“We have preliminary data showing that for certain medical conditions and symptoms that marijuana can be helpful, so I think we have to use that data to drive policymaking”.

Those are the words of the U.S. Surgeon General, Dr. Vivek Murthy. Not “may be helpful”, CAN be helpful! Our nation’s top doctor has quite publicly recognized that cannabis does have real medical uses! The age of “No recognized medical use” has passed! Our laws “merely” need to catch up with this “new medical reality”! (Are you registered to vote?)

There have been several exciting studies published recently, but one that really stands out is “Effect of Marijuana Use on Outcomes in Traumatic Brain Injury”. It’s a very small study, fewer than 500 people, but the results are so dramatic that it is very hard to ignore them!

Apparently even recreational use of cannabis may greatly increase the odds of surviving a brain trauma! In a nutshell- the mortality rate for non-users was 11.5%, while cannabis users had a rate of 2.4%! But it’s a small study and they need to repeat it with larger numbers! Yet, since it is a statistical study based on data that is normally collected in trauma cases, namely, drug testing and mortality rates in head trauma, it should be simple to duplicate this study to confirm it!

A second important study is “Daily marijuana use is not associated with brain morphometric measures in adolescents or adults” which shows that after taking into account certain factors overlooked by previous studies (alcohol use, age, gender, etc.) there is no “brain shrinkage”.

And the remarkable safety of cannabis was once again confirmed in “Comparative risk assessment of alcohol, tobacco, cannabis and other illicit drugs using the margin of exposure approach”. Of all the drugs that they compared, only cannabis was considered “low risk”.

Studies are coming out at such a rate that I have created a new section for the 2000 to 2009 studies. The first section now contains only the most recent studies, those from 2010 to 2015.

The “2000 to 2009” studies, the “old Pre-2000 studies”, the mini-dictionary make up the second section. Although these studies are older, there is a lot of good information here! You might triple space the mini-dictionary and print it up, so you could write in any new terms you find.

The large “Endocannabinoid System 2010 – 2015” category begins the 3rd PDF, followed by the much smaller “Endocannabinoid Genetics”. Next comes the “Phytocannabinoids” which has blossomed into a category in its own right, and finally, the “Synthetic Cannabinoids and Compounds That Affect the ECS”.

Share the List! Our government has lied to us for decades about this healing herb. It is time for the truth! There is so much more to cannabis than just the “high”! Once the medical facts become known, the need for full legalization becomes obvious! And as my grandfather once said, “If the truth won’t do, then something is wrong!”
Granny Storm Crow's List - January 2015

CONDITIONS and RELATED ARTICLES

2010 - 2015

+ = older studies in the 2000-2009 List.
* = older studies in Pre-2000 List.

It Is Time for Marijuana to Be Reclassified as Something Other Than a Schedule I Drug!
(article - 2005) (It’s been TEN years! Just sayin’!)  

ACHILLES TENDINOSIS

Increased Expression of Cannabinoid CB(1) Receptors in Achilles Tendinosis.  
(full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3169627/?tool=pubmed

ACNE +

Cannabidiol as a treatment for acne?  (article, p. 31 – 2010)  

Endocannabinoid signaling and epidermal differentiation.  (abst – 2011)  

Cannabidiol exerts sebostatic and antiinflammatory effects on human sebocytes.  

ACUPUNCTURE/ ELECTROACUPUNCTURE +

Involvement of ERK 1/2 activation in electroacupuncture pretreatment via cannabinoid CB1 receptor in rats.  (abst – 2010)  

Cannabinoid CB2 Receptors Contribute to Upregulation of β-endorphin in Inflamed Skin Tissues by Electroacupuncture (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3281798/

Activation of epsilon protein kinase C-mediated anti-apoptosis is involved in rapid tolerance induced by electroacupuncture pretreatment through cannabinoid receptor type 1. (full – 2011) http://stroke.ahajournals.org/content/42/2/389.long

Electroacupuncture reduces the expression of proinflammatory cytokines in inflamed skin tissues through activation of cannabinoid CB2 receptors. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/22337285


Electroacupuncture reduces the expression of proinflammatory cytokines in inflamed skin tissues through activation of cannabinoid CB2 receptors. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22337285


