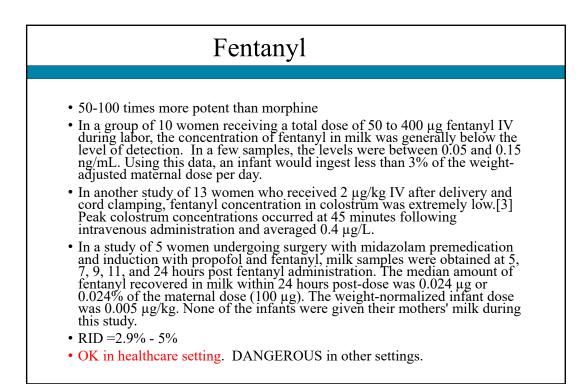
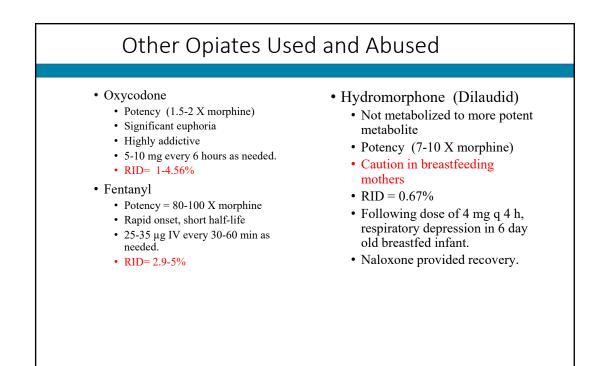
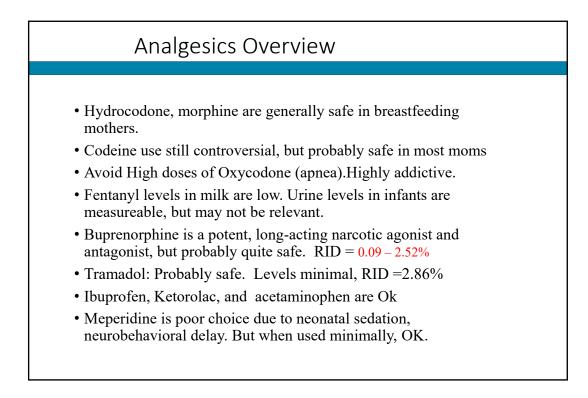
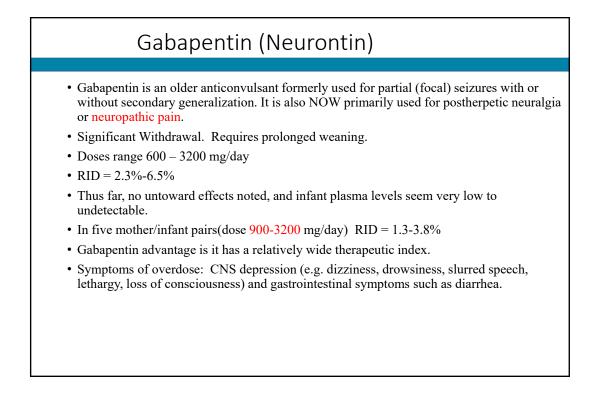


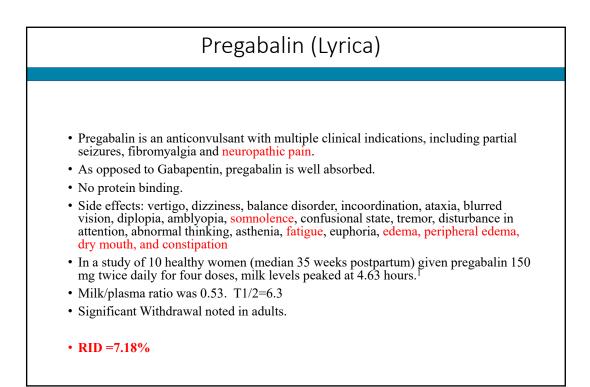
Hydrocodone
 Hydrocodone Potency (1.5-2 X morphine) 30 fold less active than its active metabolite Hydromorphone. Subject to rapid metabolism, but still good choice. The total dosage to infants was estimated at 0.7% of their neonatal therapeutic dose, suggesting that standard maternal doses are clinically irrelevant to the infant.
• Hydrocodone is still generally recommended that for treatment of postpartum pain, and doses should be limited to no more than 30 mg/day. If higher doses are required, then the infant should be closely monitored for possible untoward complications such as sedation and apnea. Doses more than 40 mg/day should be avoided. ⁸
• RID= 2.21% - 3.7%
1. Sauberan JB, Anderson PO, Lane JR, et al. Breast milk hydrocodone and hydromorphone levels in mothers using hydrocodone for postpartum pain. <i>Obstet Gynecol</i> . 2011 Mar;117(3):611-617.

