



Emerging Drug Trends

William Eggleston, PharmD, DABAT

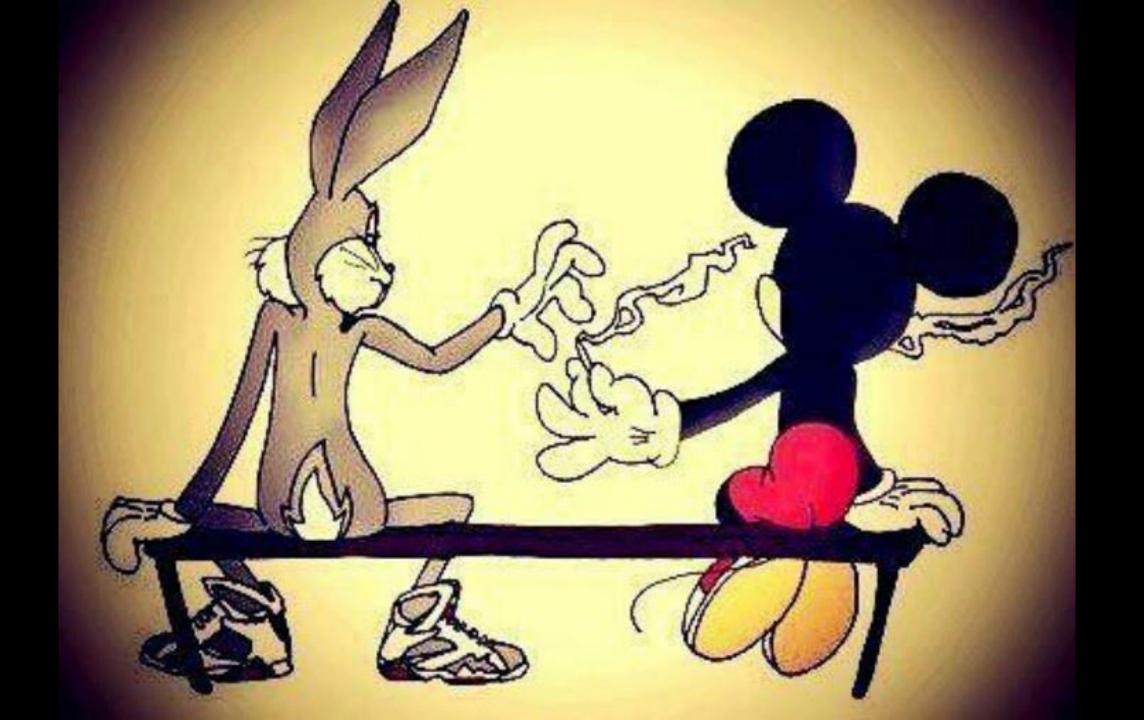
No conflicts of interest to disclose.

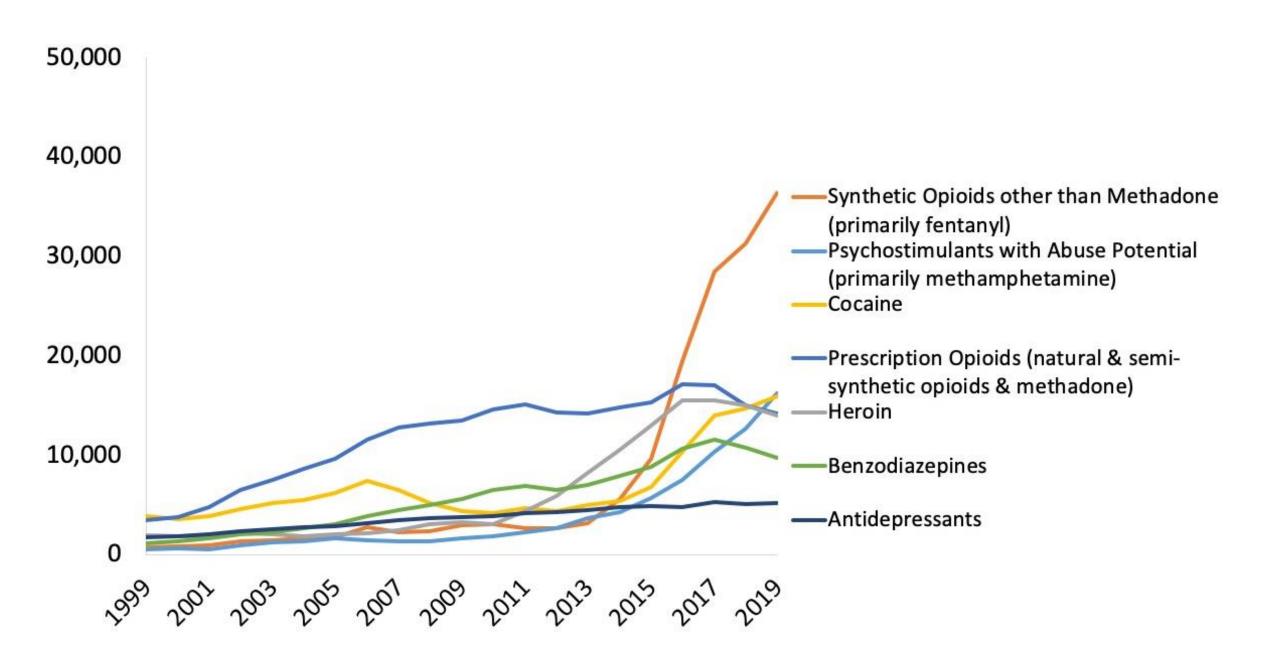
Objectives

Identify common characteristics of emerging synthetic and substitute drugs.

Discuss the toxicities associated with kratom, phenibut, and marijuana use.

Develop a treatment and monitoring plan for a patient presenting with kratom, phenibut, or marijuana toxicity.











