# Pills, Pot & Alcohol

# Reducing the Risk of DUII

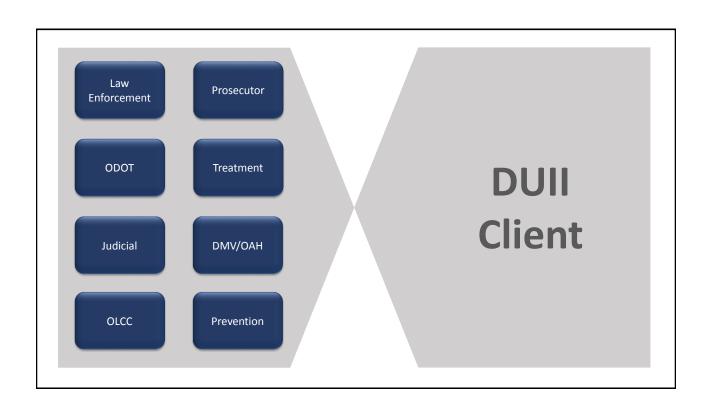
John Fitzgerald, PhD, LPC, CAS

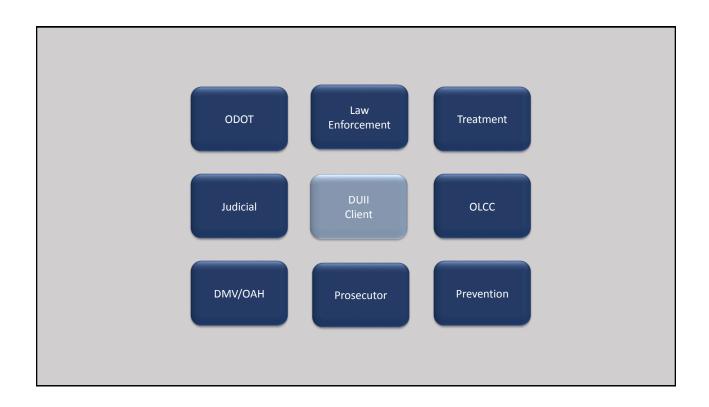


6,699 DUII in 2013

105 Alcohol-impaired driving fatalities
77.3% BAC was above .15

FBI Uniform Crime Report

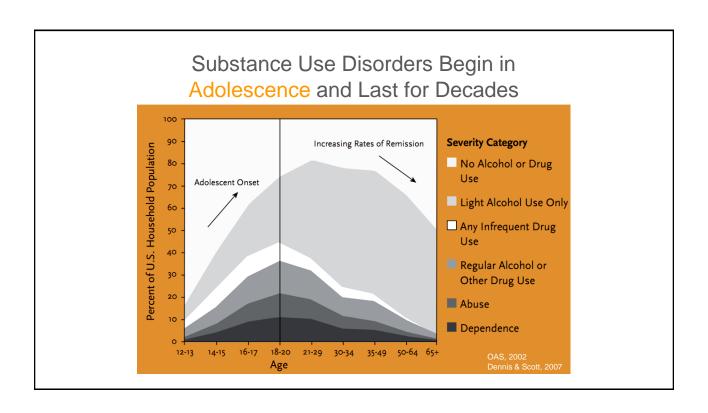


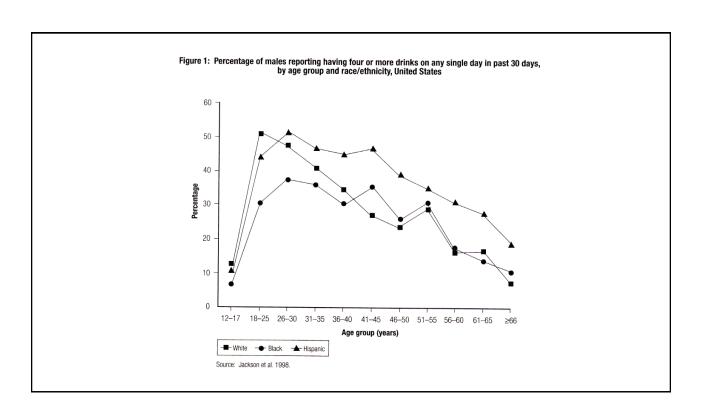


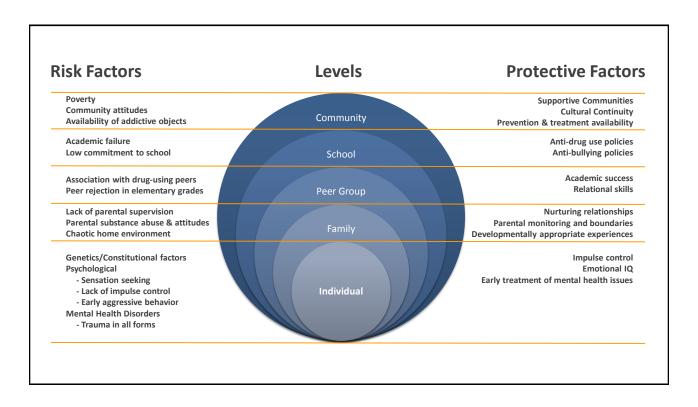
# Origins of Addiction

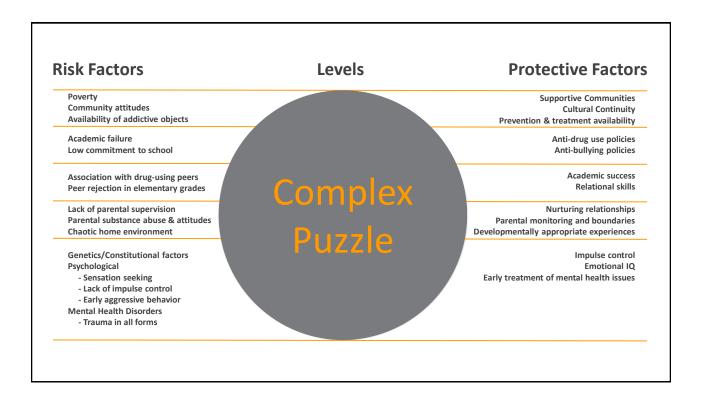


90% ≤ 20 years-old









Risk Factors Levels Protective Factors

# **Genes X Environment**

## Heritable Influences on Addiction

Substance/Behavior	Heritability Estimates
Nicotine	33-71%
Alcohol	48-66%
Marijuana	51-59%
Cocaine	42-79%
Opioid	23-54%
Gambling	49%

Source: Agrawal, A. et al. (2012)

# Adverse Childhood Experiences (ACEs)





# **ACE** STUDY

- San Diego, CA
- Kaiser Permanente Study
- Begin in Obesity Clinic
- Data collected 1995-1997
- 17,000+ participants

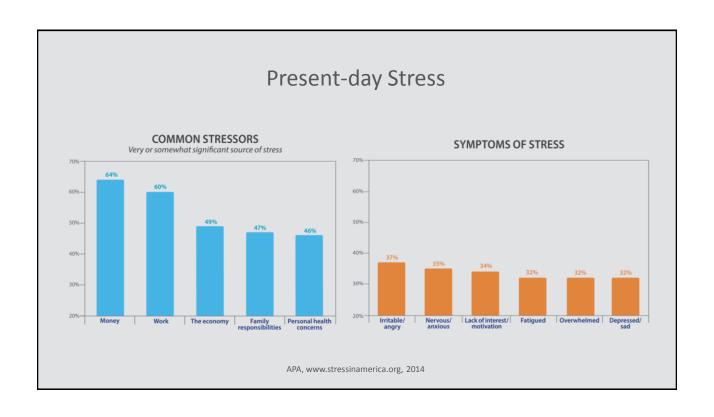
Abuse	Household
