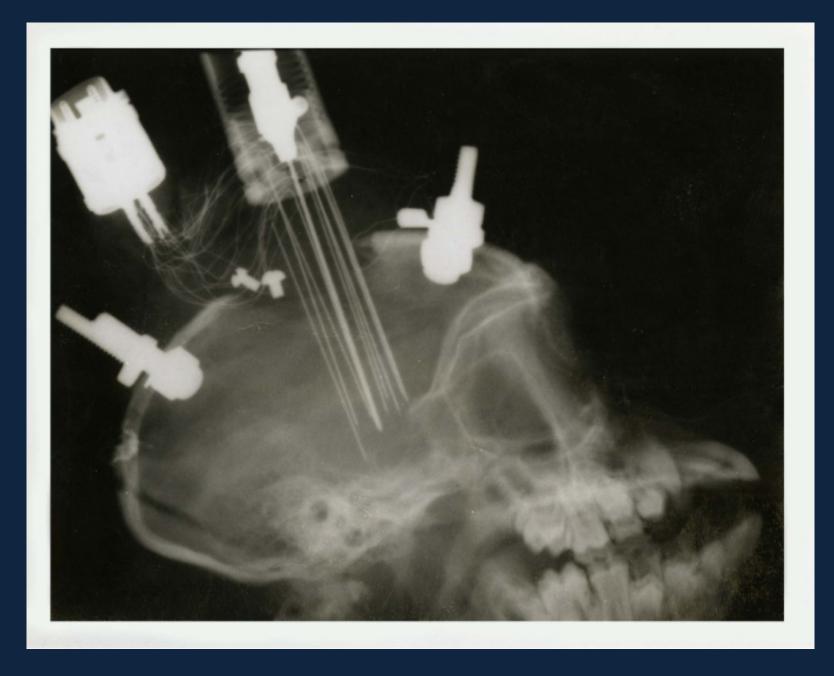
How do we know?