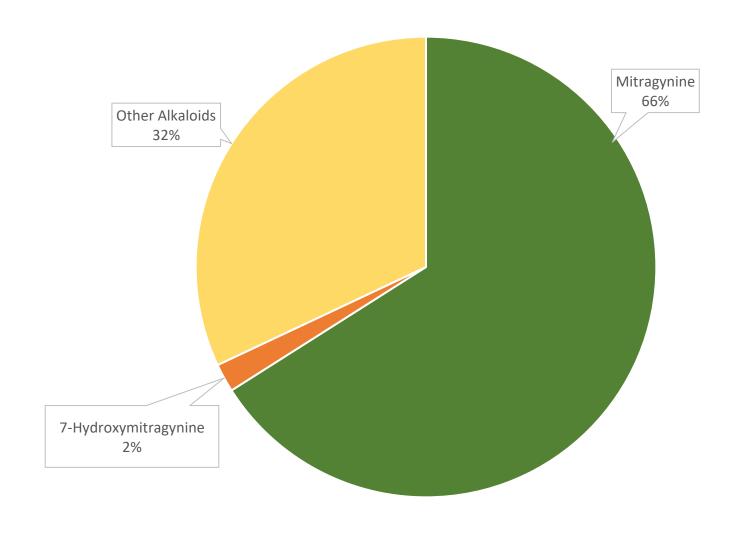


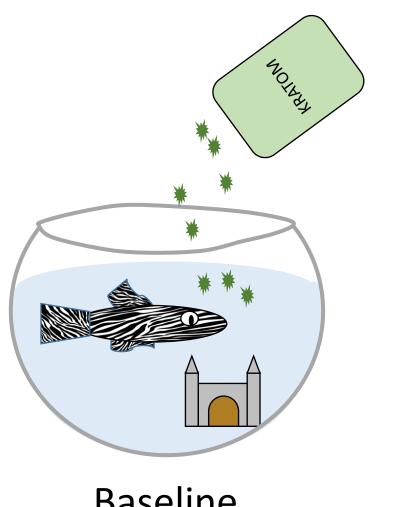


Kratom



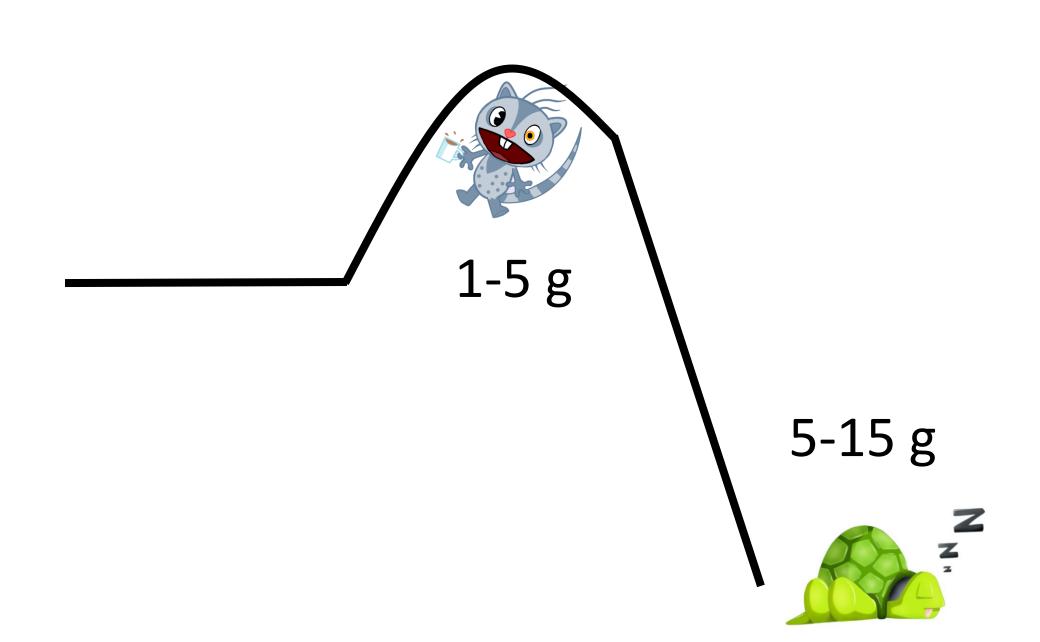
Alkaloids



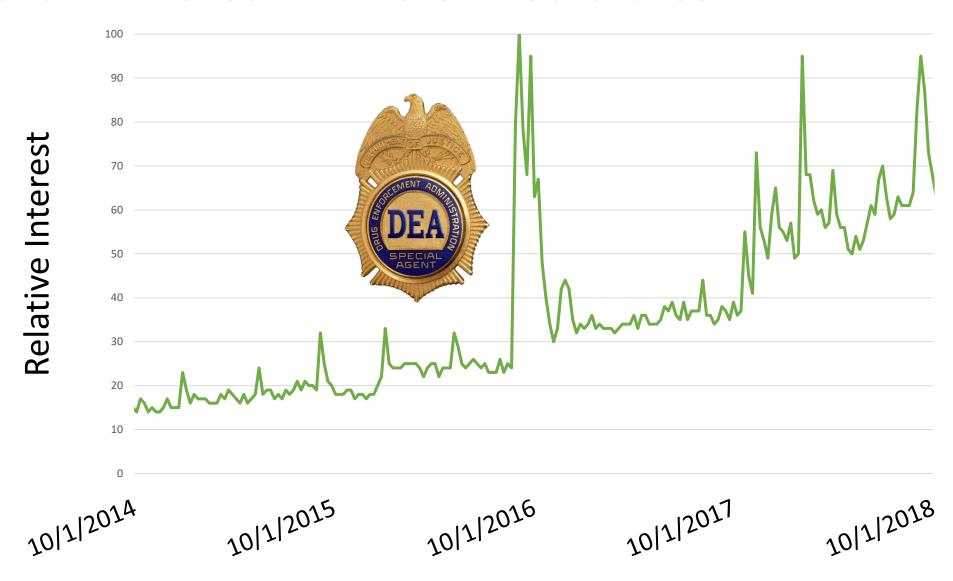


Baseline

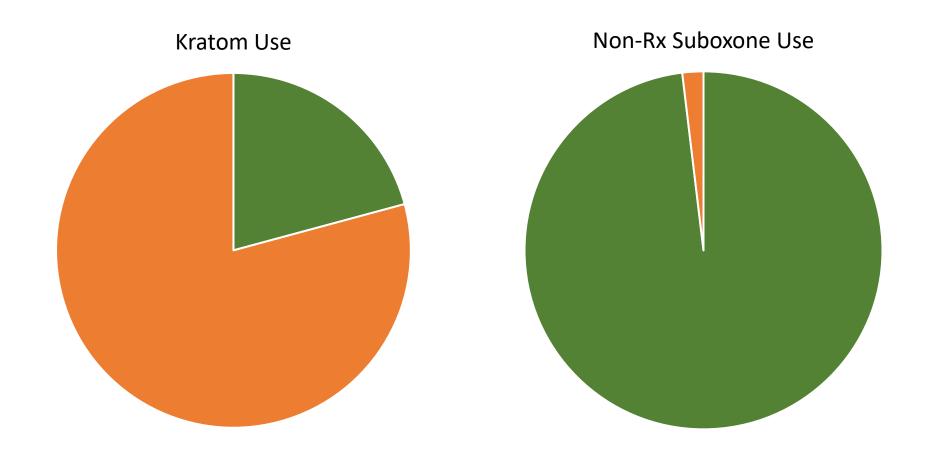




Kratom Interest in the United States



Substance Use Disorder





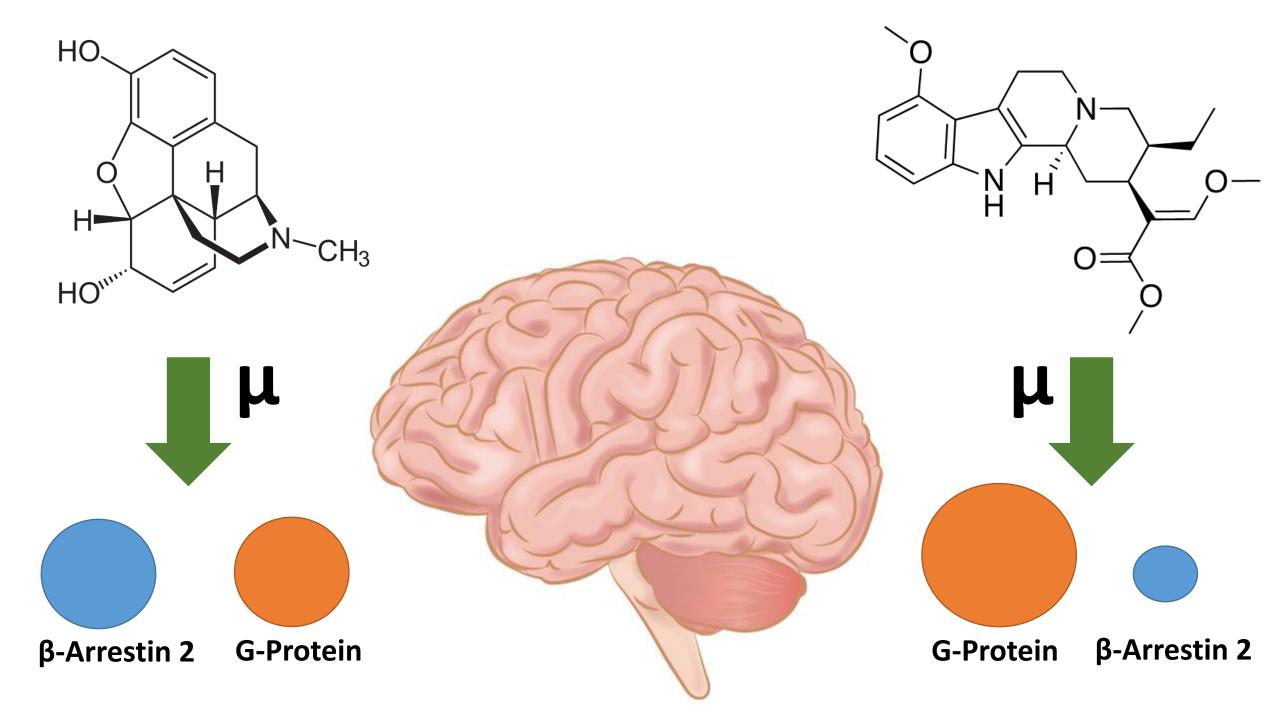
NAS
Dependence/SUD
