Drug Abuse and Addiction:

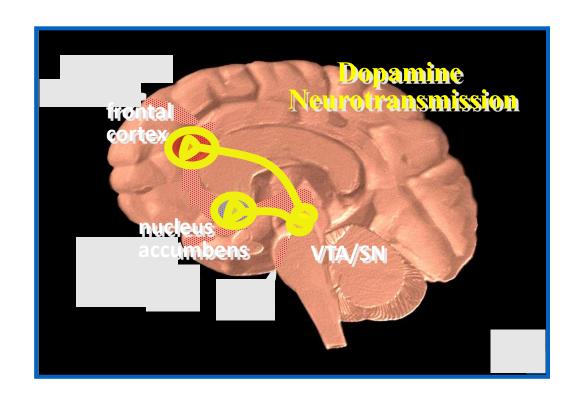
A Major Contributor to Women's Rising Mortality Rates?

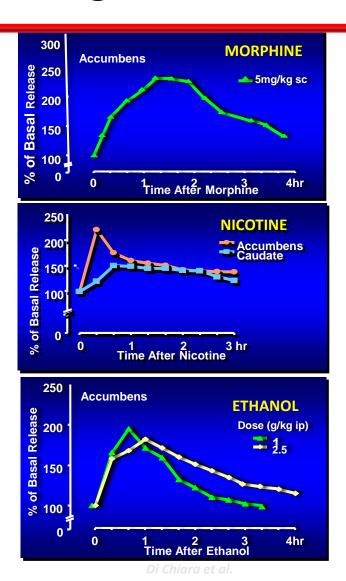




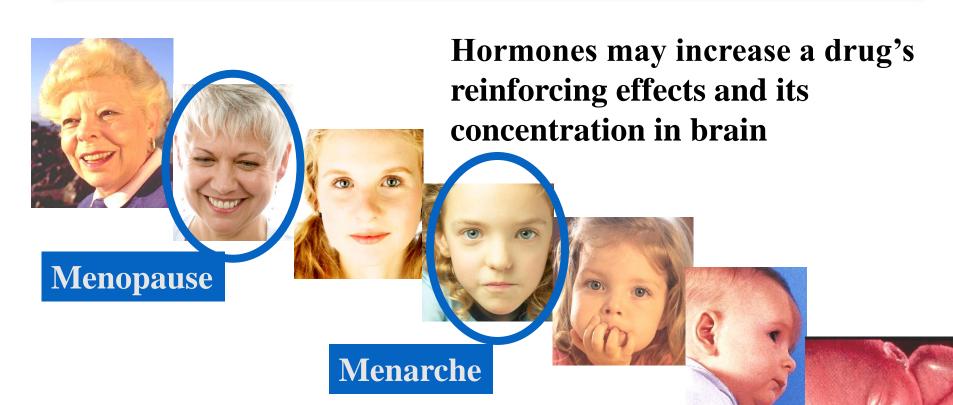
Why Do People Abuse Drugs?

All drugs of abuse (including cocaine, opiates, marijuana, nicotine and alcohol) raise brain dopamine levels



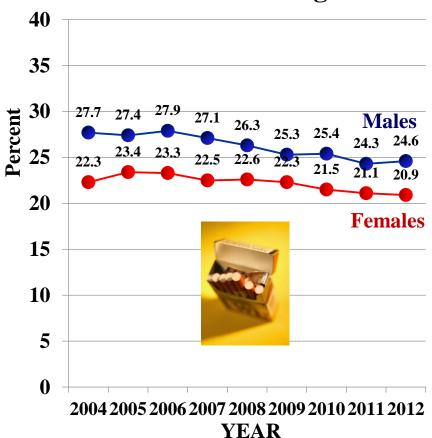


Females respond differently to drug intoxication than males and this is affected by age



Tobacco Use is the Leading Preventable Cause of Death in the U.S.

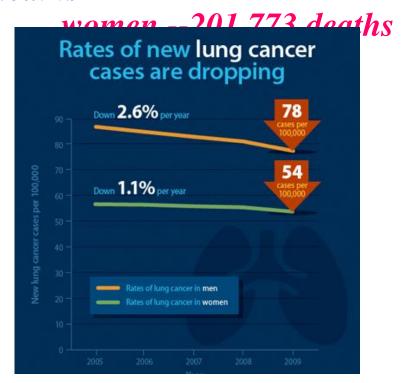




Source: SAMHSA, NSDUH, 2002-2012.