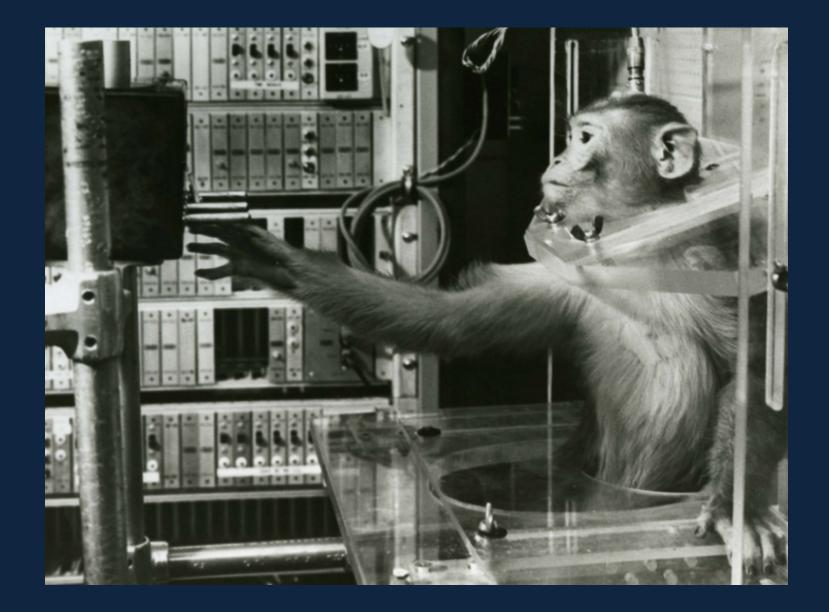
Human patients

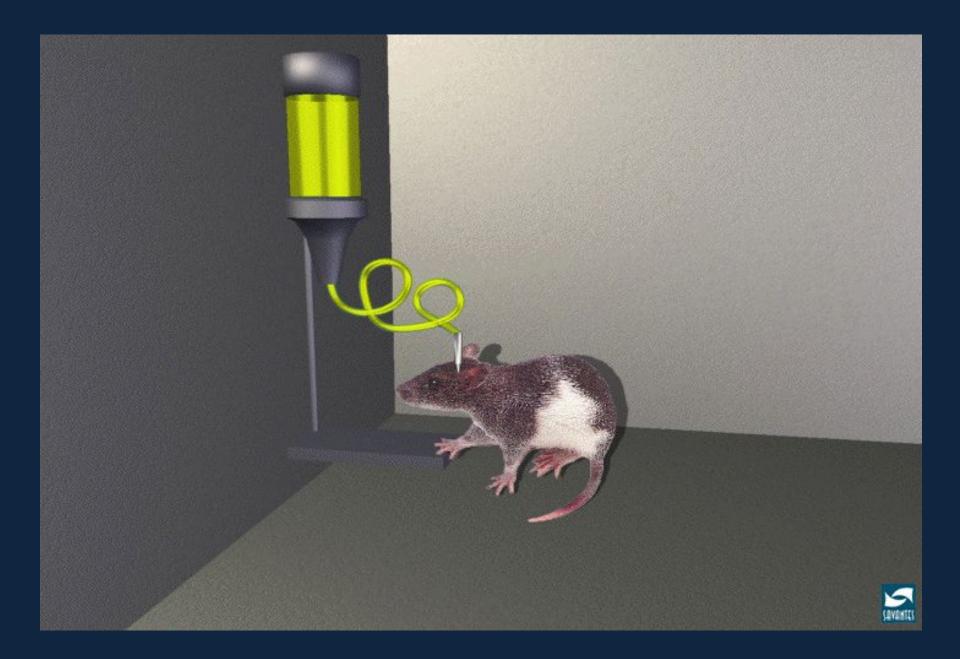
Laboratory animals



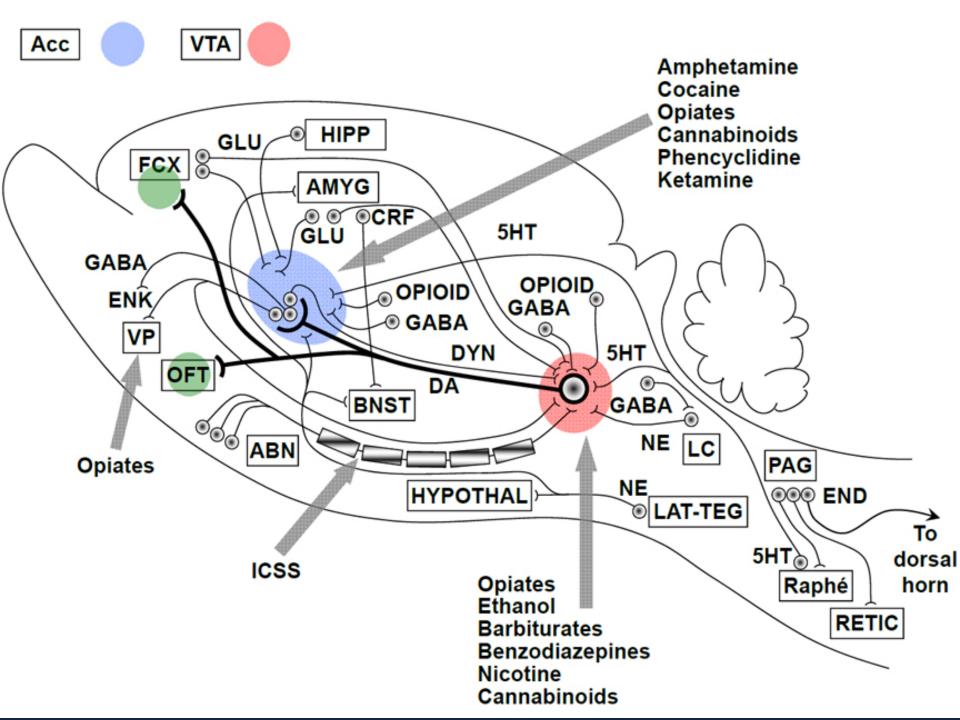


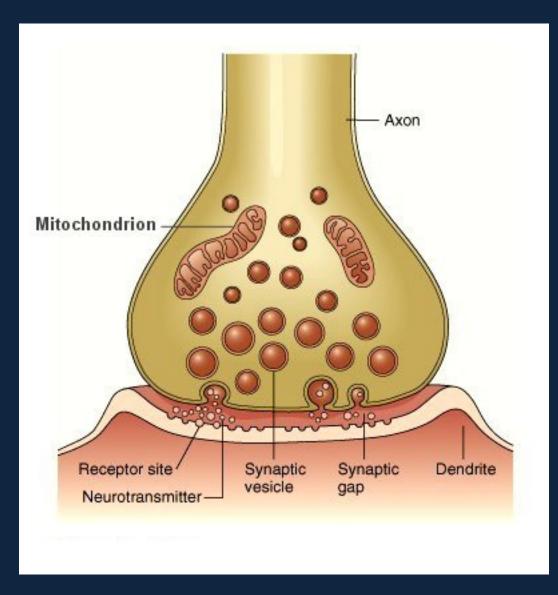