Psychological (by parents)	Substance Abuse
Physical (by parents)	Mental Illness
Sexual (anyone)	Parental Separation/Divorce
Emotional neglect	Battered Mother
Physical neglect	Criminal Behavior

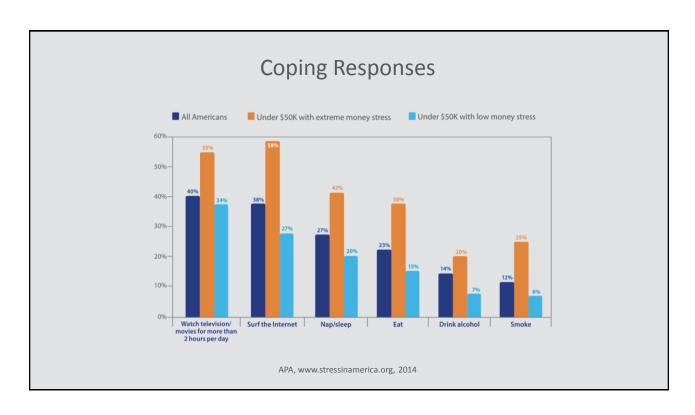
ACE Score	Women	Men	Total
0	31.3	34.2	32.7
1	24.2	27.3	25.6
2	14.8	16.4	15.5
3	10.4	9.3	9.9
4	6.8	4.8	5.9
5 or more	12.5	8.0	10.5



"Addiction is not a brain disease, nor is it caused by chemical imbalances or genetics. Addiction is best viewed as an understandable, unconscious, compulsive use of psychoactive materials in response to abnormal prior life experiences, most of which are concealed by shame, secrecy, and social taboo."

Vincent J. Felitti, MD Principle Investigator, Kaiser Permanente





Disease: Ebola

Terror: ISIS

Public Killing: Holmes & Rodger

School Killing: Adam Lanza

Suicide: Hoffman & Williams

War: Israel & Palestine

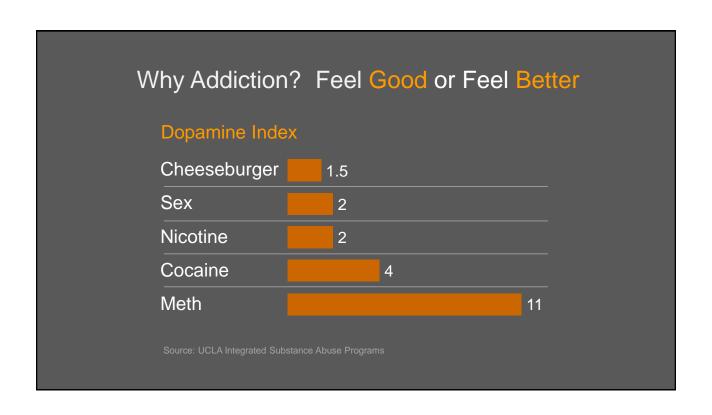
15 to 18 percent of working officers in the United States have undiagnosed symptoms of post-traumatic stress disorder.