On the g-protein-coupled receptor heteromers and their allosteric receptor-receptor interactions in the central nervous system: focus on their role in pain modulation. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3730365/


Activation of STAT3 is involved in neuroprotection by electroacupuncture pretreatment via cannabinoid CB1 receptors in rats. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23880371


Glycogen synthase kinase-3β is involved in electroacupuncture pretreatment via the cannabinoid CB1 receptor in ischemic stroke. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/23943518

**ADD/ ADHD + * **


Medical Marijuana is Entering the Classroom (news – 2010) http://www.parentdish.com/2010/01/26/medical-marijuana-is-entering-the-classroom/


**ADDITION +**


Teen Pot Smoking Won't Lead to Other Drugs as Adults (news - 2010) http://www.webmd.com/parenting/news/20100902/teen-pot-smoking-wont-lead-to-other-drugs-as-adults


Aerobic Exercise Training Reduces Cannabis Craving and Use in Non-Treatment Seeking Cannabis-Dependent Adults (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3050879/?tool=pmcentrez


A Double-Blind Randomized Controlled Trial of N-Acetylcysteine in Cannabis-Dependent Adolescents. (full – 2012) http://ajp.psychiatryonline.org/article.aspx?articleID=1184217&resultClick=1


Involvement of the endocannabinoid system in reward processing in the human brain (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3266503/


The Global Epidemiology and Contribution of Cannabis Use and Dependence to the Global Burden of Disease: Results from the GBD 2010 Study (full – 2013) http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0076635

THC reduces the anticipatory nucleus accumbens response to reward in subjects with a nicotine addiction. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3590996/

Further evidence for association of polymorphisms in the CNR1 gene with cocaine addiction: confirmation in an independent sample and meta-analysis (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3223560/

Inhibition of FAAH and activation of PPAR: New approaches to the treatment of cognitive dysfunction and drug addiction. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3662489/
Probability and predictors of transition from abuse to dependence on alcohol, cannabis, and cocaine: results from the national epidemiologic survey on alcohol and related conditions. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3755735/


Reducing cannabinoid abuse and preventing relapse by enhancing endogenous brain levels of kynurenic acid. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3835353/


Impulsivity, Variation in the Cannabinoid Receptor (CNR1) and Fatty Acid Amide Hydrolase (FAAH) Genes, and Marijuana-Related Problems. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24172113


Prolonged monoacylglycerol lipase blockade causes equivalent CB1-receptor mediated adaptations in FAAH wild type and knockout mice. (full – 2014) http://jpet.aspetjournals.org/content/early/2014/05/21/jpet.114.212753.long
Pregnenolone can protect the brain from cannabis intoxication. (full – 2014) [link]

Potential Role of N-Acetylcysteine in the Management of Substance Use Disorders. (full – 2014) [link]

Systematic review of N-acetylcysteine in the treatment of addictions. (full – 2014) [link]

Endocannabinoid-dependent modulation of phasic dopamine signaling encodes external and internal reward-predictive cues. (full – 2014) [link]

Dependence Potential of the Synthetic Cannabinoids JWH-073, JWH-081, and JWH-210: In Vivo and In Vitro Approaches. (full – 2014) [link]

Delta-9 tetrahydrocannabinol (THC) and endocannabinoid degradative enzyme inhibitors attenuate intracranial self-stimulation (ICSS) in mice. (full – 2014) [link]

Expression and localization of cannabinoid receptor 1 in rats' brain treated with acute and repeated morphine. (link to PDF – 2014) [link]

Evaluation of WIN 55,212-2 self-administration in rats as a potential cannabinoid abuse liability model. (abst – 2014) [link]

Nabiximols as an Agonist Replacement Therapy During Cannabis Withdrawal: A Randomized Clinical Trial. (abst – 2014) [link]

Prevalence and correlates of alcohol and cannabis use disorders in the United States: Results from the national longitudinal study of adolescent health. (abst – 2014) [link]

Imaging dopamine transmission parameters in cannabis dependence. (abst – 2014) [link]

Evaluation of sex differences in cannabinoid dependence. (abst – 2014) [link]

Cannabis as a substitute for alcohol and other drugs: A dispensary-based survey of substitution effect in Canadian medical cannabis patients (abst – 2014) [link]