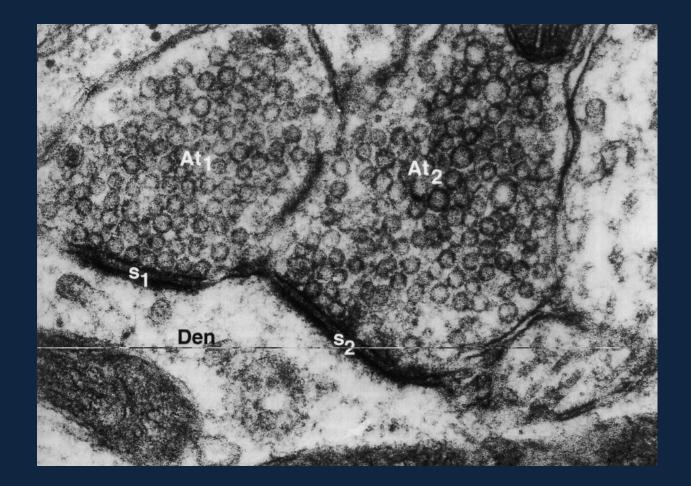


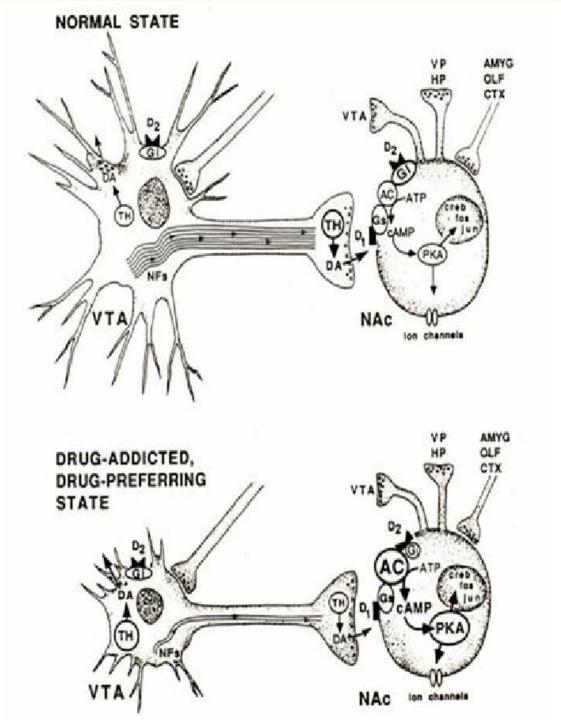








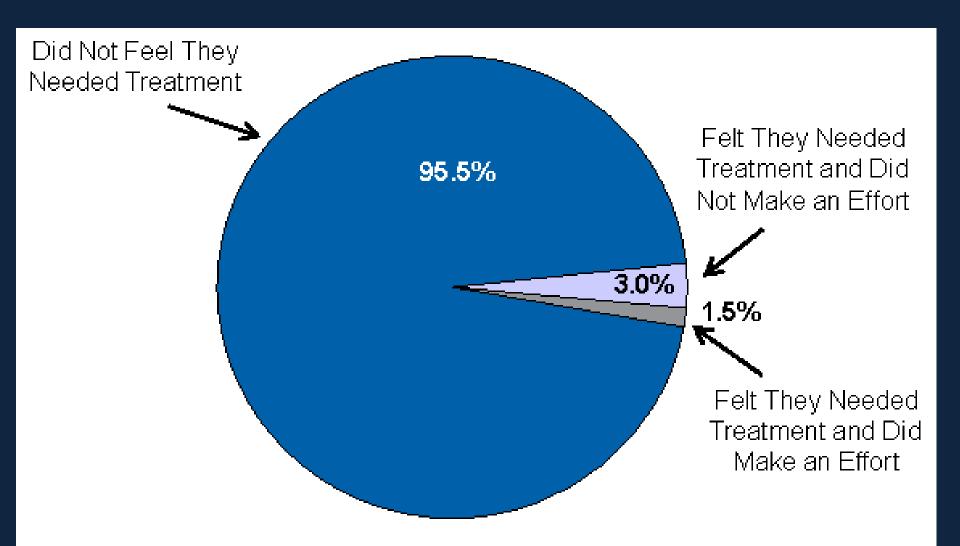




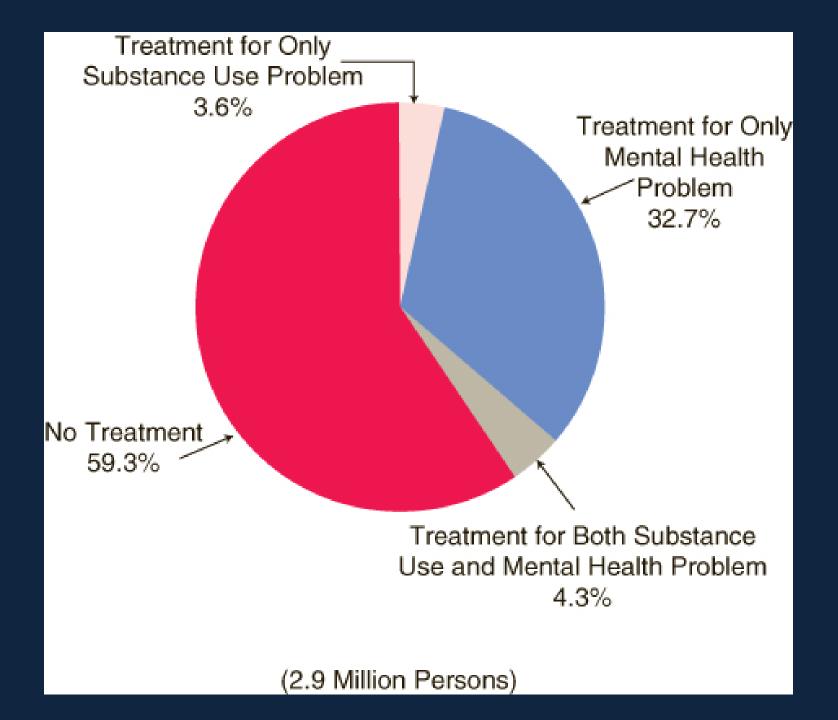