John Violanti, U. of Buffalo



# Varieties of Addiction Experience





# Broad Universe of Addictive Experience

SEX	FOOD	GAMBLING	ALCOHOL	ILLICIT DRUGS	LICIT DRUGS
Fantasy sex	Pizza	Internet	Undistilled	Marijuana	Nicotine
Seductive role	Chocolate	Video keno	Beer	Cocaine	Bath salts
Anonymous	Chips	Horse & Dog	Wine	Heroin	Inhalants
Prostitution	Cookie	Stocks	Sake	PCP	Rx Drugs
Trading sex	Ice Cream	Dice games	Chicha	MDMA	Snuff
Voyeurism	French Fries	Casino games	Distilled	Amphetamine	eCigarettes
Exhibitionism	Cheeseburger	Sports cards	Rum	LSD	Coffee
Intrusive sex	Non-diet Soda	Games of skill	Vodka	K2/Spice	Cough syrup
Pain exchange	Cake	Bingo	Whiskey	Club drugs	Mushrooms
Object sex	Cheese	Sports	Brandy	Rx Drugs	Diet pills
Minor sex	Bacon	Lottery	Powdered	Steroids	Marijuana

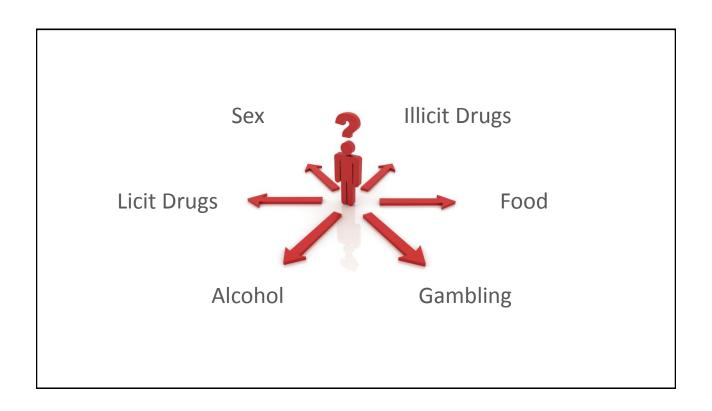
Other: Internet, exercise, relationships, working...

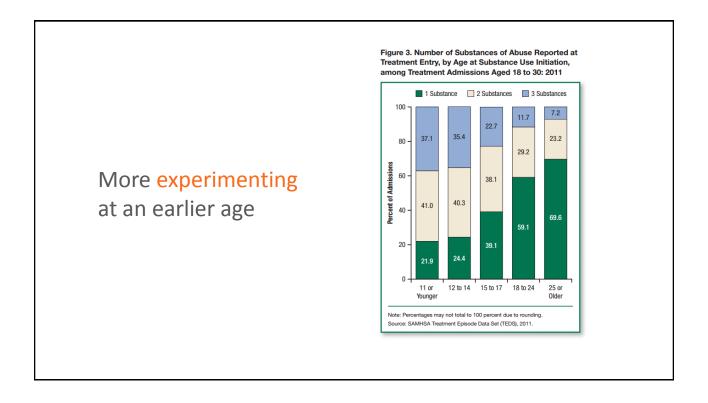
# Broad Universe of Addictive Experience

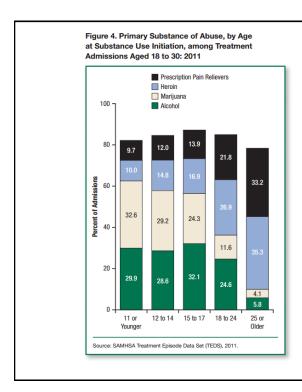
SEX FOOD GAMBLING ALCOHOL ILLICIT DRUGS LICIT DRUGS