Withdrawal
CNS Depression

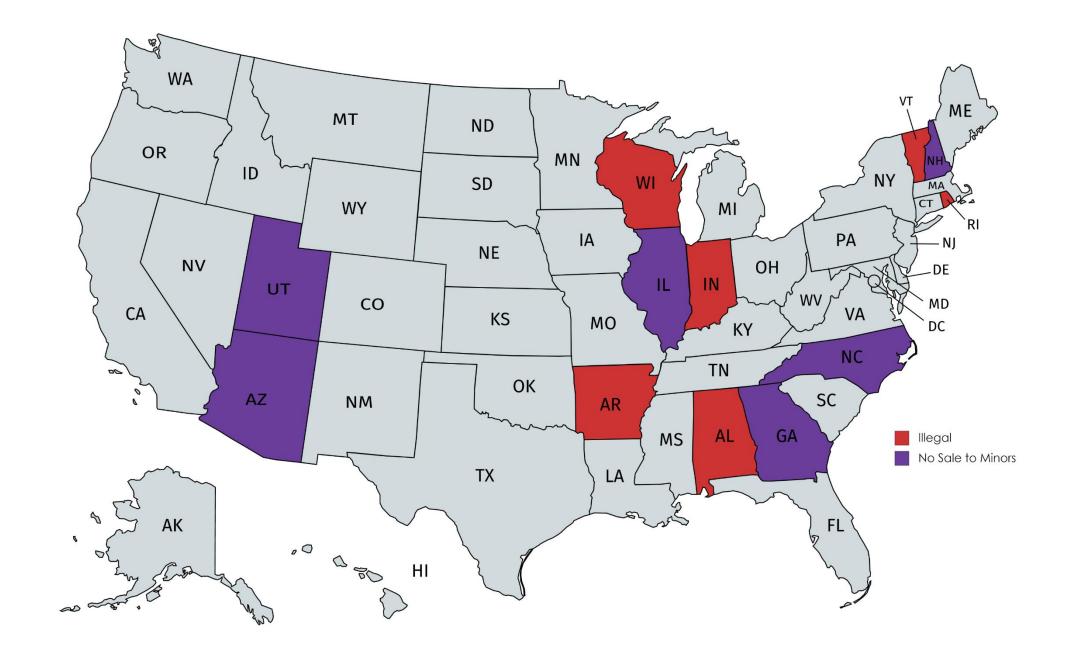


Seizures
Hallucinations
Tachycardia/Agitation
Hepatotoxicity









New York Reaches a Deal to Legalize Recreational Marijuana

The move paves the way for a potential \$4.2 billion industry, with millions of dollars in sales tax revenue reinvested in minority communities each year.