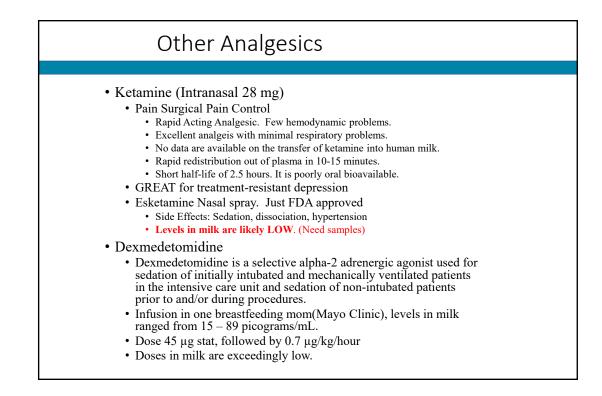


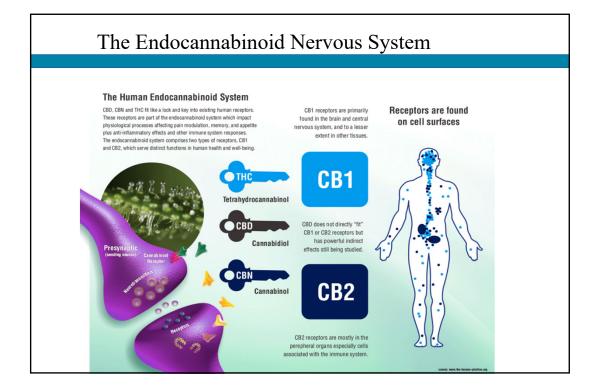


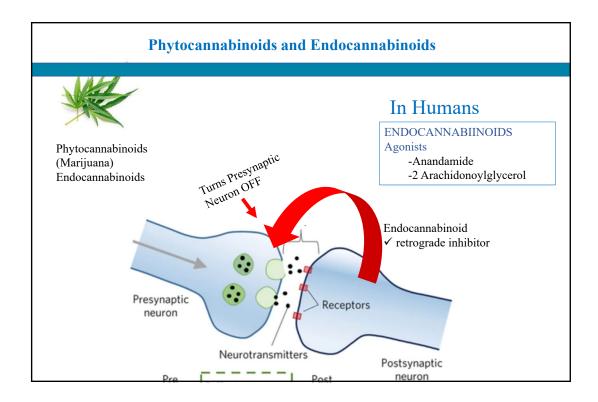










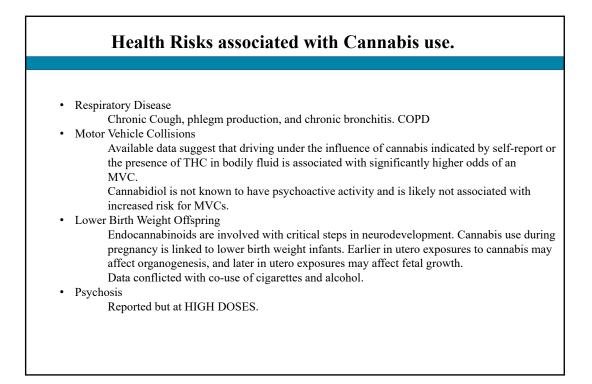


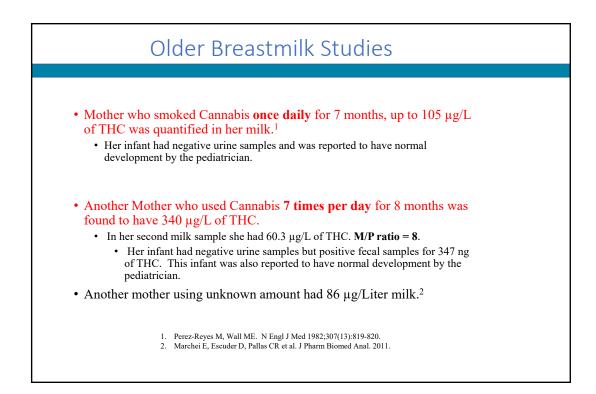
Role of the endocannabinoid system

The role of the endocannabinoid system (ECS) in the human brain is to influence synaptic communication between neurons and also to control other processes such as eating, anxiety, pain control, learning and memory, reproduction, metabolism, growth, and development.

