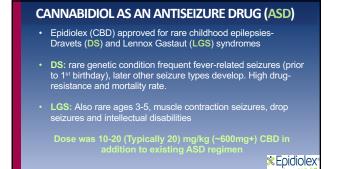


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CANNABIDIOL AS AN ASD

DS: 43% of CBD patients and 27% of placebo had >50% reduction in convulsive-seizure frequency

LGS: 42% reduction in drop seizures in 20mg/kg group, 37% in 10mg/kg. 17% in placebo

Adverse events included somnolence, decreased appetite, and diarrhea and abnormal liver-function (ALT/AST)

Trad of Cannabided for Dray Relations Seizures in the Lannox-Gastaut Synctions. Desirably et al N Engl J Med. 2019 May 25.79(21) 2011.

Synctions. Desirably et al N Engl J Med. 2019 May 25.79(21) 2011.

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CANNABIDIOL DRUG INTERACTIONS

Some of the CBD effect may have been a drug interaction with one of the other ASDs (Clobazam)

Patient responses, 20mg/kg CBD + Clobazam patients

Sedation in 44% of CBD + Clobazam patients

Sedation in 13% of CBD patients without Clobazam.

Sedation in 13% of CBD patients without Clobazam.

CBD is not very sedative except as a drug interaction.

CBD interaction with other ASDs were not significant.

Reduced effects were also Interactive.

CANNABIDIOL AS AN ANXIOLYTIC

CBD Decreases Anxiety in Social Anxiety Patients

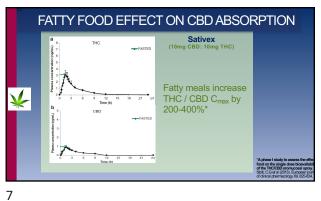
Simulated Public Speaking Test n=12

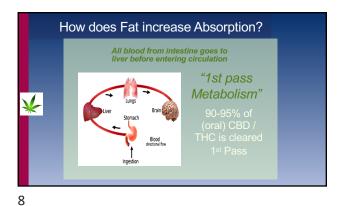
Social Anxiety n=37, 4wks 100mg CBD

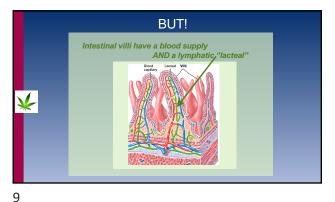
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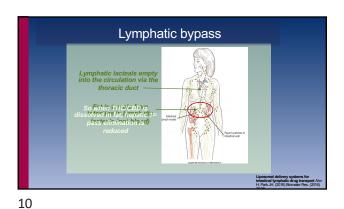
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FATTY FOOD EFFECT ON CBD ABSORPTION Consequences of "Food effect" Changes in bioavailability with food present potential overdose concerns ¥

Cannabidiol Summary Only "recognized indication" for CBD is Epilepsy. Dose is ~600-1500 mg/day • Evidence for anxiety reduction is increasing (300-500 mg/day) CBD probably not sedative. No sedation in 900mg CBD anxiety study or in NIDA single dose study (1500 mg) Lots of discussion how much CBD interacts with other drugs. Not much demonstrated except clobazam.

 There is a large food effect with CBD, your actual dose may depend on how you take it.

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