Strain differences in the expression of endocannabinoid genes and in cannabinoid receptor binding in the brain of Lewis and Fischer 344 rats. (abst – 2014) [link]
Changes in cigarette and alcohol use during cannabis abstinence. (abst – 2014)  


Cannabis withdrawal in chronic, frequent cannabis smokers during sustained abstinence within a closed residential environment. (abst – 2014)  

Cannabis Withdrawal in Patients With and Without Opioid Dependence. (abst – 2014)  

Cannabidiol: Pharmacology and potential therapeutic role in epilepsy and other neuropsychiatric disorders. (abst – 2014)  

The CB1 Receptor as an Important Mediator of Hedonic Reward Processing (abst – 2014)  

The FAAH inhibitor PF-04457845 has THC-like rewarding and reinstatement effects in squirrel monkeys and increases dopamine levels in the nucleus accumbens shell in rats (abst – 2014)  
http://www.fasebj.org/content/28/1_Supplement/838.6.abstract?sid=db987fd0-3ef0-4796-aff6-4103f0e84daf

Sex differences in antinociceptive tolerance to delta-9-tetrahydrocannabinol in the rat. (abst – 2014)  

Endocannabinoid signaling and food addiction. (abst – 2014)  

Enhanced Endocannabinoid-Mediated Modulation of Rostromedial Tegmental Nucleus Drive onto Dopamine Neurons in Sardinian Alcohol-Preferring Rats. (abst – 2014)  

Association study of CNR1, GAD1 and BDNF polymorphisms with male heroin dependence in the Dai population in Yunnan. (abst – 2014)  

Cannabinoid modulation of drug reward and the implications of marijuana legalization. (abst – 2014)  

Neuroinflammation as a possible link between cannabinoids and addiction. (abst – 2014)  


Cannabis conundrum: Evidence of harm?: Opposition to marijuana use is often rooted in arguments about the drug’s harm to children and adults, but the scientific evidence is seldom clear-cut (article – 2015) http://onlinelibrary.wiley.com/doi/10.1002/cncy.21516/full
ADOLESCENTS/ YOUNG ADULTS +

Uni-Morbid and Co-Occurring Marijuana and Tobacco Use: Examination of Concurrent Associations with Negative Mood States (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2861285/?tool=pubmed

Learning and memory performances in adolescent users of alcohol and marijuana: interactive effects. (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2965487/

Influence of cannabis use trajectories, grade repetition and family background on the school-dropout rate at the age of 17 years in France. (full - 2010)
http://eurpub.oxfordjournals.org/content/20/2/157.long

PTSD contributes to teen and young adult cannabis use disorders. (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2784238/?tool=pubmed

Adolescent cannabis use increases risk for cocaine-induced paranoia. (full - 2010)

Cannabis withdrawal severity and short-term course among cannabis-dependent adolescent and young adult inpatients (abst - 2010)

Cannabis Use and Obesity and Young Adults (abst - 2010)

A Life-course Perspective on the "Gateway Hypothesis". (abst – 2010)

Medical Marijuana is Entering the Classroom (news – 2010)

Dr. Jean Talleyrand Says Marijuana Safer than Ritalin for ADHD Teens (news – 2010)

Teen Pot Smoking Won't Lead to Other Drugs as Adults (news - 2010)

Sorry, Sgt. Friday, Pot Smoking Might Not Lead to Hard Drugs (news – 2010)

History of cannabis use is not associated with alterations in striatal dopamine D2/D3 receptor availability. (full – 2011) http://jop.sagepub.com/content/26/1/144.long

The social contagion effect of marijuana use among adolescents. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3018468/?tool=pubmed


Rural Adolescent Alcohol, Tobacco and Illicit Drug Use: A Comparison of Students in Victoria, Australia and Washington State, United States (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3186916/

Myocardial Infarction Associated With Use of the Synthetic Cannabinoid K2. (full – 2011) http://pediatrics.aappublications.org/content/128/6/e1622.long

The association between early conduct problems and early marijuana use in college students. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3163297/

Gender differences in adolescent marijuana use and associated psychosocial characteristics. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3359836/


High Childhood IQ Linked to Subsequent Illicit Drug Use, Research Suggests
Study: Legal Medical Marijuana Doesn't Encourage Kids to Smoke More Pot (news – 2011) [http://news.gather.com/viewArticle.action?articleId=281474980744307]