The ECS also has a role in weight gain, by inducing lipogenesis and increasing insulin resistance. One of the other roles of the ECS is to reduce both neuropathic and inflammatory pain.

 Anorexia Nausea/vomiting Neuropathic pain Inflammation Multiple sclerosis Neurodegenerative disorders (Parkinson's disease, Huntington's disease, Tourette's syndrome, Alzheimer's disease) 	 Epilepsy Glaucoma Osteoporosis Schizophrenia Cardiovascular disorders Symptoms of Cancer Metabolic syndrome- related disorders 	

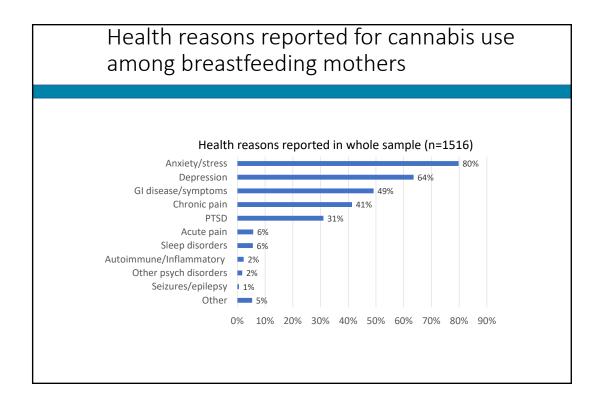


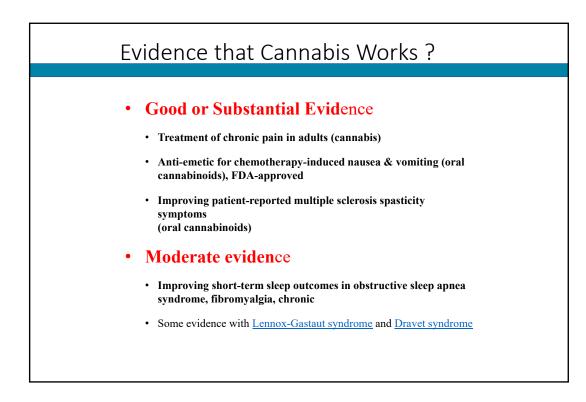


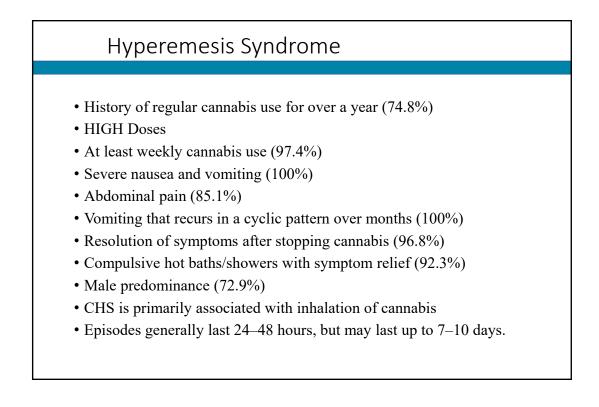
Cannabis Use During the Perinatal Period in a State With Legalized Recreational and Medical Marijuana: The Association Between Maternal Characteristics, Breastfeeding Patterns, and Neonatal Outcomes.

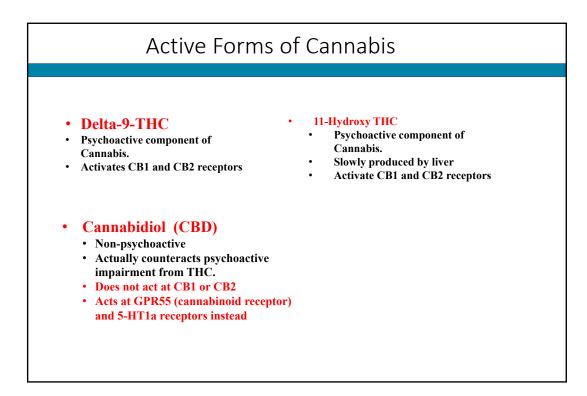
- 3,207 respondents from the 2014-2015 Colorado Pregnancy Risk Assessment Monitoring System with state-developed questions on cannabis
- Pregnancy: Self reported prevalence: 5.7%
- Postpartum prevalence: 5%
- Prenatal cannabis use was associated with a 50% increased likelihood of low birth weight, independent of maternal age, race/ethnicity, level of education, and tobacco use during pregnancy.
- Small for gestational age, preterm birth, and neonatal intensive care unit admission were not associated with prenatal cannabis use, independent of prenatal tobacco use.

