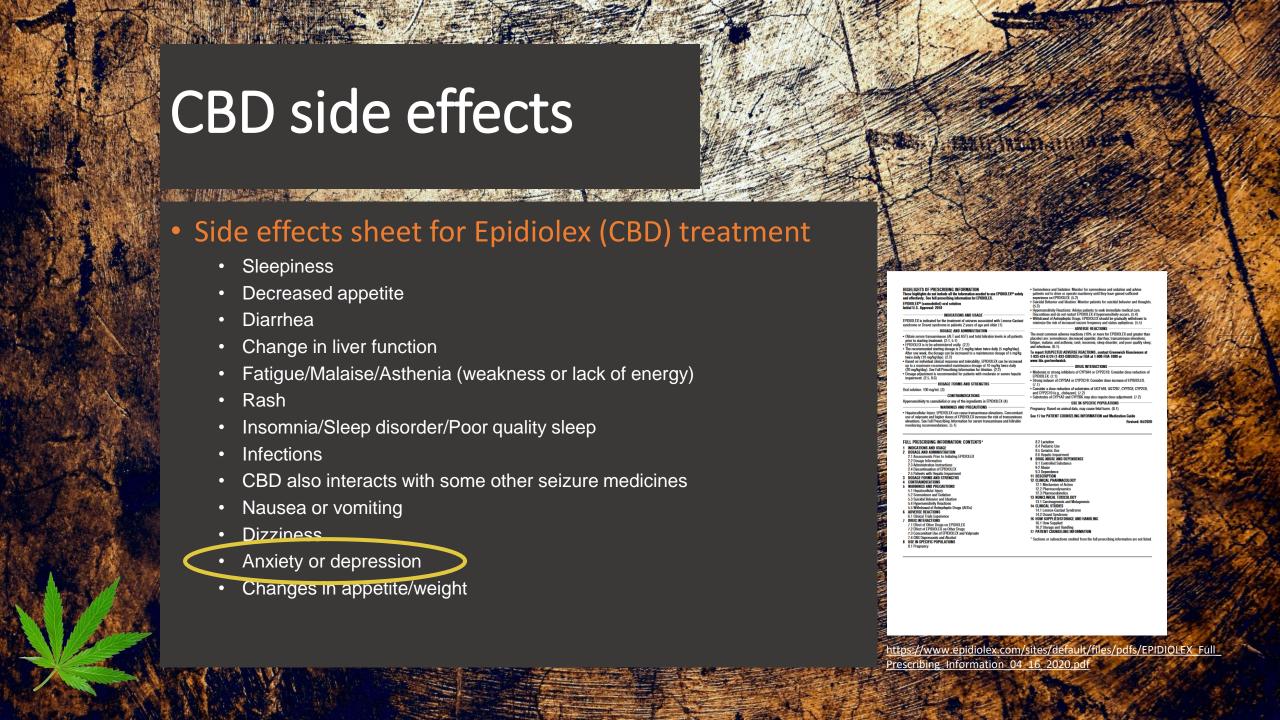
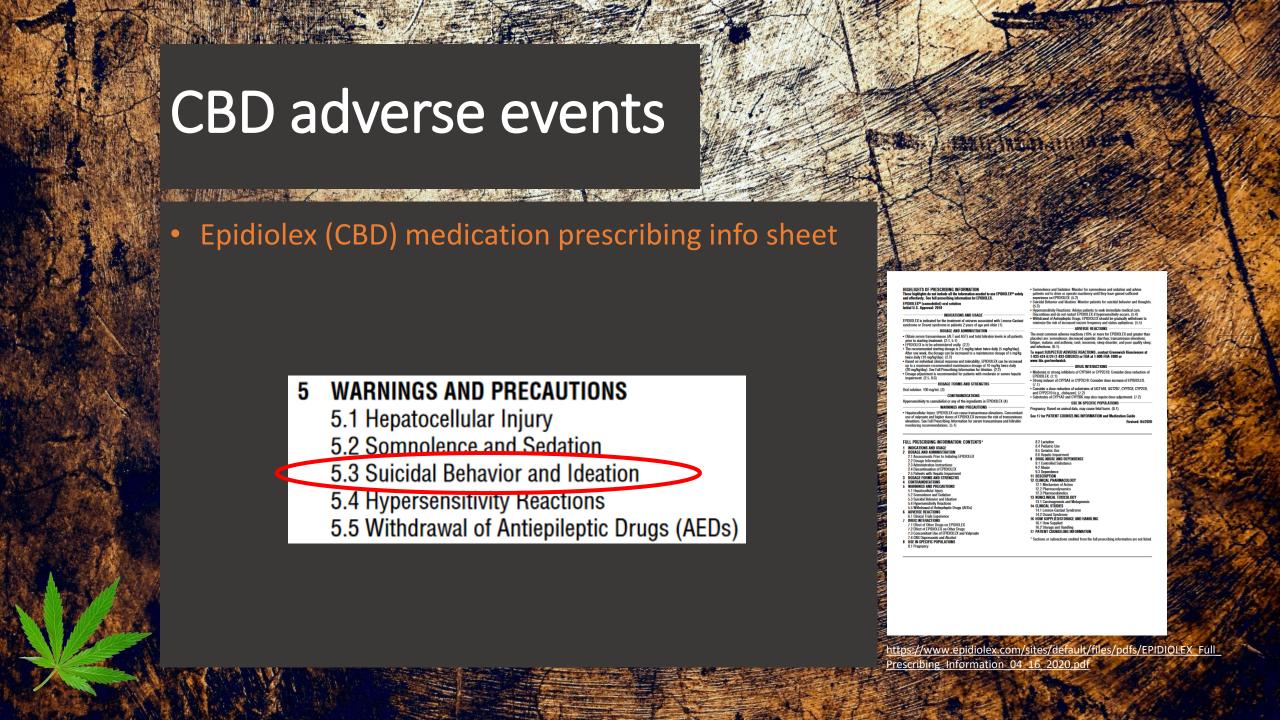