Prospective Study of Cannabis Use in Adolescents at Clinical High-Risk for Psychosis: Impact on Conversion to Psychosis and Functional Outcome (full – 2012) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3459073/]

Acute Intoxication Caused by a Synthetic Cannabinoid in Two Adolescents (full – 2012) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3470439/]

Does the "gateway" sequence increase prediction of cannabis use disorder development beyond deviant socialization? Implications for prevention practice and policy. (full – 2012) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3387340/]


Prevalence and co-use of marijuana among young adult cigarette smokers: An anonymous online national survey (full – 2012) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3507655/]


A Double-Blind Randomized Controlled Trial of N-Acetylcysteine in Cannabis-Dependent Adolescents. (full – 2012) [http://ajp.psychiatryonline.org/article.aspx?articleID=1184217&resultClick=1]


Acute intoxication caused by a synthetic cannabinoid in two adolescents. (full – 2012) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3470439/]

Sensation-seeking genes and physical activity in youth (full – 2012)


Medical marijuana legalization won't boost teen pot use, study finds (news – 2012) http://www.cbsnews.com/8301-504763_162-57456999-10391704/medical-marijuana...


Cannabis extract treatment for terminal acute lymphoblastic leukemia with a Philadelphia chromosome mutation (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3901602/

Identity Formation, Marijuana and “The Self”: A Study of Cannabis Normalization among University Students (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3847659/

Correlations between cannabis use and IQ change in the Dunedin cohort are consistent with confounding from socioeconomic status. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3600466/
Effects of State Medical Marijuana Laws on Adolescent Marijuana Use.  (full – 2013)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4007871/

Legalization of medical marijuana and marijuana use among youths.  (full – 2013)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3638722/

Fascination and Social Togetherness-Discussions about Spice Smoking on a Swedish Internet Forum.  (full – 2013)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3855086/

Higher rates of adolescent substance use in child welfare versus community populations in the United States.  (link to PDF - 2013)


Study: Depenalizing Drug Possession Offenses Associated With Lower Drug Consumption Rates Among Young People  (news – 2013)
Marijuana Helped Teen Fight Leukemia, Say Doctors (news – 2013)

Is Medical Marijuana Safe For Children and Adolescents? (news - 2013)
http://www.wakingtimes.com/2013/05/27/is-medical-marijuana-safe-for-children-and-adolescents/

Legalise marijuana to deter teen binge drinking? (news – 2013)

Marijuana use on the rise among young adults, fiftysomethings (news – 2013)

Cannabis use among teens is on the rise in some developing countries (news – 2013)
http://www.medicalnewstoday.com/releases/269017.php


Teen Marijuana Use Hasn't Exploded Amid Boom in Legalization Support, Drug Survey Finds (news – 2013)

Survey: Teens using synthetic drugs less often (news - 2013)
http://news.yahoo.com/survey-teens-using-synthetic-drugs-less-often-050311100.html;_ylt=AwrSyCRcGbJSjlYA1CTQtDMD

Harvard: Marijuana Doesn’t Cause Schizophrenia (news – 2013)

Smoking "spice" associated with stroke in healthy, young adults (news – 2013)
http://www.medicalnewstoday.com/releases/269132.php

Cannabis use among a sample of 16 to 18 year-old students in Switzerland. (full – 2014)
http://www.hdbp.org/psychiatria_danubina/pdf/dnb_vol26_no1/dnb_vol26_no1_56.pdf

Cigarette smoking during an N-acetylcysteine-assisted cannabis cessation trial in adolescents. (full – 2014)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4118750/

Pediatric exposure to drugs of abuse by hair testing: monitoring 15 years of evolution in Spain. (full – 2014)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4143861/
An Examination of Opinions Toward Marijuana Policies Among High School Seniors in the United States  (full – 2014)
http://www.tandfonline.com/doi/full/10.1080/02791072.2014.962716#tabModule

Synthetic cannabinoid use among patients in residential substance use disorder treatment: Prevalence, motives, and correlates. (abst – 2014)

Childhood and current ADHD symptom dimensions are associated with more severe cannabis outcomes in college students. (abst – 2014)

Prevalence and correlates of alcohol and cannabis use disorders in the United States: Results from the national longitudinal study of adolescent health. (abst – 2014)