**Behavioral** 

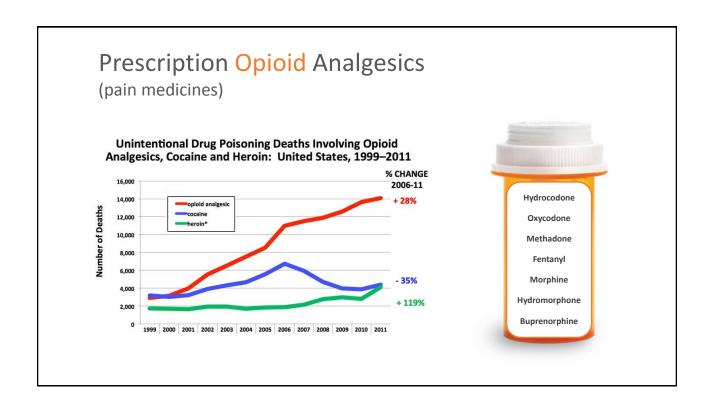
Substance

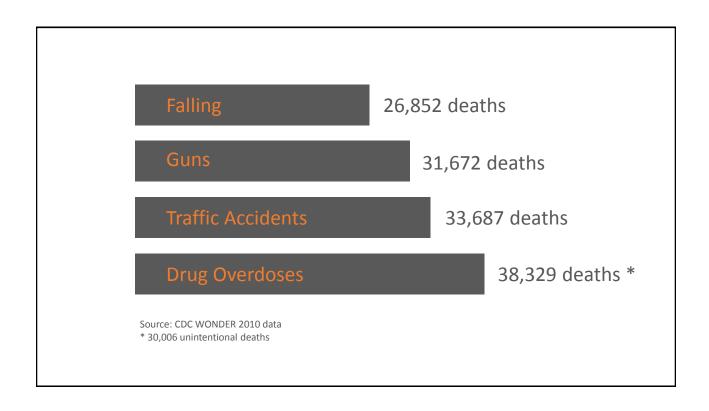






Shift from alcohol and marijuana to opiates as age increases







# Level of Confidence in the Evidence for Adverse Effects of Marijuana on Health and Well-Being

Effect	Evidence
Symptoms of chronic bronchitis	High
Motor vehicle accidents	High
Addiction to marijuana and other drugs	High
Diminished lifetime achievement	High
Abnormal brain development	Medium
Progression to abuse of other drugs	Medium
Schizophrenia	Medium
Depression or anxiety	Medium
Lung cancer	Low

Volkow et al., 2014

#### **TEENS**

- Interferes with brain development
- Relationship problems
- Poor academic performance
- Increased risk of accidents
- Health/mental health problems
- High risk sexual behavior
- Gateway to other drugs

6.5% daily abusers



# When considering legalization... policymakers need to:

- Prevent easy access to marijuana by teens
- Increase access and funding for adolescent treatment
- Consider regulating levels of tetrahydrocannabinol (THC)

1980s - 4% 2012 - 15%



### Surveillance of Abuse and Addiction

Private

#### **Drug Trends**

- National Survey on Drug Use and Health (NSDUH)
- Monitoring the Future (MTF)
- National Forensic Laboratory Information System (NFLIS)

#### **Treatment Trends**

Government

- Treatment Episode Data Set (**TEDS**)
- National Survey of Substance Abuse Treatment Services (N-SSATS)

#### **Behavioral Risk Trends**

 Behavioral Risk Factor Surveillance System (BRFSS)

#### **Drug Trends**

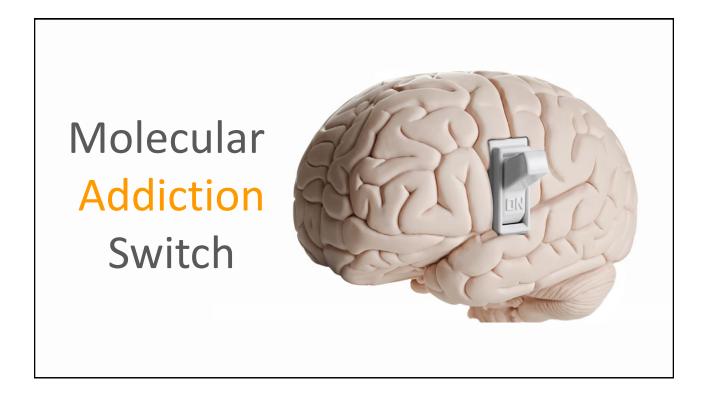
- The Researched Abuse, Diversion and Addiction-Related Surveillance (RADARS®) System
- Street RX
- National Addictions Vigilance Intervention and Prevention Program (NAVIPPRO)

# Consequences

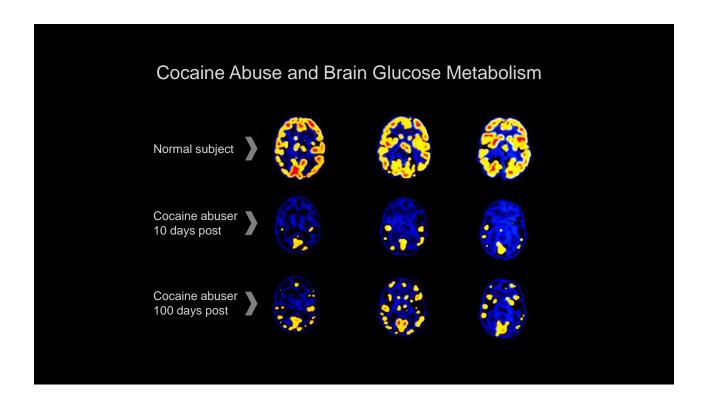


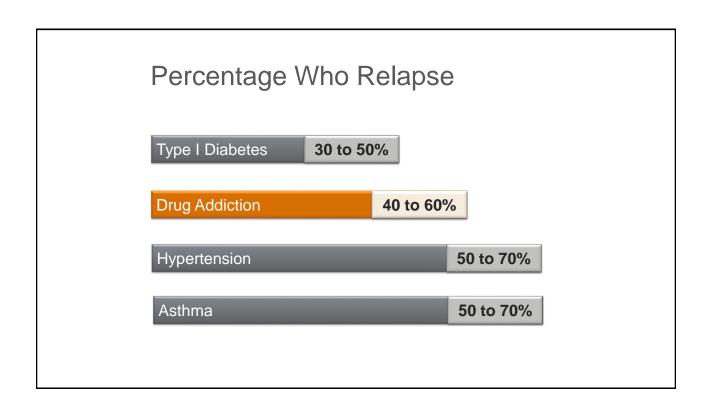
"Drug addiction is a brain disease."