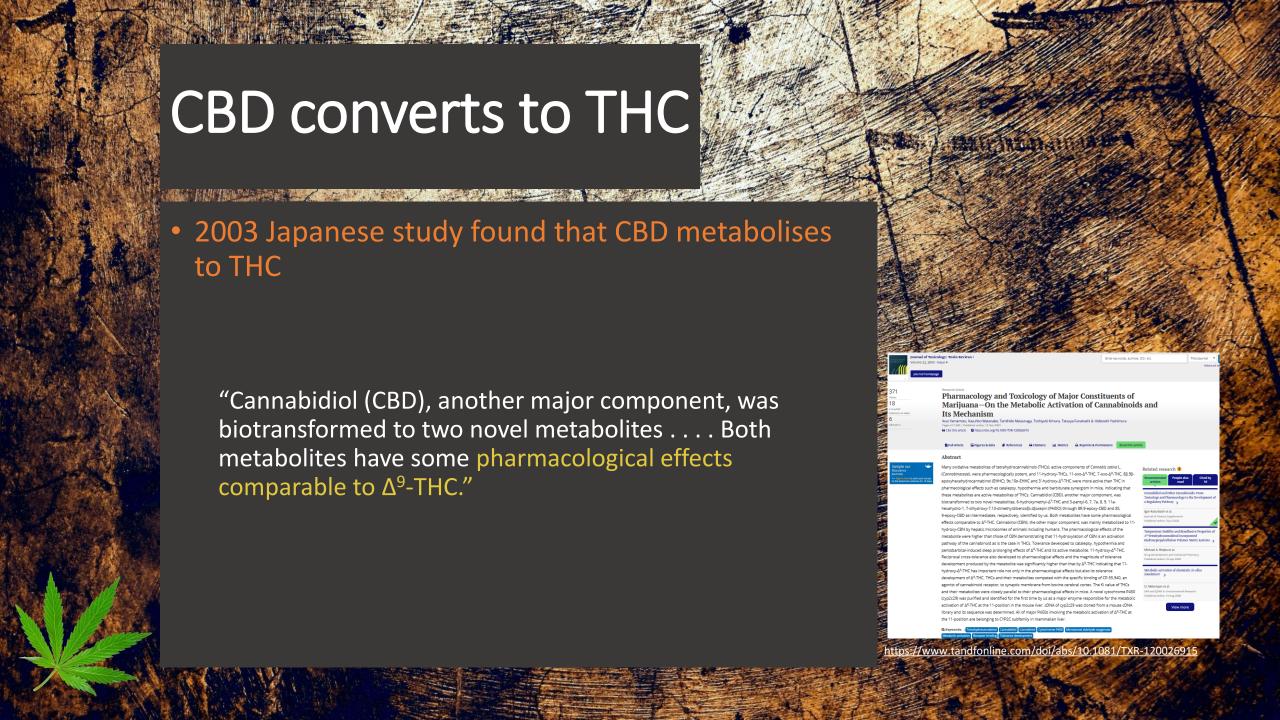