The Impact of a Motivational Statement and Age of Cannabis Use Onset on Neuropsychological Test Performance. (abst – 2014)
An exploratory study of the combined effects of orally administered methylphenidate and delta-9-tetrahydrocannabinol (THC) on cardiovascular function, subjective effects, and performance in healthy adults. (abst – 2014)

Adverse psychosocial outcomes associated with drug use among US high school seniors: a comparison of alcohol and marijuana. (abst – 2014)

Synthetic Cannabinoids: Use and predictors in a Community Sample of Young Adults (abst – 2014)

Cannabis use and suicidal ideations in high-school students. (abst – 2014)

Socialization Instances Linked to Cannabis Experimentation Among French Teenagers. (abst – 2014)

Programming of neural cells by (endo)cannabinoids: from physiological rules to emerging therapies. (abst – 2014)

Frequent electronic media communication with friends is associated with higher adolescent substance use. (abst – 2014)

Early onset of cannabis use: Does personality modify the relation with changes in perceived parental involvement? (abst – 2014)

Medical marijuana and children. (abst – 2014)

Pot-smoking students better at school than 'marginalized' tobacco-smoking peers (news – 2014)

Surveys yet to link medical marijuana and teen drug abuse (news - 2014)

Alcohol and drugs put teens at increased risk for unsafe driving (news – 2014)

Legalizing Medical Marijuana Doesn't Lead To More Teens Smoking Pot: Study (news – 2014)
Study: Students better off saying 'no' to pot jobs  

Marijuana Users Have Better Cognitive Skills, Study Finds  
http://www.leafscience.com/2014/03/14/marijuana-users-better-cognitive-skills-study-finds/

UCSF-led study gathers data on safety, tolerability of purified cannabinoid for children with epilepsy  

Synthetic Drug Use Skyrocketing, Targeting Young Users  

CHART: College Lacrosse Athletes Are More Likely To Use Marijuana Than Any Other Sport  

Medical Marijuana Legalization: Pro-Pot Laws Do Not Lead To More Drug Use Among Teens, Study Finds  

Foster teen says she drank bleach to mask cannabis  
You DO NOT DRINK IT!  

Alcohol, marijuana bad for teens in different ways  

After California decriminalize marijuana, teen arrest, overdose and dropout rates fell  

Pot Is the New Normal  
http://time.com/3514137/marijuana-legalization-colorado-new-normal/

Marijuana: Occasional Cannabis Use in Teenagers Has 'No Relationship' with IQ or Exam Results  
https://uk.news.yahoo.com/marijuana-occasional-cannabis-teenagers-no-relationship-131850613.html#baXFolW

NYU research: Majority of high school seniors favor more liberal marijuana policies  
Treat or nasty trick? Denver police warn of pot-tainted candy (news – 2014)
http://news.yahoo.com/treat-nasty-trick-denver-police-warn-pot-tainted-123837659.html;_ylt=AwrSyCVsq1VU00EASRbQtDMD

New Test Kit: Parents Can Screen Candy For Marijuana (news – 2014)

No Halloween pot poisonings in Denver, hospital says (news – 2014)

Teen marijuana use falls as more states legalize (news – 2014)

After California decriminalized marijuana, teen arrest, overdose and dropout rates fell (news – 2014)

No increase in teen marijuana use in 2014, national survey finds (news – 2014)

Pot Use Among Colorado Teens Appears to Drop After Legalization (news – 2014)

No, marijuana use doesn’t lower your IQ (news – 2014)

Marijuana use and high school graduation: it’s complicated (news – 2014)

Teens smoking highly potent 'dabs' or 'earwax' with e-cigarettes (news – 2014)

Poll: 47% in under-40 crowd say booze worse than weed (news – 2014)

Status Report: Marijuana Legalization in Colorado After One Year of Retail Sales and Two Years of Decriminalization (full – 2015)

Associations between cigarette smoking and cannabis dependence: A longitudinal study of young cannabis users in the United Kingdom. (link to PDF – 2015)
http://www.drugandalcoholdependence.com/article/S0376-8716%2815%2900010-1/abstract
Cannabis conundrum: Evidence of harm?: Opposition to marijuana use is often rooted in arguments about the drug's harm to children and adults, but the scientific evidence is seldom clear-cut. (article – 2015) http://onlinelibrary.wiley.com/doi/10.1002/cncy.21516/full