480,000 annual deaths men --278, 544

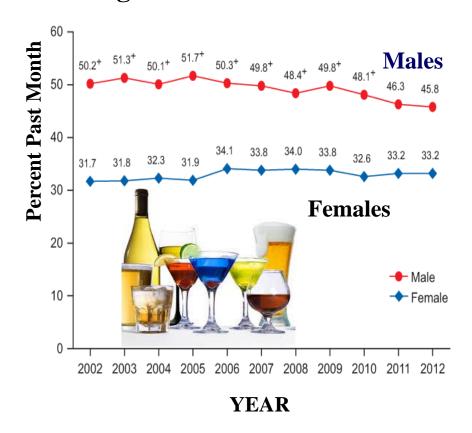
deaths



Source: CDC Fact Sheet Tobacco Related Mortality.

Excessive Alcohol Use is the Fourth Leading Preventable Cause of Death in the U.S.

Binge Alcohol Use 18-25 Years



Source: SAMHSA, NSDUH, 2002-2012.

88,000 annual deaths

men -62,000 deaths

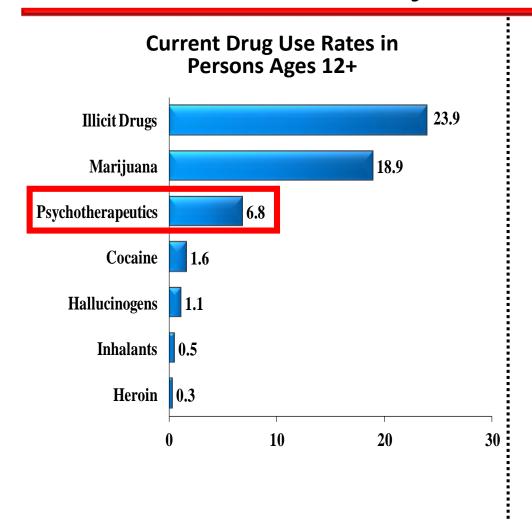
women -26,000 deaths

ACUTE			Males
	Females		
FALLS			3853
	<i>3688</i>		
CAR ACCIDENTS	9764		2696
POISONING		5457	
2947			

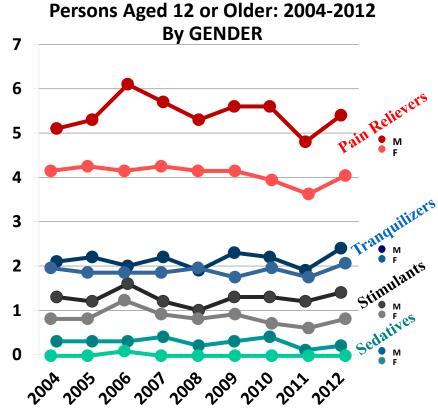
CHRONIC

LIVER DISEASE 10403 3961 CIRROSIS CDC Alcohol and Public Heath? Alcohol-Related B255ase Impact (ARDI) CANGER*table

Prescription Drug Misuse/Abuse Is A Major Problem in the US



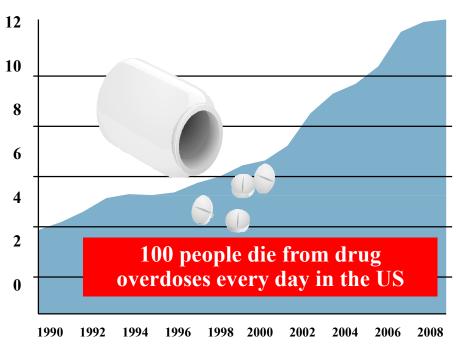
Past Year Nonmedical Use of Types of Psychotherapeutic Drugs among



Source: SAMHSA, 2012 National Survey on Drug Use and Health, 2013.

Drug OD in the US Have More Than *Tripled* since 1990 and INCREASES Are Greater for Women (Five-FOLD)

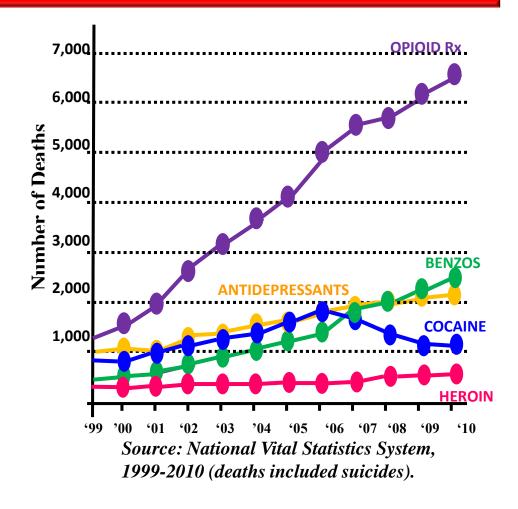
Prescription OPIOID OD Deaths Among Women



National Vital Statistics System. Drug Overdose Death Rates by State 2008.