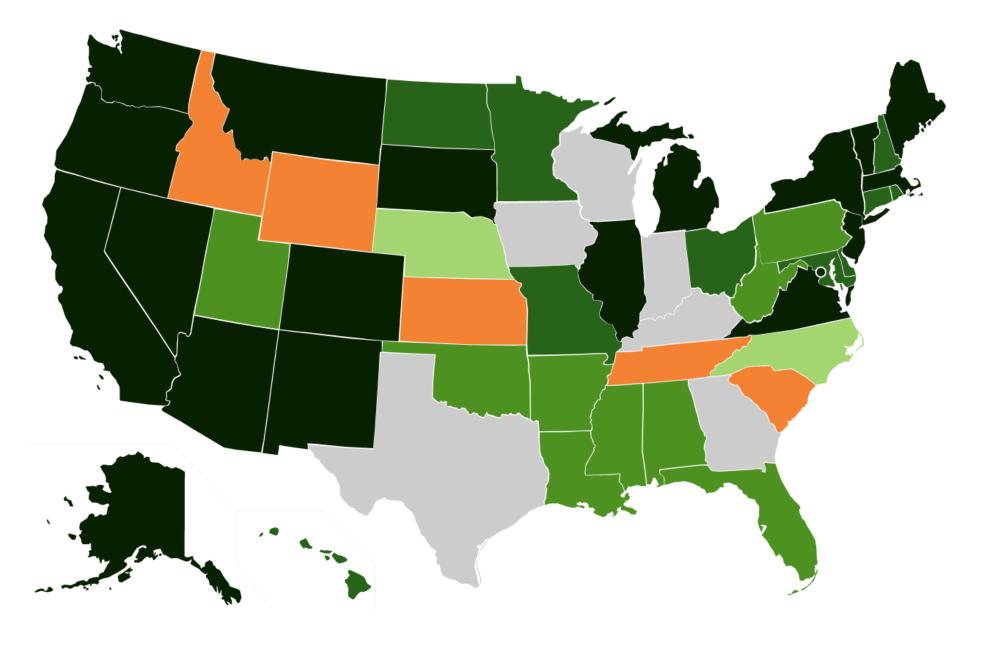








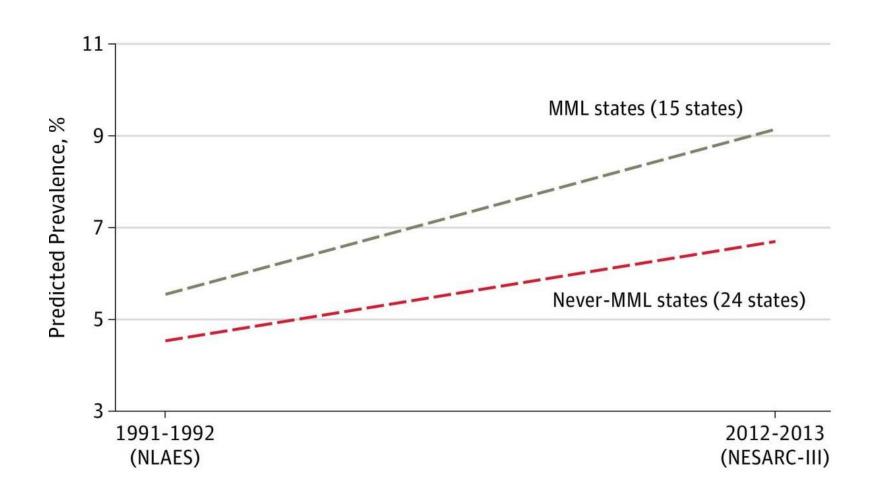






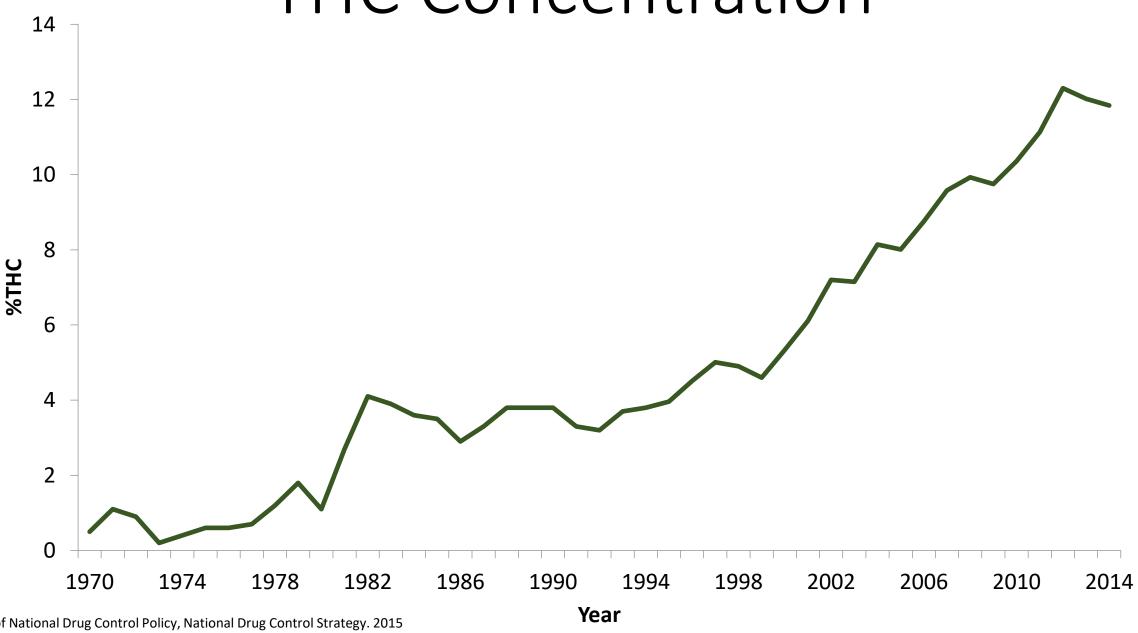


Marijuana Use Prevalence



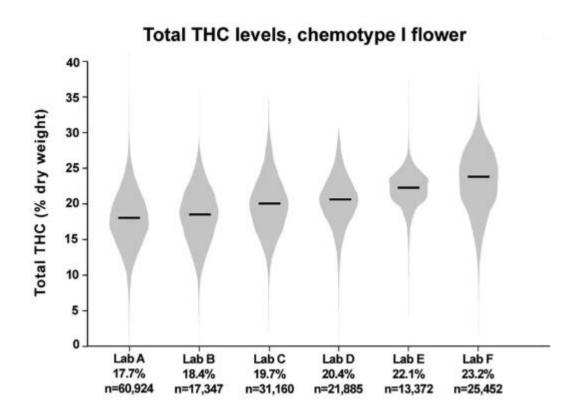


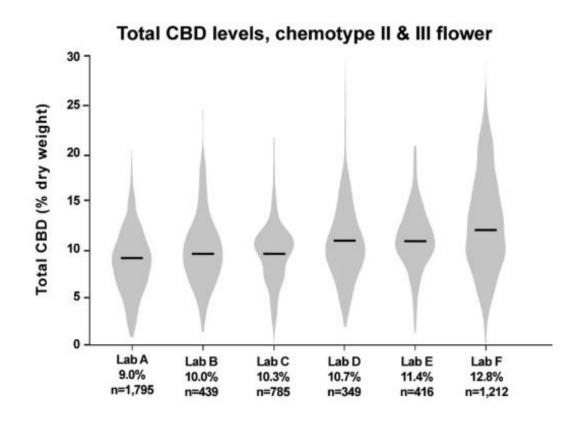
THC Concentration



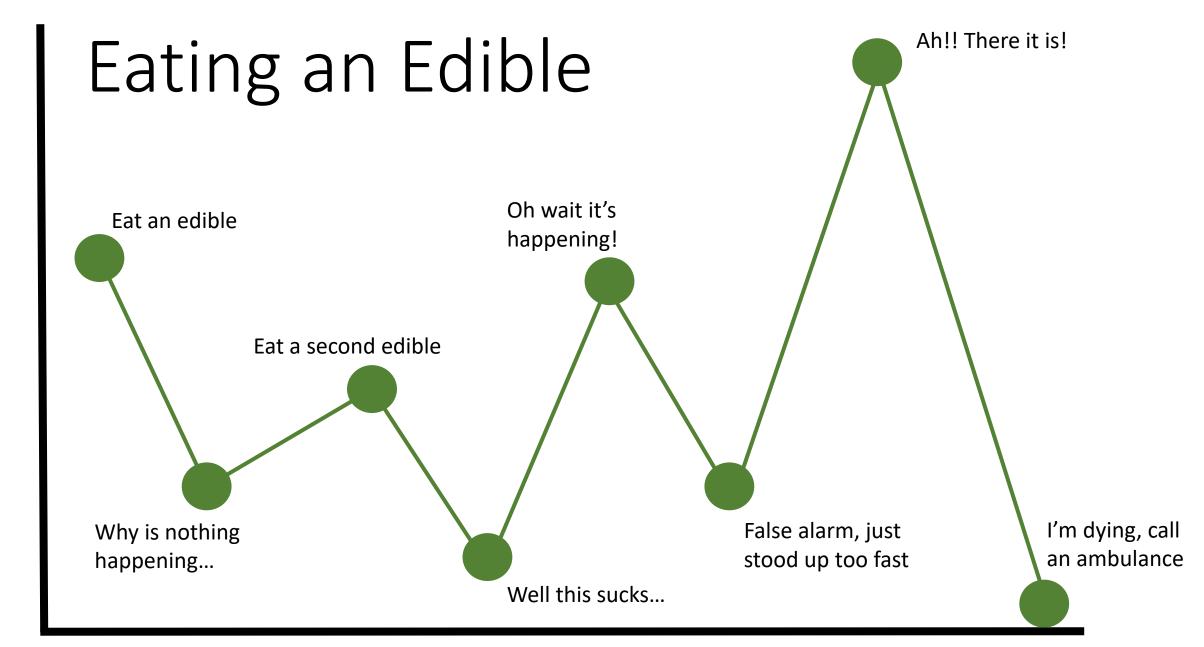
Office of National Drug Control Policy, National Drug Control Strategy. 2015 Sevingy EL. *Drug Test Anal*. 2013; 5(1):62-7