**AGING + - also see OLDER ADULT CANNABIS USERS, MENOPAUSE**


Role of CB1 cannabinoid receptors on GABAergic neurons in brain aging (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3131310/?tool=pubmed

Early onset of aging-like changes is restricted to cognitive abilities and skin structure in Cnr1(-/-) mice. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/20724033


Endocannabinoid type 1 receptor gene (CNR1) polymorphisms (rs806381, rs10485170, rs6454674, rs2023239) and cardiovascular risk factors in postmenopausal women. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21480765


Endocannabinoid Signaling In Dietary Restriction And Lifespan Extension (news – 2011) http://www.medicalnewstoday.com/releases/225007.php


Bodyguard for the brain (news – 2011) http://www.sciencecodex.com/bodyguard_for_the_brain

Role of CB1 cannabinoid receptors on GABAergic neurons in brain aging (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3131310/?tool=pubmed

Loss of CB1 receptors leads to differential age-related changes in reward-driven learning and memory. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3514639/

Can the benefits of cannabinoid receptor stimulation on neuroinflammation, neurogenesis and memory during normal aging be useful in AD prevention? (full – 2012) http://www.jneuroinflammation.com/content/9/1/10

The endocannabinoid, anandamide, augments Notch-1 signaling in cultured cortical neurons exposed to amyloid-beta and in the cortex of aged rats. (full – 2012) http://www.jbc.org/content/early/2012/08/13/jbc.M112.350678.long

Review article: The endocannabinoid system in normal and pathological brain ageing (full – 2012)
Cannabinoid Type 1 Receptor Gene Polymorphism and Macronutrient Intake. (full – 2012) [link]

Age-related changes of anandamide metabolism in CB1 cannabinoid receptor knockout mice: correlation with behaviour. (abst – 2012) [link]

Israel pushing ahead in medical marijuana industry (news – 2012) [link]

How Cannabinoids May Slow Brain Aging (news – 2012) [link]

Aging modifies the enzymatic activities involved in 2-arachidonoylglycerol metabolism. (abst – 2013) [link]

Anandamide deficiency and heightened neuropathic pain in aged mice. (abst – 2013) [link]

Loss of CB1 receptors leads to decreased cathepsin D levels and accelerated lipofuscin accumulation in the hippocampus. (abst – 2013) [link]

Plasma-Free Fatty Acids, Fatty Acid-Binding Protein 4, and Mortality in Older Adults (from the Cardiovascular Health Study). (abst – 2014) [link]

The endocannabinoid system and appetite: relevance for food reward. (abst – 2014) [link]

GPR55 Deletion in Mice Leads to Age-Related Ventricular Dysfunction and Impaired Adrenoceptor-Mediated Inotropic Responses. (abst – 2014) [link]

Normal aging in rats and pathological aging in human Alzheimer disease decrease FAAH activity: Modulation by cannabinoid agonists. (abst – 2014) [link]

Endocannabinoid signalling and the deteriorating brain. (abst – 2014) [link]

Enhanced microglial activity in FAAH-/- animals. (abst – 2014) [link]

Cannabinoid receptor-dependent metabolism of 2-arachidonoylglycerol during aging.
Monterey County seniors finding pain relief in medical marijuana  

AIDS – see HIV

**ALCOHOLISM/ALCOHOL**  
Plasma anandamide and other N-acyl ethanolamines are correlated with their corresponding free fatty acid levels under both fasting and non-fasting conditions in women  
[full – 2010](http://www.nutritionandmetabolism.com/content/7/1/49)

Converging action of alcohol consumption and cannabinoid receptor activation on adult hippocampal neurogenesis.  
[full – 2010](http://ijnp.oxfordjournals.org/content/13/2/191.long)

Learning and memory performances in adolescent users of alcohol and marijuana: interactive effects.  
[full – 2010](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2965487/)

The Endocannabinoid System Tonically Regulates Inhibitory Transmission and Depresses the Effect of Ethanol in Central Amygdala  
[full - 2010](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2904853/)

Selective alterations of the CB1 receptors and the fatty acid amide hydrolase in the ventral striatum of alcoholics and suicides.  
[full – 2010](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2878847/)