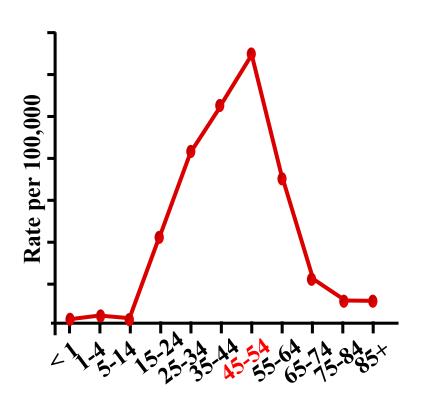
*Deaths are those for which poisoning by drugs (illicit, prescription, and over-the-counter) was the underlying cause.

CDC Vital Signs, July 2013.

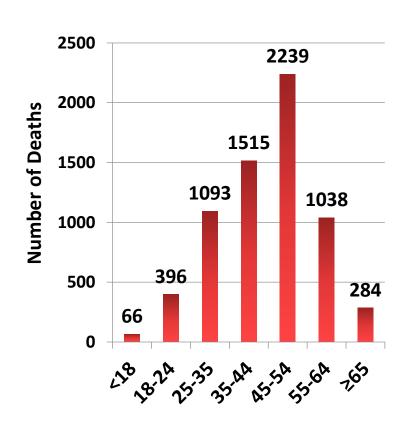


Opioids Overdose Death by Age Group, US, 2008

Rx Opioid OD Deaths Are Greatest Among Women 45-54 years, 2010

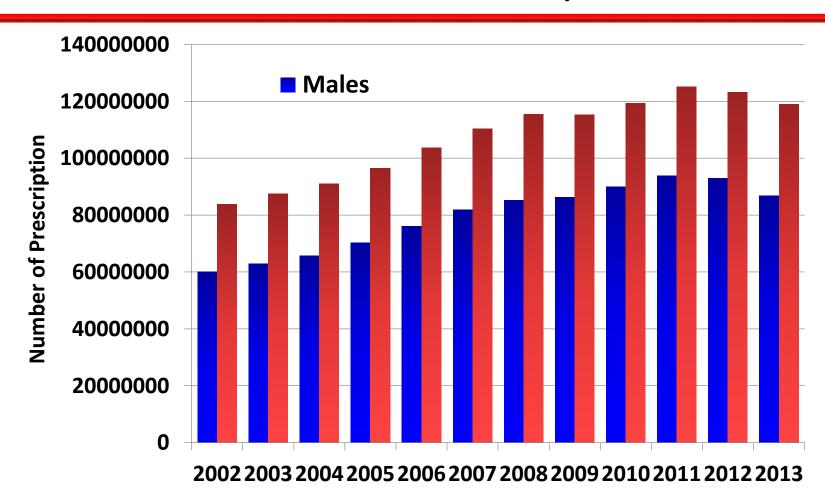


Paulozzi LJ, J Safety Res 2012; 43(4): 283-289.



Source: CDC Vital Signs July 2013.

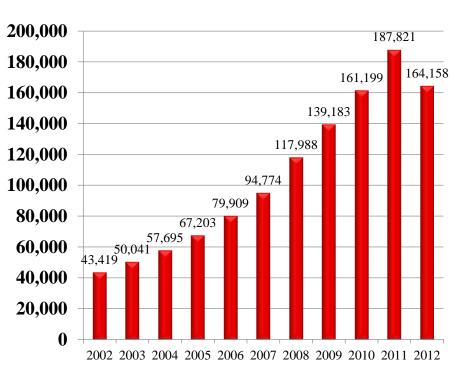
Number of Opioid Prescriptions from U.S. Retail Pharmacies, 2002-2013