THC Concentration





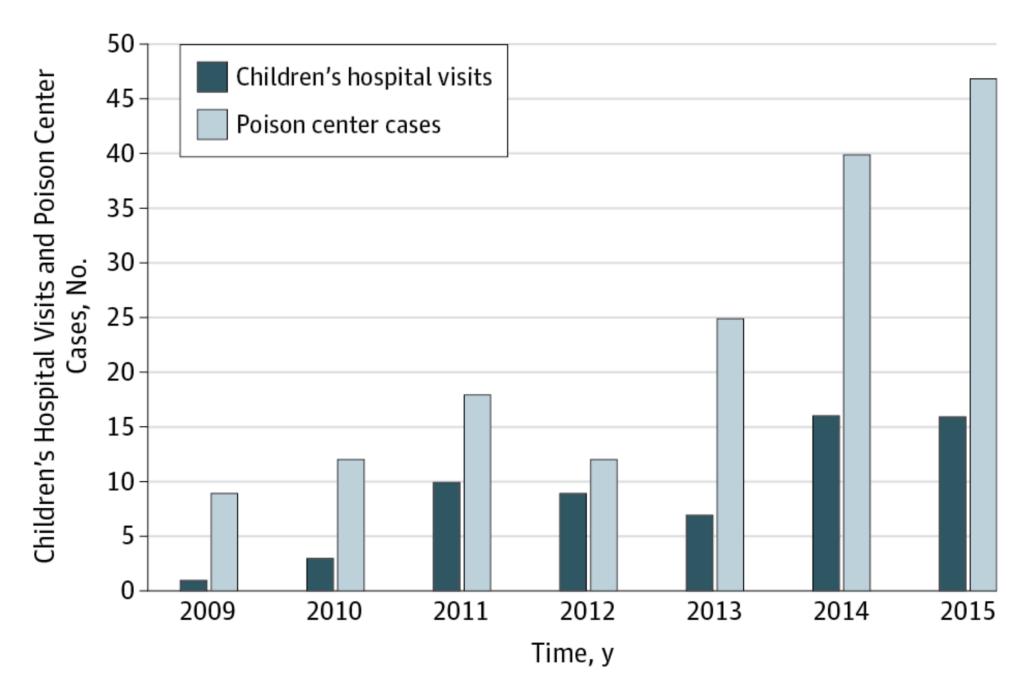


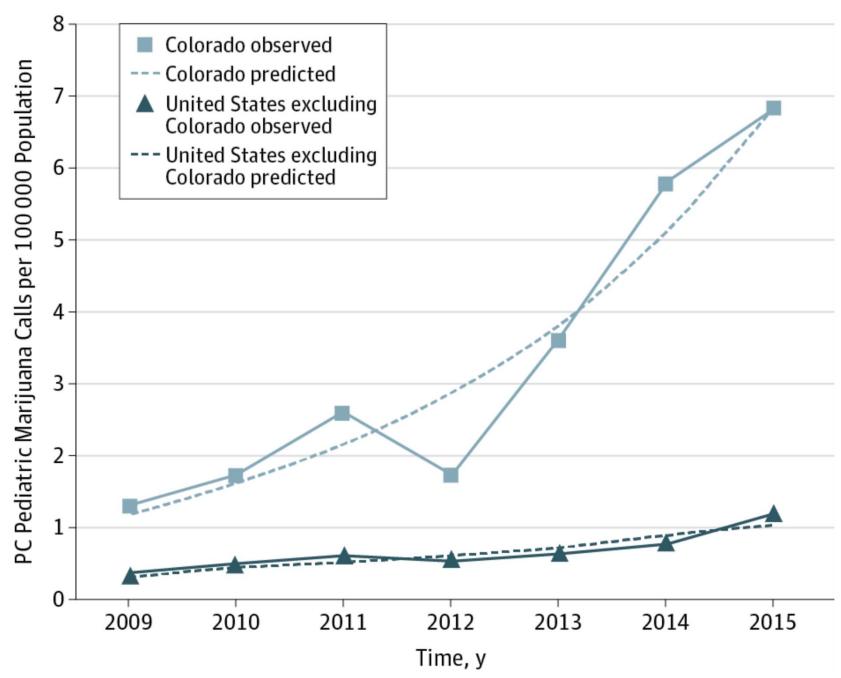


Time

Joy



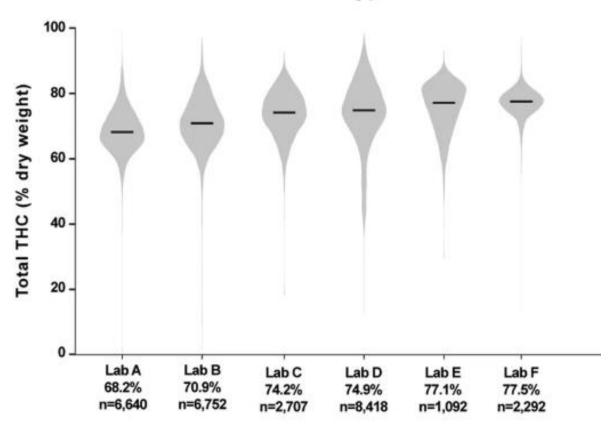






THC Concentrates







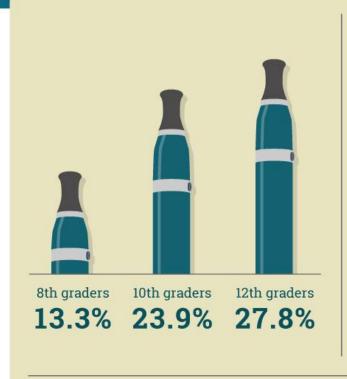


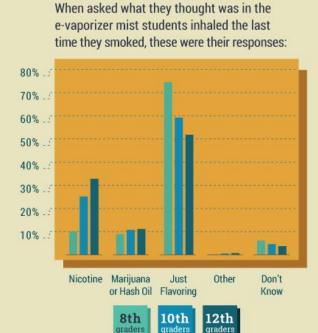






PAST-YEAR E-VAPORIZER USE AND WHAT TEENS ARE INHALING





NEARLY 1 IN 3 STUDENTS IN 12TH GRADE REPORT PAST-YEAR USE OF E-VAPORIZERS, RAISING CONCERNS ABOUT THE IMPACT ON THEIR LONG-TERM HEALTH.