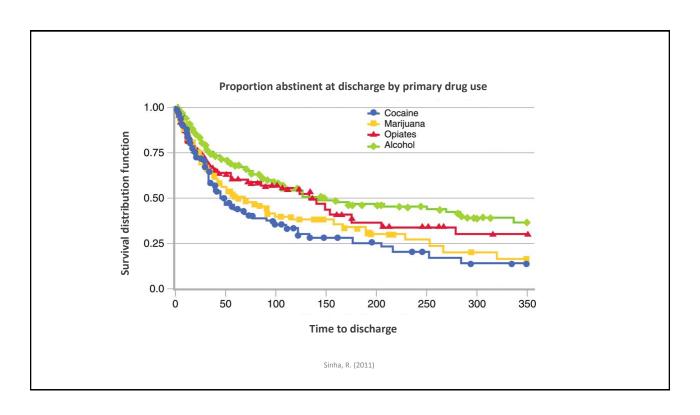
Nora Volkow, MD Director, National Institute on Drug Abuse

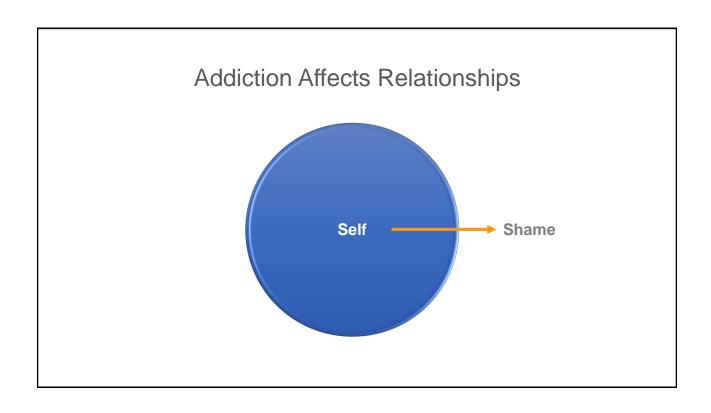


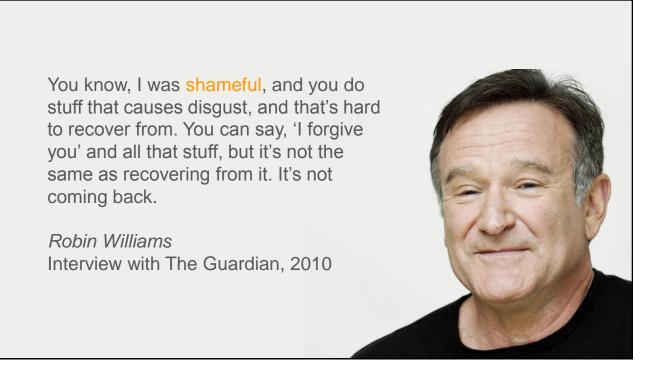


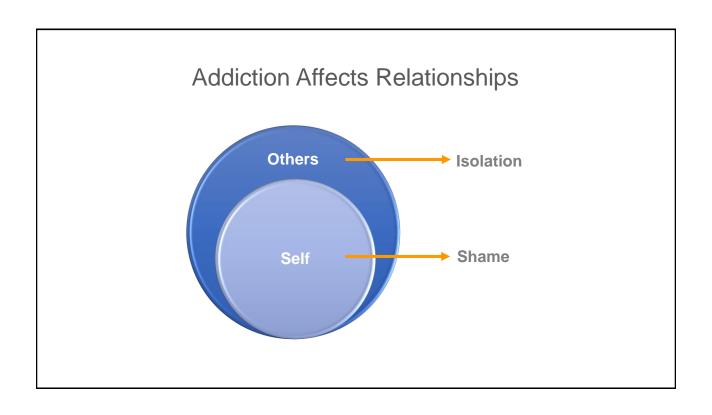




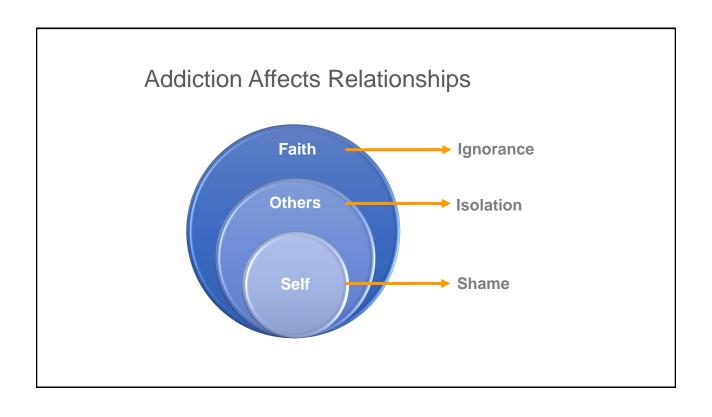












# We live two lives

# Pure consciousness Timeless/changeless Being Collective (one) mind



Outer life (Eye Open)