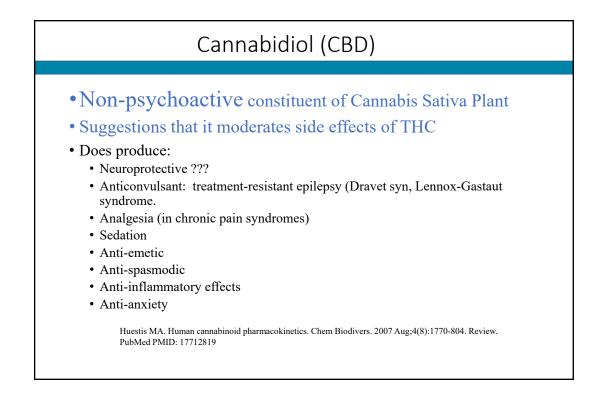
Crume TL, Juhl AL, Brooks-Russell A, Hall KE, Wymore E, Borgelt LM. *J Pediatr*. 2018;197:90-96.

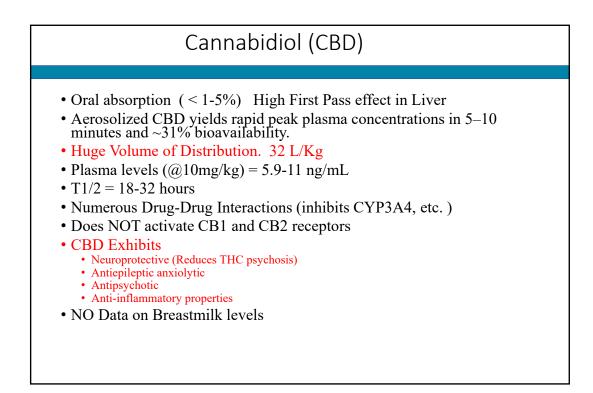


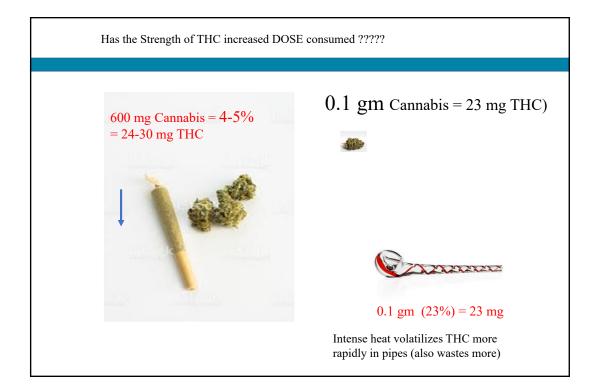


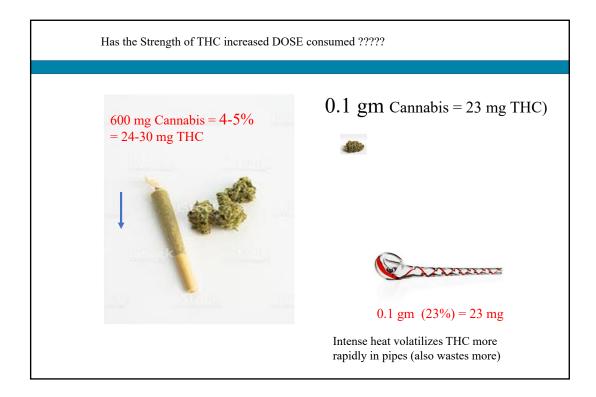


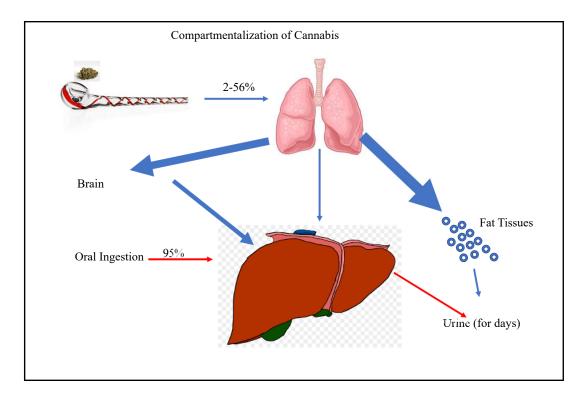


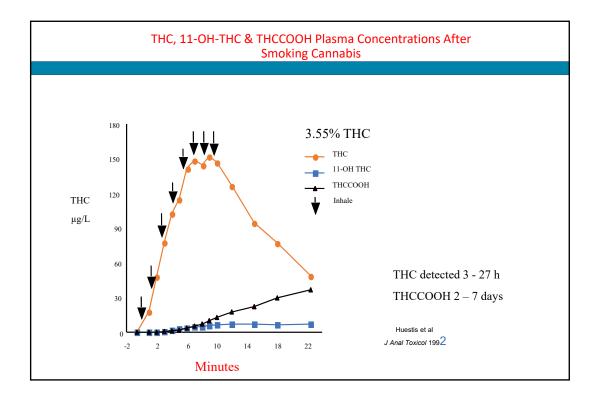


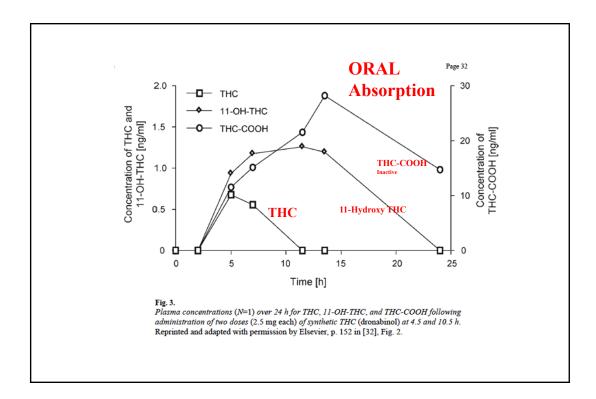


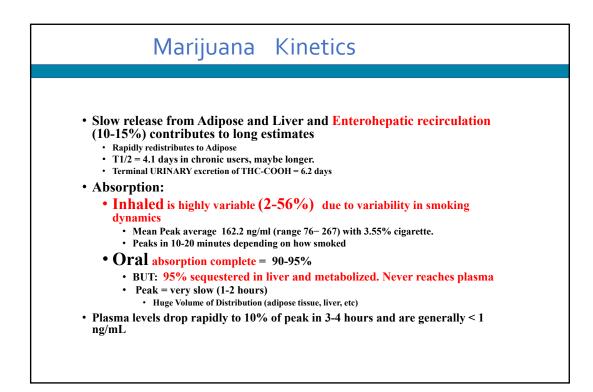