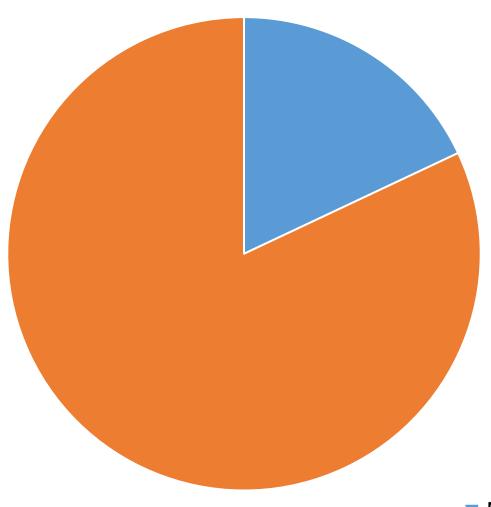
DRUGABUSE.GOV

The Mysterious Vaping Illness That's 'Becoming an Epidemic'

A surge of severe lung ailments has baffled doctors and public health experts.

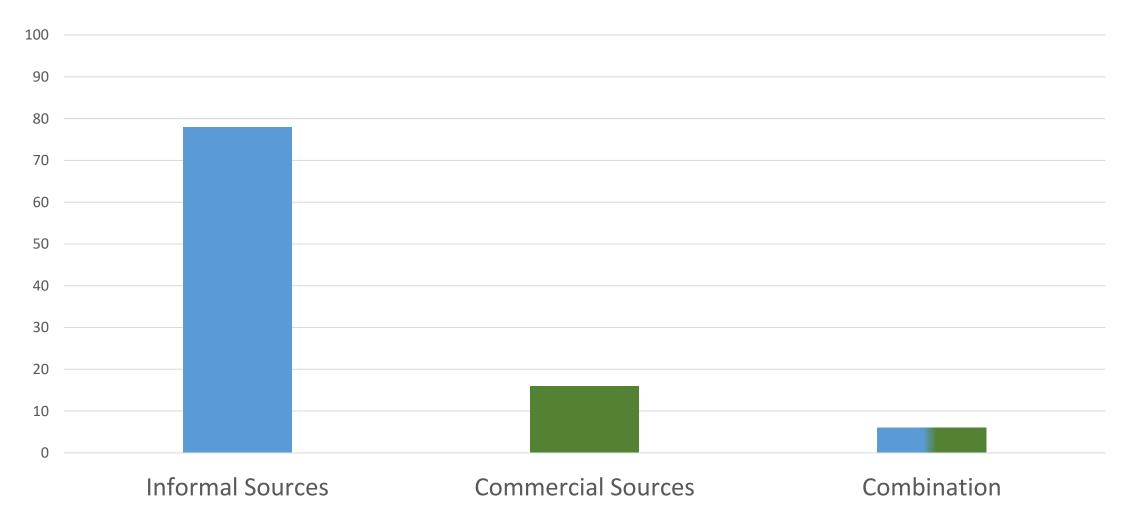


EVALI Cases



■ No THC Products ■ THC Products

Vape Products



Priority Toxicants

Toxicant	EVALI Case	Non-Use	E-Cigarette Use	Cigarette Use
Vitamin E acetate	48/51	0/52	0/18	0/29
Medium chain TGs	0/49	0/34	0/11	0/18
Coconut oil	1/48	0/34	0/11	0/18
Plant oil	0/49	0/34	0/11	0/17
Squalene/Squalane	0/38	0/52	0/17	0/29
α-pinene/β-pinene	0/39	0/52	0/17	0/28
3-careen	0/39	0/52	0/17	0/28
Limonene	1/39	0/52	0/17	0/28
Petroleum distillates	0/12	0/52	0/17	0/29

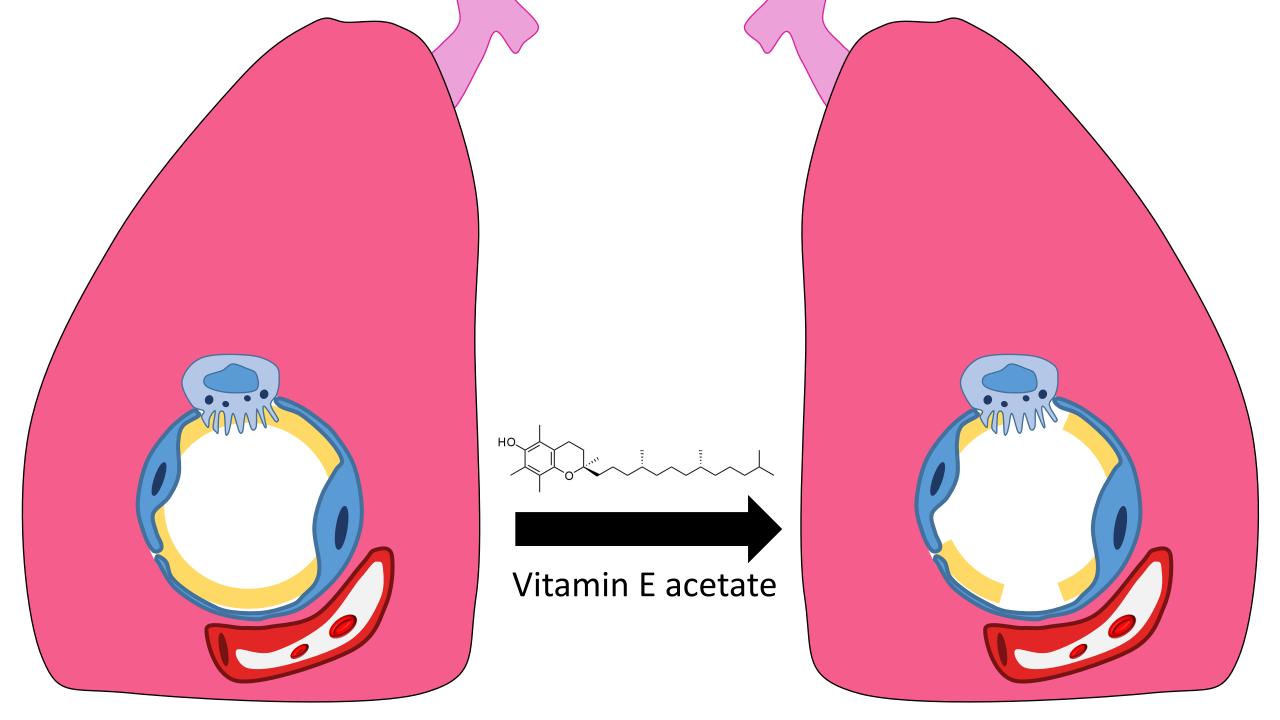
Why is it in THC Vapes?