Physical reality

Time/change

Doing/action

Individual (ego) mind

# We live two lives

## Inner life (Eye Closed)

Pure consciousness
Timeless/changeless
Being
Collective (one) mind

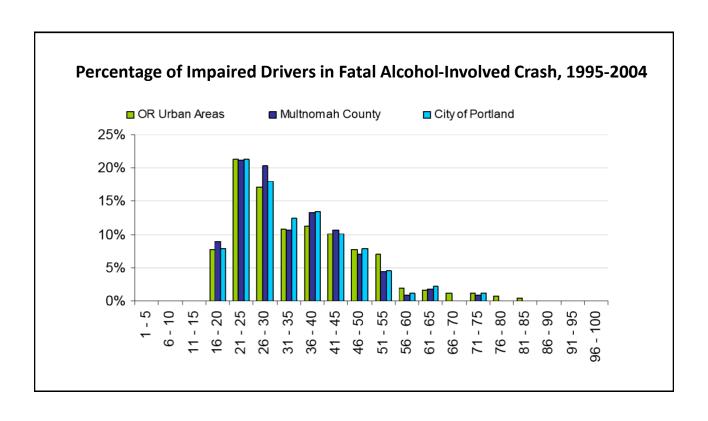


#### **Outer life (Eye Open)**

Physical reality
Time/change
Doing/action
Individual (ego) mind

# Risk Reduction



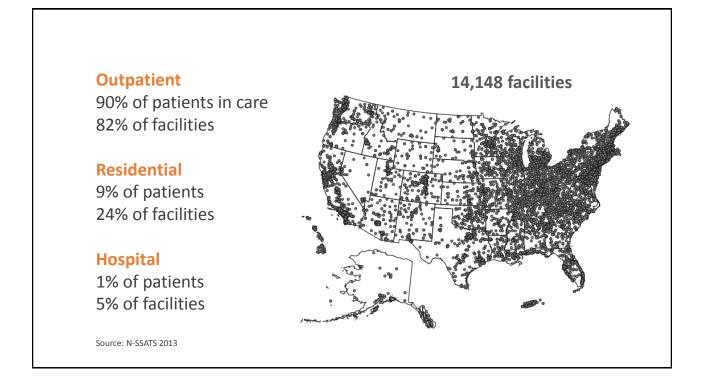


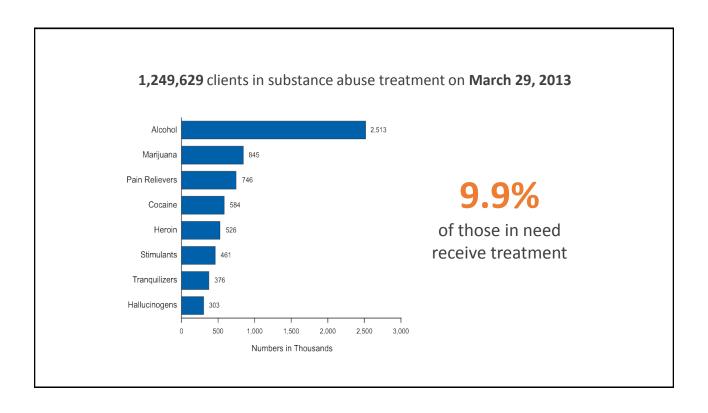
**Repeat** offenders and **chronic** drunk drivers make up about 1% of all drivers on weekend nights, but account for 50% of all fatal crashes.

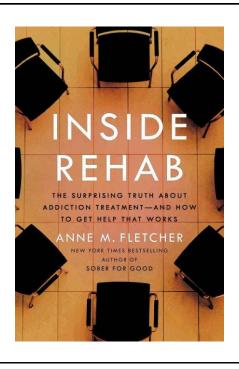
National Council on Alcoholism and Drug Dependence, 2006

# Intervention

#### **ENFORCEMENT PREVENTION ADJUDICATION** • Traffic enforcement • Sanctions: jail, diversion, • Targeted education/media fines, DISP campaigns Checkpoints Treatment Controlling access of alcohol Ignition interlock • Alternative transportation • Minor Decoy/Cops in Shops • Zero-tolerance for minors • Primary care screening/BI







- 35 billion industry
- Unlicensed and non-credentialed staff
- Turnover of staff higher than in the fast-food industry
- Short-term (< 90 days)

What is effective treatment?

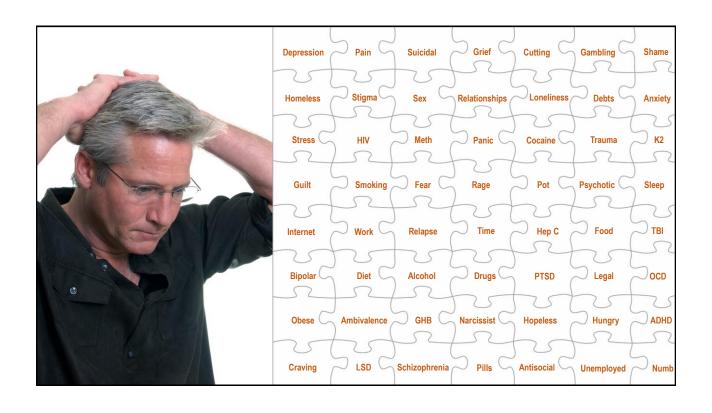
Addiction is a pathological disorder, a disease that requires expert treatment.

