

### Prevention and the 18-25 year old population Mark A. Levine, MD – Commissioner





Though adolescence may be the most vulnerable time for addiction, 18-25 year olds still technically have "developing brains". Take Home Message #2

□ The brain chemistry is no different

# Opioid Use Disorder = A Disease of the Brain

- Humans have brain systems that motivate us to seek out pleasure, avoid distress, and learn behaviors that help us do these things.
- 2. Addictive substances hijack these basic systems by activating them more powerfully than natural experiences.
- 3. Addiction involves long-term changes in the brain that decrease pleasure, increase distress, and impair decision-making.
- 4. Adolescent and young adult brains have enhanced susceptibility.

# Opioid Use Disorder = A Disease of the Brain



Attention, thinking, and judgment use the prefrontal cortex

Volkow et al 2016 Wise and Koob 2014 Keep in mind, 18-25 year olds didn't just start down the pathway to SUD when they turned 18.

#### Hub & Spoke Evaluation: Participants

# TYPICAL SUBSTANCE USE HISTORY OF PARTICIPANTS



# What I am worried about with 18-25 year olds

- Those not in college who is concerned about them? Who notices them?
- Until primary prevention really takes off, many will not have benefited from the prevention we are focused on from birth->grade school-> high school. They will be a vulnerable population for many years.