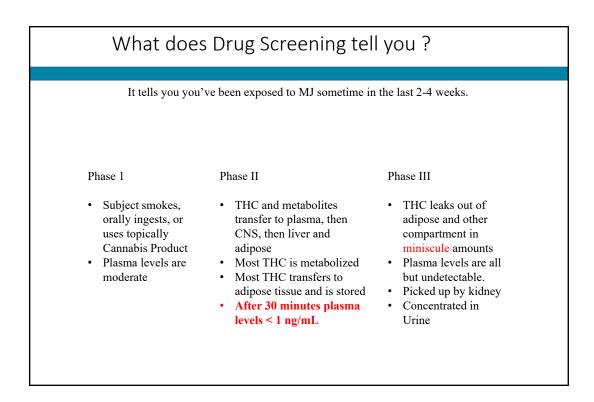


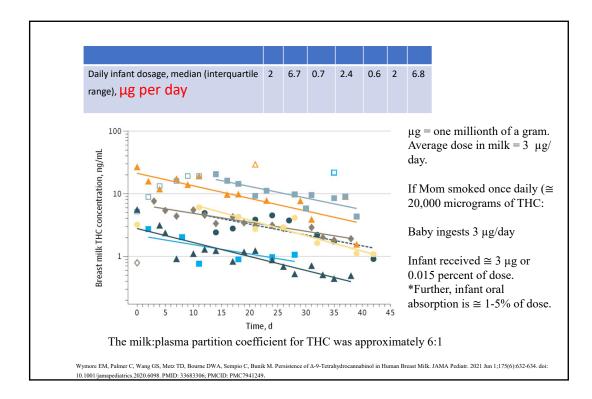


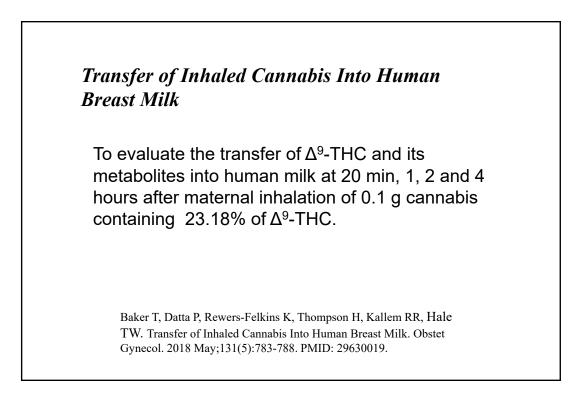


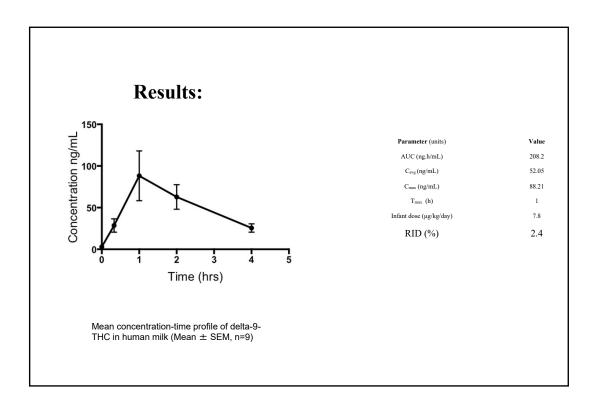


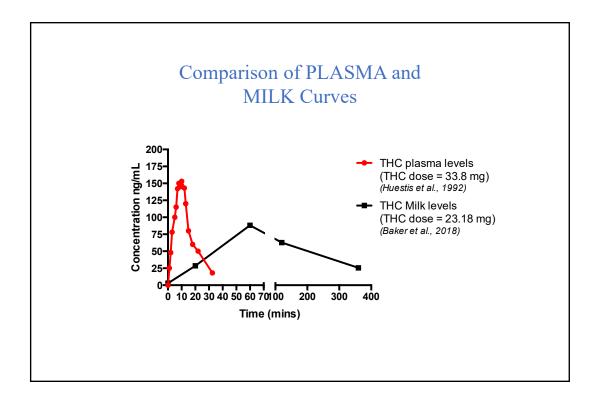


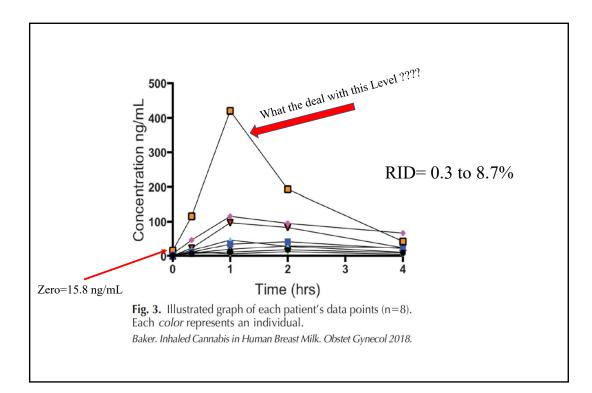


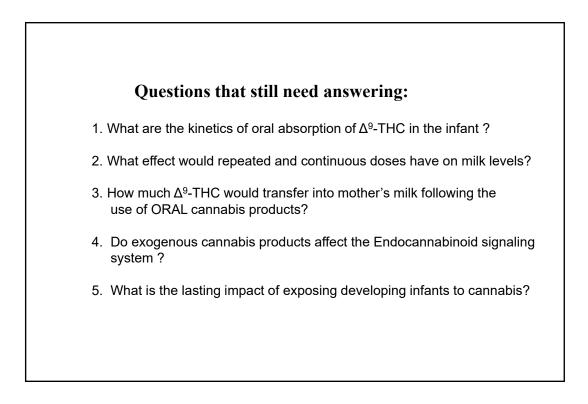












Final Thoughts With Opioids and Cannabis it's a wrestling match between the BENEFIT of human milk against the DETRIMENT of opioids and cannabis. The Reality is that with HIGH DOSES of Opioids you must be careful In Chronic/Dependent Moms, the infant is Less Sensitive to opioids and continued breastfeeding may actually reduce withdrawal in the infant without risk of apnea. In NON-Dependent Moms, infant is at higher risk of apnea depending on dose. Introduce lower doses of milk (half and half Donor milk) for week or so to allow baby to clear plasma levels of Opioid.