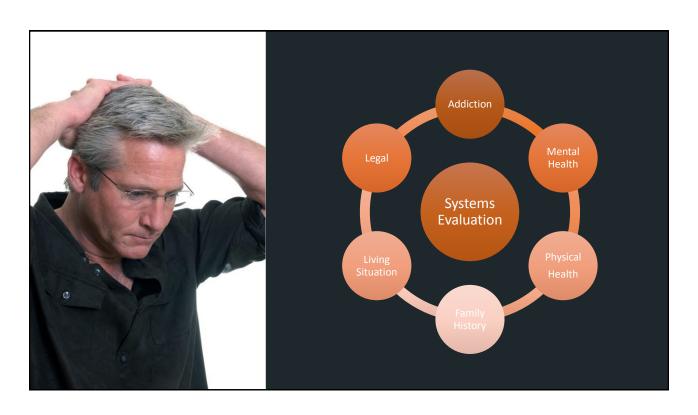
Addiction is an adaptive response to biology and trauma over time, and may benefit from expert treatment.



How motivated...

to stop doing what has allowed life to be tolerable?







# **Acute**

- Suicidal
- Homeless
- Intoxicated
- Psychoses
- Medical
- Developmental
- Legal

# **Chronic**

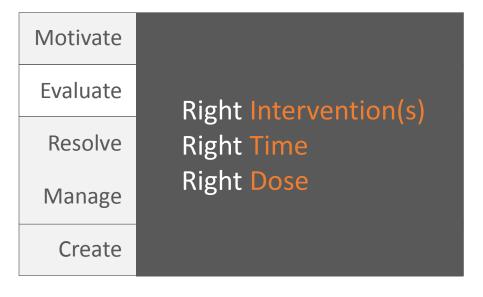
- Addiction
- ACEs
- Medical
- Stress
- Relationships
- Lifestyle (Time/\$)
- Health (Diet)



# Actions

Motivate	Motivational Interviewing Contingency Management	CRAFT Goal Setting
Evaluate	Ongoing Systems Evaluation / Outcome Measures	
Resolve	Cognitive-Behavioral Medications	Relapse Prevention Trauma Therapies (e.g. EMDR)
Manage	Developmental  Case Management	Brief Interventions  12-step Facilitation
Create	Humanistic Existential	Hope Therapy Well-being Therapy