Episode 7 – Hemp and psychoactive metabolites









US population

Results for birth defects

•	tobacco	1	L1	
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• alcohol 5

Cannabis constituents (cannabinoids)

• THC		40

• Cannabidiol (CBD)

 Cannabis causal in 45 of 62 birth defects in all in the US data

BMC Pediatrics

RESEARCH

Geotemporospatial and causal inference epidemiological analysis of US survey and overview of cannabis, cannabidiol and cannabinoid genotoxicity in relation to congenital anomalies 2001–2015

Albert Stuart Reece $^{12^{\bullet}}$ and Gary Kenneth Hulse 12

Abstract

Background: Cannabriolds including cannabdiol have recognized genoloxic activities but their significance has not been studied broadly epidemiologically across the teratological spectrum. We examined these issues including contextual space-time relationships and formal causal inferential analysis in USA.

Methods: State congential anomaly (C A) rate (CA) data was taken from the annual eports of the National Birth Defects the resolute histeration 201-201, 201-201-2015. Statemen above rates were from the National Survey of Dag. Use and Health a nationally regreseratable longuistical survey of the non-institutionatived (15 population with 7.4 NF response rate (D high seamment were organized), response rate (D may exemine where organized) may be about the month's cannables and analyses and coraine abuse Carly termination of pregrams for abortion (ETOPFA) takes were taken from the published tilenature. Cannabization concentrations were form Daug Enforcement Agency. Ethinicity and income data were from the US Census Bursua, Invesse probability weighted (IPW) regressions and geotemporospatial regressions conducted for selected CAs.

Results: Dala on 18,286,29 birth from an aggregated population of 2,277,483,599 for mit year analyses 2005–2013 comprehending 12,611 AGR for G.C. Nor assembled and EUPOHA connected G104PM AGN when agregated E-Values for ETG/PHA.286 by substance trends were elevated for TH-C (et O.A.), cannables (65 CA), tobacco (11 CA), cannabidate (65 AG), monthly alchool to CA) and thone alchool (CA) with minimum-Palues descending from 16.55, 15.501 (5.551 (7.551 07) 9.30 and 32.98. Cardiovascular, gastrointestinal, chromosomal, limb reductions, uranay, face and bowl at ICA particularly affected. Highest v. Westest substance use quantifice AIGP residence ratios 2246 (598CL 244, 331), 485 (468, 577) and 1.92 (16.3, 227) and attituitable fraction in exposed 0.28 (622), 0.28, 657 (63), 662) and 67, 683, 653) for floors, cannabis and cannabido. Amal Intertaint servois or are and obstructive generation of the confirmed the causal role of cannabinated, systotemporal predictive modelling demonstrated

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https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8767720/pdf/12887

2021 Article 2996.pdf

THC accumulation

- THC accumulates in the body
 - THC is stored in the fat deposits of the brain and body
 - THC lasts for months
 - CBD Hemp is legally allowed to contain 0.3% THC
 - consistent use of CBD keeps THC accumulating
 - CBD metabolised to THC also contributes to accumulation
 - the harms presented by THC could affect CBD users as well

"THC has a half-life of about seven days, meaning that one-half of the THC ingested or inhaled stays in the brain and body tissue for seven days. Traces can stay in body tissues for a month or more. The only important substance that exceeds THC in fat solubility is DDT."

DrugWatch INTERNATIONAL ROMA RESOURCES - LEGISLATION - ALERTS Cannabis Hemp THC in the Food—Cosmetic Supply Details Category: Articles Published: 01 August 2000 By Jeanette McDougal, MM, CCDP, Chair William R. Walluts, Member Hemp Committee, Drug Watch Int. August 2000 Fiber Cannabis hemp seed, though containing tetrahydrocannabinol (THC, the main psychoactive ingredient in hempfimarijuana) and other cannabinoid residue, is being heavily marketed and promoted by the hemp industry as a source of food, nutraceuticals, and cosmetics. The harmful effects of THC on humans and other animals is well documented. Hemp advocates, however, minchigh the tactics or thotacci undustry apologist, challenge and "call into question" every statement substantiating harm caused by the use of Cannabis sativa. L. hemp. (Where used in this paper, the term hemp refers to cannabis sativa, aka marijuana, and not to any of the numerous other plant fibers also commonly referred to as hemp.) The campaign to use hemp fiber for paper, biomass, textiles, etc. has largely failed because hemp is neither economically viable nor technically feasible. However, because the handling, storage, and processing of hemp seed is more adaptable to present technologies than for hemp fiber, hemp seed production and products are now being agressively promoted. Low THC Cannabis sativa hemp that contains less than 3% (w/w) THC became legal to grow in Cannabi in Cannada in March, 1998. THC and the other cannabinoids are found in food and other products made from fiber hemp seed. According to canada's national health department, Health Cannada, 'in theory the ripened seeds of Cannabis contain no detectab quantity of THC. However, because of the nature of the material is almost impossible to obtain the seeds free from extraneous THC in the form of residues arising from other parts of the plant which are in close proximity to the seeds Athough it is required for the seeds to be cleaned before any subsequent use, the resinous nature of some of the material

https://www.drugwatch.org/resources/publications/articles/161-

cannabis-hemp-thc-in-the-food-cosmetic-supply.html