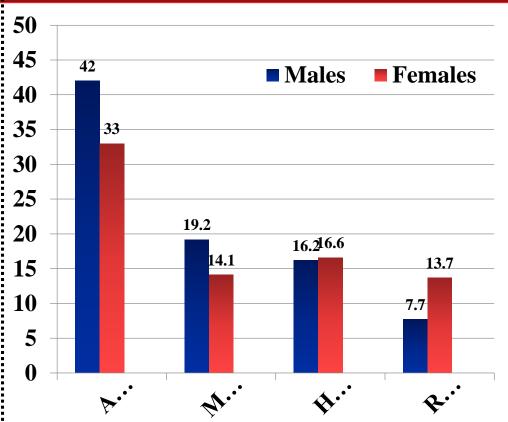


Source: IMS Health, National Prescription Audit

More Than 4-Fold Increase In Treatment Admissions For Prescription Painkillers In the Past Decade

SUD TX Admissions Aged 12 Or Older, 2012

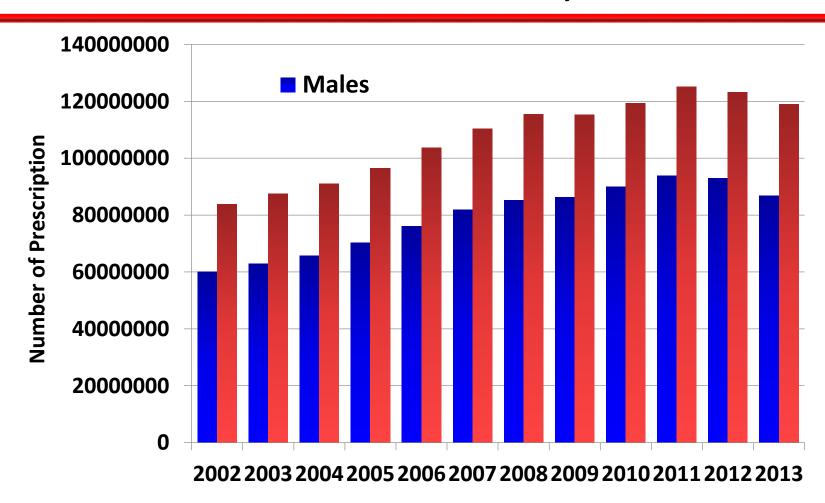




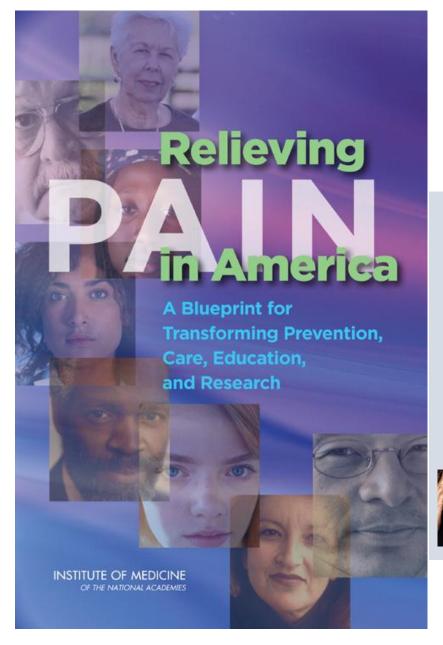
Source: SAMHSA Treatment Episode Data Set (TEDS), 2002-2012

Note: percentages may not sum to 100 % due to rounding. Source: SAMHSA, TEDS, 2012.

Number of Opioid Prescriptions from U.S. Retail Pharmacies, 2002-2013



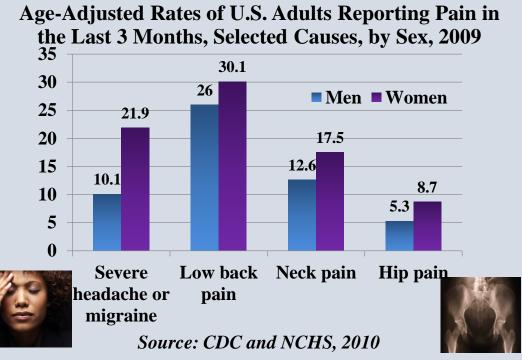
Source: IMS Health, National Prescription Audit



Recommendations included...

