THC – The Toxicology Perspective

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THC Use – Different Strokes for Different Folks

- Acute use vs chronic use
- Route of administration
  - Oral
  - Smoked
  - Vaping
  - Oils
- Self-titration

- All this leads down the path to...there is no one “number” for everyone
Phase I and II Cannabinoid Disposition in Blood and Plasma of Occasional and Frequent Smokers Following Controlled Smoked Cannabis

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THC - blood

Occasional smokers

Frequent smokers

§ P < 0.05

* P < 0.003
11-OH-THC - blood

**COOH-THC - blood**
What’s in a number?

• 2 ng/mL per se?
• 5 ng/mL per se?
• Concentration but an inference?

• Often overlook time of use vs time of stop vs time of collection
Toxicology Challenges

- Blood vs urine
  - Detecting parent/psychoactive compound
  - Only detecting inactive metabolite

- Oral fluid
  - Detecting THC instead of metabolites
  - Passive inhalation
  - Roadside devices