closely resembles pure THC oil

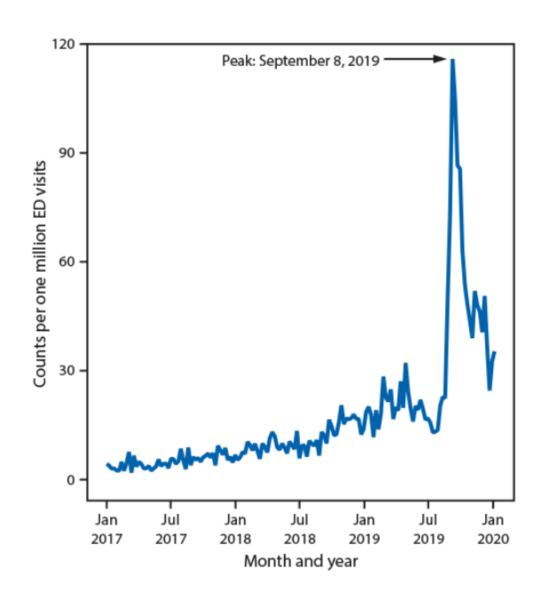
a thickener used to "cut" illicit THC vape cartridges

thin, colorless oil is a red flag for consumers





ED Visits

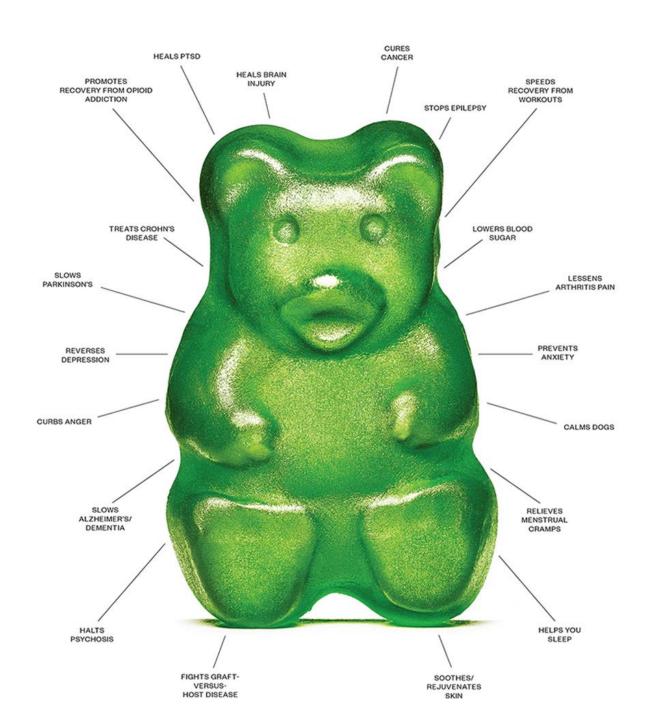


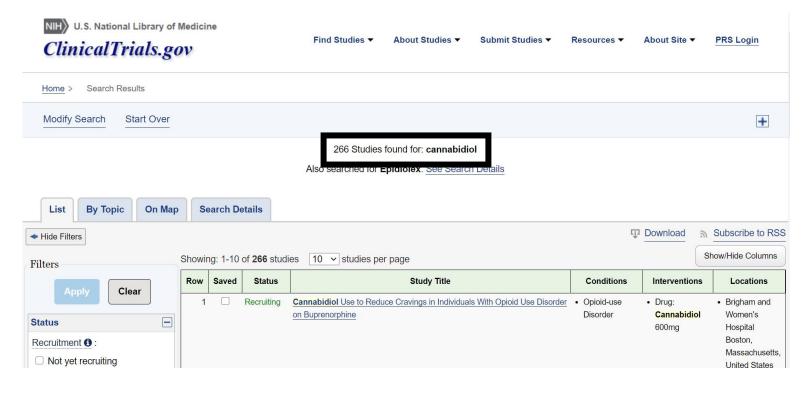


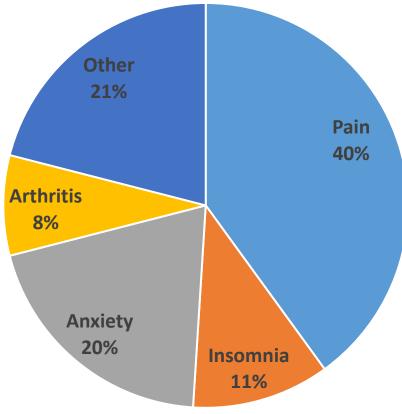






















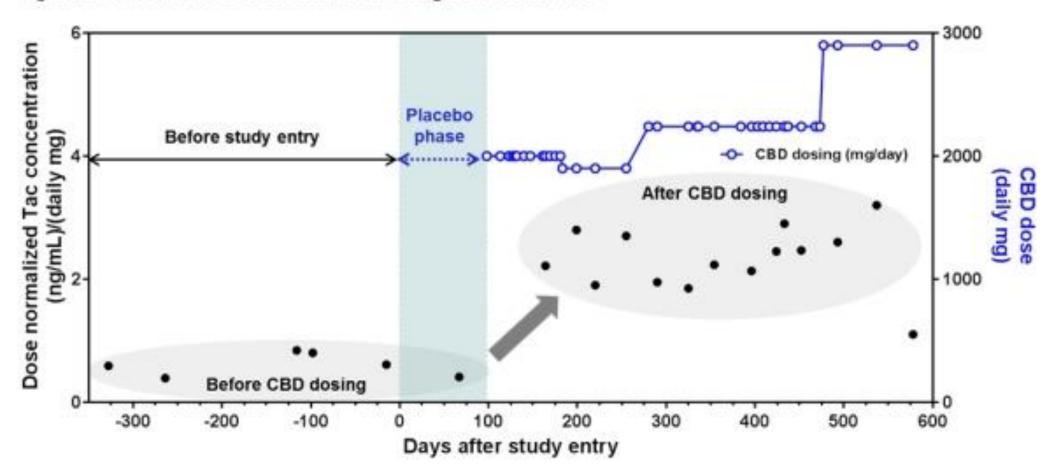
- Home / News & Events / FDA Newsroom / Press Announcements / FDA warns 15 companies for illegally selling various products containing cannabidiol as agency details safety concerns