Addressing disparities in the experience of pain among subgroups of Americans

 Women appeared to suffer more pain in many categories



• Women's reports of pain were more likely to be dismissed

The Prescription Painkiller Problem Affects Women In Different Ways Than Men

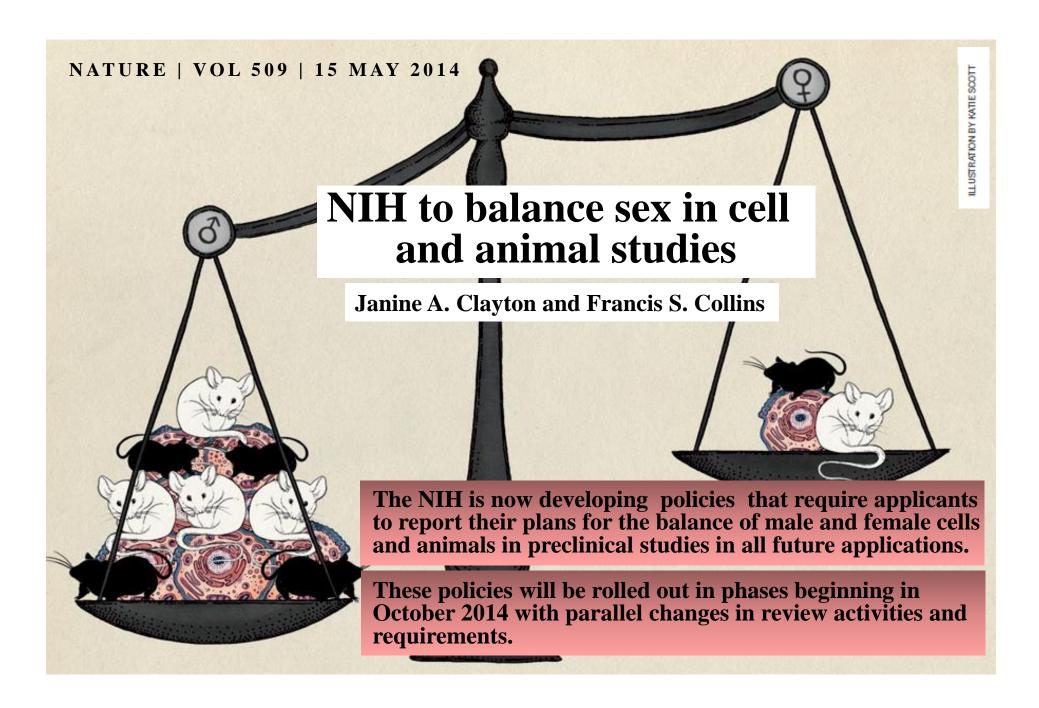
 Women are more likely to have chronic pain, be prescribed prescription painkillers, be given higher doses, and use them for longer time periods than men



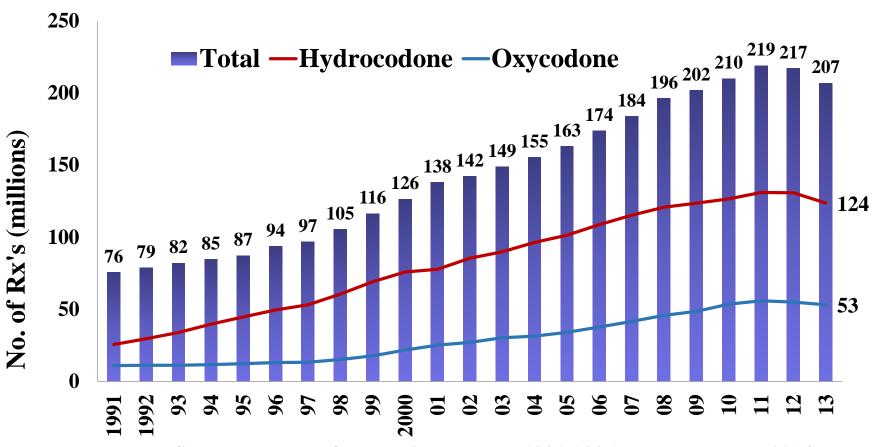
 Women may become dependent on prescription painkillers more quickly than men



Source: CDC Vital Signs July 2013.



Number of Opioid Prescriptions Dispensed by U.S. Retail Pharmacies, Years 1991-2013



IMS Health, Vector One: National, Years 1991-1996, Data Extracted 2014 IMS Health, National Prescription Audit, Years 1997-2013, Data Extracted 2014

Drugs Abuse During Pregnancy...



- Affects prenatal and postnatal growth
- Increases the risk of developmental and behavioral deficits