Influence of ethanol on cannabinoid pharmacokinetic parameters in chronic users  
(abst - 2010)  

11-nor-Delta9-tetrahydrocannabinol-9-carboxylic acid ethyl ester (THC-COOEt): unsuccessful search for a marker of combined cannabis and alcohol consumption.  
(abst – 2010)  
[http://www.unboundmedicine.com/medline/ebm/record/20074877/abstract/11_nor_Delta9_tetrahydrocannabinol_9_carboxylic_acid_ethyl_ester__THC_COOEt__unsuccessful_search_for_a_marker_of_combined_cannabis_and_alcohol_consumption](http://www.unboundmedicine.com/medline/ebm/record/20074877/abstract/11_nor_Delta9_tetrahydrocannabinol_9_carboxylic_acid_ethyl_ester__THC_COOEt__unsuccessful_search_for_a_marker_of_combined_cannabis_and_alcohol_consumption)

Role of the endocannabinoid system in alcoholic liver disease.  
(abst – 2010)  
The effects of cannabis and alcohol on simulated arterial driving: Influences of driving experience and task demand. (abst – 2010)
http://www.unboundmedicine.com/medline/ebm/record/20380913/abstract/The_effects_of_cannabis_and_alcohol_on_simulated_arterial_driving:_Influences_of_driving_experience_and_task_demand

Study shows direct cellular interaction between endocannabinoids and alcohol in the brain (news - 2010)

Marijuana To Control Alcohol Abuse (news - 2010)


Study Overturns Decade-Old Findings in Neurobiology: Research Suggests Potential Target for Drugs to Combat Alcohol Addiction (news - 2010)
http://www.sciencedaily.com/releases/2010/05/100512151549.htm

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**BONES** - see **OSTEOPOROSIS**

**BONE CEMENT IMPLANTATION SYNDROME** - see **HIP REPLACEMENT**

**BONE MARROW** +

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**BRAIN TRAUMA** +*- also see CHRONIC TRAUMATIC ENCEPHALOPATHY

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The fatty acid amide hydrolase inhibitor PF-3845 promotes neuronal survival, attenuates inflammation and improves functional recovery in mice with traumatic brain injury. (abst – 2014)  

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Augmented Inhibition from Cannabinoid-Sensitive Interneurons Diminishes CA1 Output after Traumatic Brain Injury. (full – 2015)

Motor, Visual and Emotional Deficits in Mice after Closed-Head Mild Traumatic Brain Injury Are Alleviated by the Novel CB2 Inverse Agonist SMM-189 (full – 2015)
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How Medical Marijuana’s Chemicals May Protect Cells (news – 2015)
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BREASTFEEDING/ LACTATION/ INFANT APPETITE +*

Effects of increasing amounts of hempseed cake in the diet of dairy cows on the production and composition of milk. (full – 2010)
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Excess of the endocannabinoid anandamide during lactation induces overweight, fat accumulation and insulin resistance in adult mice (full – 2012)
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Cannabinoid modulation of mother-infant interaction: is it just about milk? (abst – 2012)

Cannabinoids, like those found in marijuana, occur naturally in human breast milk (news – 2012) http://www.naturalnews.com/036526_cannabinoids_breast_milk_THC.html

Cannabinoids: Common to Marijuana and Human Breast Milk (news – 2012)  

Detection of the endocannabinoid metabolome in human plasma and breast milk (abst – 2013)  
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Continuous central infusion of cannabinoid receptor agonist WIN 55,212-2 decreases maternal care in lactating rats: Consequences for fear conditioning in adulthood males. (abst – 2013)  

The CB1 cannabinoid receptor mediates glucocorticoid-induced effects on behavioural and neuronal responses during lactation. (abst – 2013)  

BRUEGHEL’S SYNDROME - see MEIGE’S SYNDROME

BULIMIA +

A nonsynonymous polymorphism in cannabinoid CB2 receptor gene is associated with eating disorders in humans and food intake is modified in mice by its ligands. (abst – 2010)  

The cannabinoid receptor agonist THC attenuates weight loss in a rodent model of activity-based anorexia. (full – 2011)  
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The Endocannabinoid System as Pharmacological Target Derived from Its CNS Role in Energy Homeostasis and Reward. Applications in Eating Disorders and Addiction (link to PDF - 2011)  