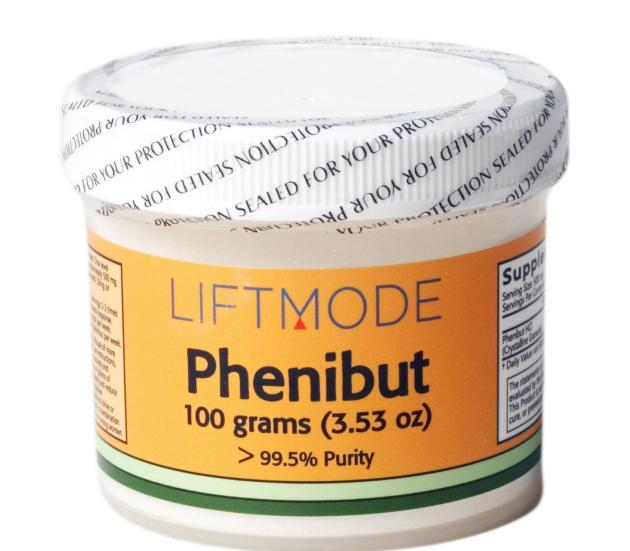
FDA NEWS RELEASE

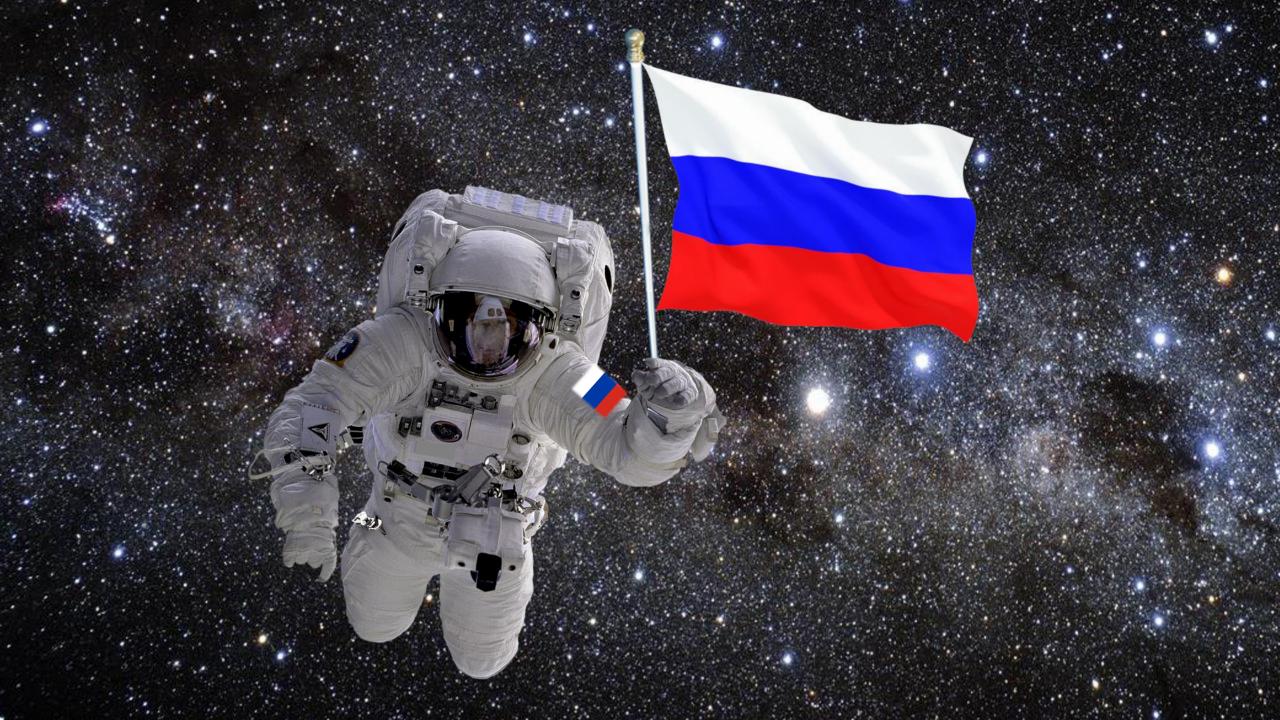
FDA warns 15 companies for illegally selling various products containing cannabidiol as agency details safety concerns

Violations include marketing unapproved new human and animal drugs, selling CBD products as dietary supplements, and adding CBD to human, animal foods

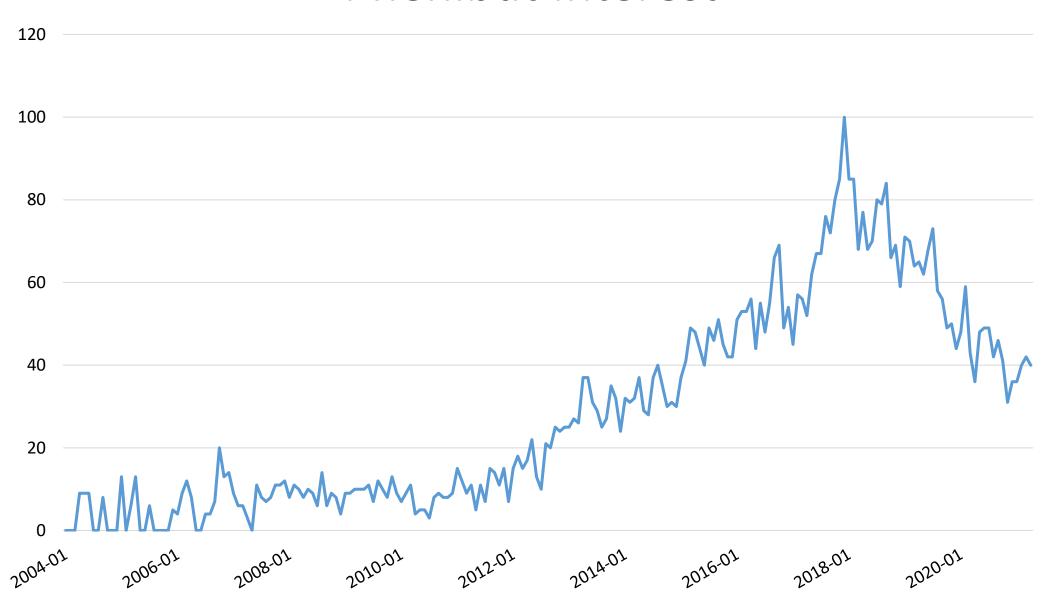
Figure 2: Tacrolimus Dose Normalized Trough Concentration

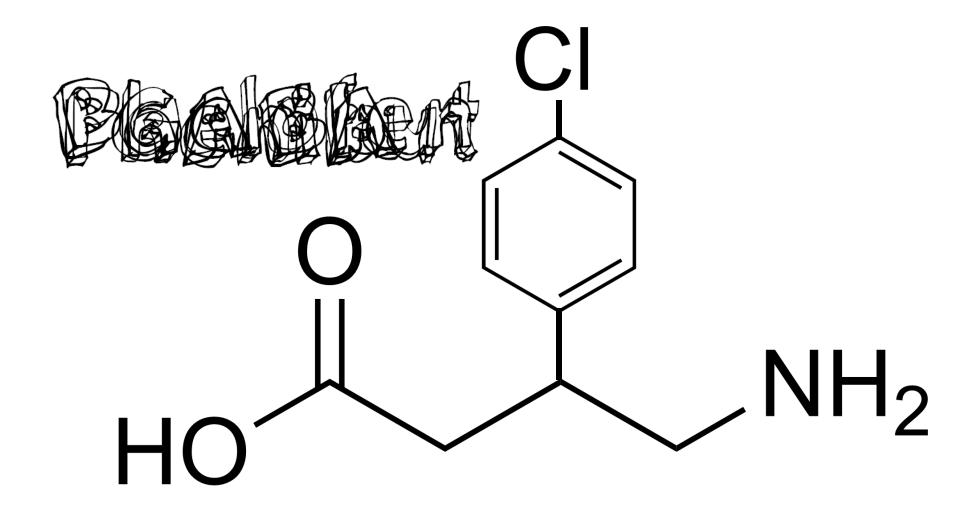






Phenibut Interest













1-800-222-1222