Treatment

"This patient has a rare form of medical insurance."



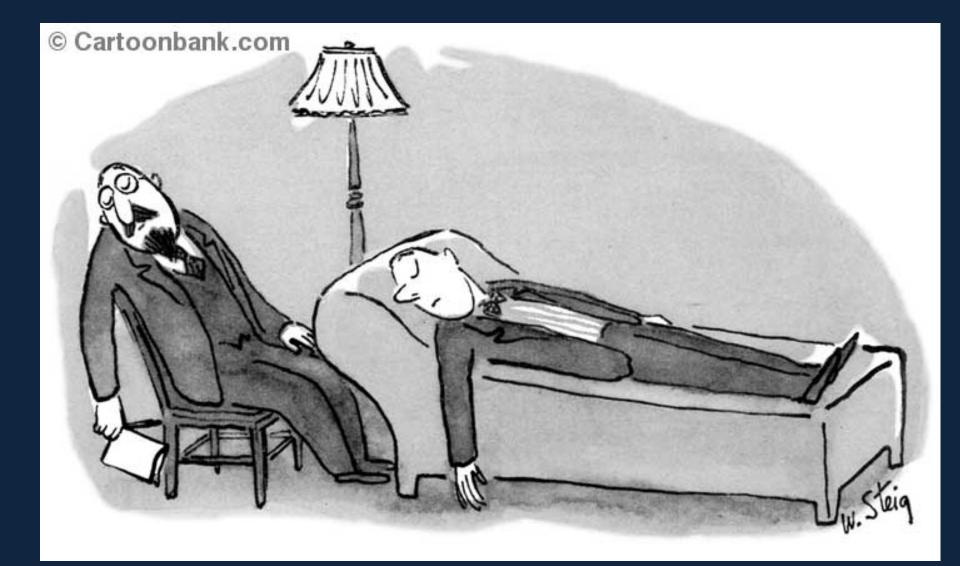
21.1 Million Needing But Not Receiving Treatment for Illicit Drug or Alcohol Use