# Actions



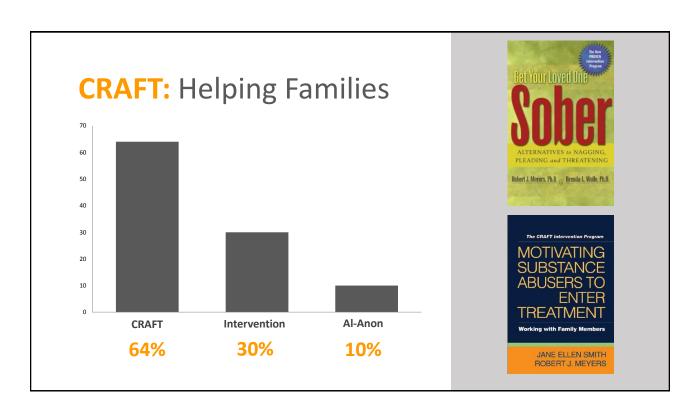


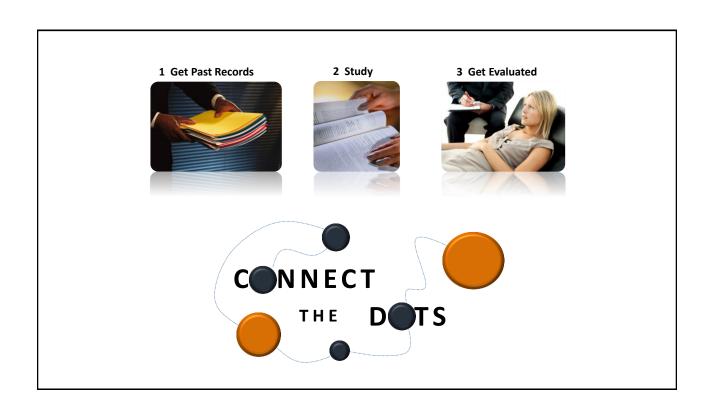
# Internal

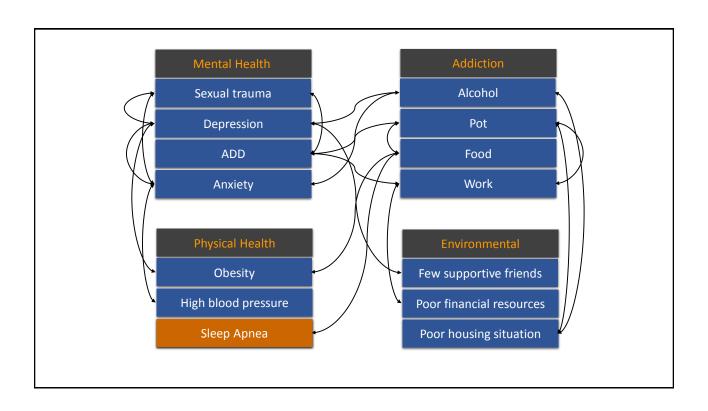
Hope Consequences Feeling

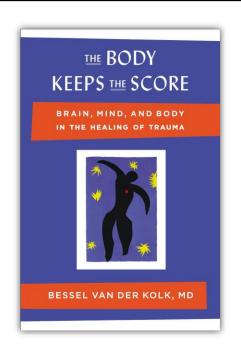
# **External**

MI Mandates CRAFT









"The challenge of [trauma] recovery is to reestablish ownership of your body and your mind."

- Find a way to be calm and focused, even during times where you are reminded of the past
- Find a way to be fully alive in the present and engaged with the people around you
- Not having to keep secrets from yourself, including secrets about the ways you have managed to survive



#### **Mindfulness Practice**

Mindfulness is not thinking, interpreting, or evaluating; it is an awareness of perception. It is a nonjudgmental quality of mind which does not anticipate the future or reflect back on the past. Any activity can be done with mindfulness.

Source: www.contemplativemind.org



#### **Mindfulness Practice**

#### Meditation

- Vipassana
- Zen
- Chakra
- Deep breathing
- Visualization
- Walking
- Sitting
- Eating
- Creative

#### Yoga

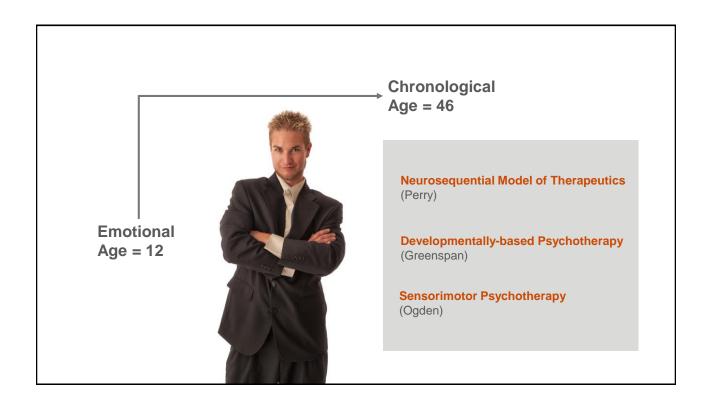
- Ananda
- Ashtanga
- Bikram
- Hatha
- lyengar
- Kripalu
- Power
- Vinyasa
- Yin

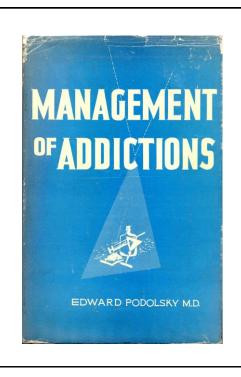
Source: www.contemplativemind.org

## **Developmental Catch-up**

Emotional Age = 12





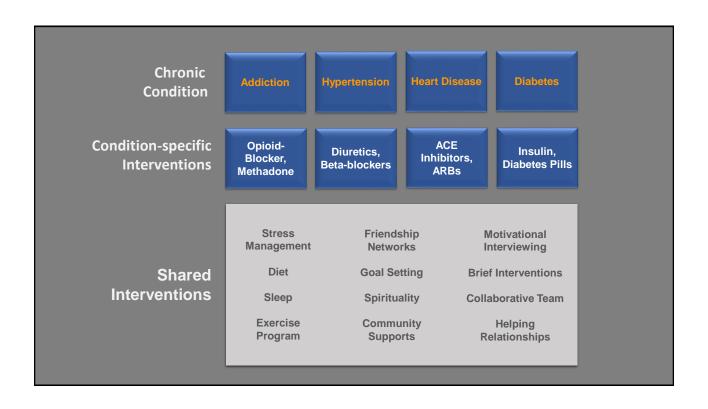


# **Three Leverage Points**

Time (outpatient vs. res)

EBP (addiction medications)

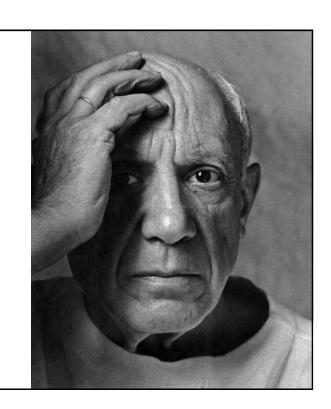
Coordinated (chronic) Services

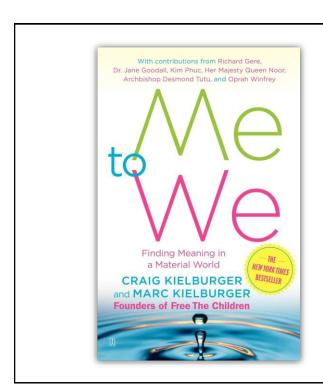




All children are artists.
The problem is how to
remain an artist once he
grows up.

Picasso





What to Create?



# Learn more at www.addictionmanagement.com

drjohnfitz@gmail.com