Treatment

- Social
- Psychological
- Biological





Psychological Treatment

- CBT
- ACT
- Relapse Prevention
- Motivational Enhancement
- Contingency Management
- Dialectical Behavioral Therapy (L
- Individual Therapy
- Family Therapy
- Spirituality
- Self-help groups

(Hayes, Harris)(Marlatt, Gorski)(Miller, Moyers, Rollnick)

(Linehan)

Self-help groups

- Alcoholics Anonymous (AA)
- Narcotics Anonymous (NA)
- Rational Recovery
- Smart Recovery
- Medication Assisted Recovery Anonymous (MARA)

Treat medical complications

Treat psychiatric complications

The coexistence of a SUD and another psychiatric disorder (Dual Diagnosis) negatively affects the course,treatment and outcome of **both** conditions

Medications for OUD

Drug actions at the *mu* opioid receptor

1. agonist

2. partial agonist

3. antagonist

Drug actions at the *mu* opioid receptor

• <u>agonist</u>

heroin, oxycodone, hydrocodone, methadone, fentanyl, etc.

partial agonist

buprenorphine

• <u>antagonist</u>

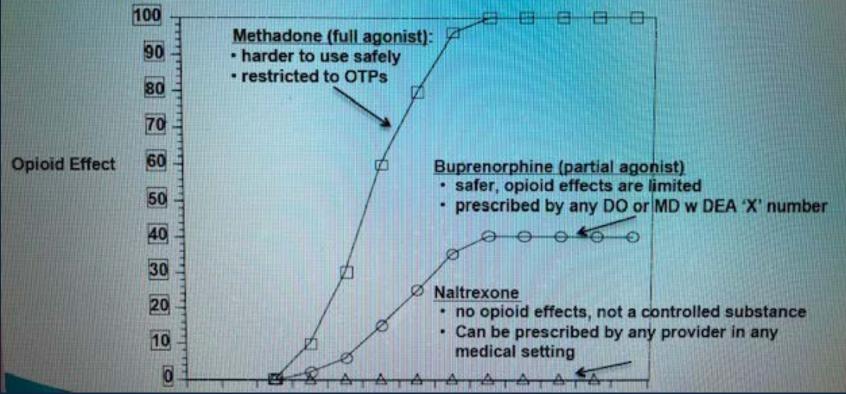
naloxone, naltrexone

Medications for OUD

methadone (MMT)

 Medication Assisted Treatment (MAT) buprenorphine naltrexone

The three medications have different opioid properties and differing safety profiles:



Suboxone (buprenorphine and naloxone)



Suboxone' (buprenorphine and naloxone) sublingual film

8 mg/2 mg

Children who accidentally take SUBCIDAL will need emergency medical cars. Keep Subbitive

suboxono.com

C

buprenorphine (partial agonist)

- Buprenex[®] (buprenorphine)
- Subutex[®] (buprenorphine)
- Suboxone[®] (buprenorphine + naloxone)
- Zubsolv[®] (buprenorphine + naloxone)
- Bunavail[®] (buprenorphine + naloxone)
- Butrans[®] / Belbuca[®] (buprenorphine)
- Probuphine[®] (bup 6-month implant)
- Sublocade[®] (bup 1-month SC injection)

naltrexone (antagonist)

(a) <u>oral</u> daily dose

(b) <u>parenteral</u> monthly IM injection

Opioid withdrawal: ancillary medications

- alpha-2 receptor agonist clonidine lofexidene
- muscle relaxants
- NSAIDs
- antiemetics
- antispasmotic agents
- anti-diarrheal agents
- anxiolytics