The genetics of eating disorders. (abst – 2011)  

Brain Type 1 Cannabinoid Receptor Availability in Patients with Anorexia and Bulimia Nervosa. (abst – 2011)  

Do Deficits in Brain Cannabinoids Contribute to Eating Disorders? (news – 2011)  

Eating Disorders Tied to Absence of Brain Cannabinoids (news – 2011)
Scientists Link Malfunctions in the Endocannabinoid System to Bulimia and Anorexia (news – 2011)
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Lower levels of cannabinoid 1 receptor mRNA in female eating disorder patients: Association with wrist cutting as impulsive self-injurious behavior. (abst – 2012)

The Role of the Endocannabinoid System in Eating Disorders: Neurochemical and Behavioural Preclinical Evidence. (abst – 2013)


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BURNING MOUTH SYNDROME

Epithelial expression of vanilloid and cannabinoid receptors: a potential role in burning mouth syndrome pathogenesis (full – 2013)

Neuropathic orofacial pain: Cannabinoids as a therapeutic avenue (abst – 2014)

BURN INJURY +

Cannabinoid Receptor Type 1 Antagonist, AM251, Attenuates Mechanical Allodynia and Thermal Hyperalgesia after Burn Injury (abst – 2014)
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CACHEXIA + – weight loss from toxic cytokines deranging carbohydrate, lipid and protein metabolism
Nutritional Interventions for Cancer-induced Cachexia  (full – 2010)
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Clinical evaluation and optimal management of cancer cachexia.  (abst – 2014)

CAFFEINE and the ENDOCANNABINOID SYSTEM +


Combined effects of THC and caffeine on working memory in rats.  (full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3423236/

Regulation of hippocampal cannabinoid CB1 receptor actions by adenosine A1 receptors and chronic caffeine administration: implications for the effects of Δ9-tetrahydrocannabinol on spatial memory.  (full – 2011)  http://www.nature.com/npp/index.html

The effects of caffeine, nicotine, ethanol, and tetrahydrocannabinol on exercise performance  (full – 2013)  http://www.nutritionandmetabolism.com/content/10/1/71

CANCER – ADRENAL CORTICAL – see 2000 - 20009

CANCER – ANGIOSARCOMA

Benton Mackenzie  (news – 2015)

Benton Mackenzie dies after fight with cancer  (news – 2015)

CANCER – BASAL CELL CARCINOMA  - see CANCER – SKIN
**CANCER – BLADDER / URETHRAL**


Magnolol suppresses hypoxia-induced angiogenesis via inhibition of HIF-1α/VEGF signaling pathway in human bladder cancer cells (abst – 2013)  

Study claims marijuana tied to lower bladder cancer risk (news – 2013)  

Human urothelial cell lines as potential models for studying cannabinoid and excitatory receptor interactions in the urinary bladder. (abst – 2014)  

Association Between Cannabis Use and the Risk of Bladder Cancer: Results From the California Men’s Health Study. (abst – 2015)  

Whole-Plant Cannabis Use Associated with Decreased Likelihood of Developing Bladder Cancer (news – 2015)  

**CANCER – BONE**

Spinal and peripheral analgesic effects of the CB cannabinoid receptor agonist AM1241 in two models of bone cancer-induced pain. (full - 2010)  
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A cannabinoid 2 receptor agonist attenuates bone cancer-induced pain and bone loss. (full - 2010)  
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The endocannabinoid system and cancer: therapeutic implication (full – 2011)  

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CANCER - HEAD AND NECK +


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CANCER – LIVER +

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Buying Pot For My 11-Year-Old  

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**CROHN’S DISEASE** +* - also see BOWEL DISORDERS

The Cannabinoid 1 Receptor (CNR1) 1359 G/A Polymorphism Modulates Susceptibility to Ulcerative Colitis and the Phenotype in Crohn's Disease (full - 2010)
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As text- http://memory.loc.gov/cgi-bin/query/r?ammem/faw:@field%28DOCID+icufawbc0010%29

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11-nor-Delta9-tetrahydrocannabinol-9-carboxylic acid ethyl ester (THC-COOEt): unsuccessful search for a marker of combined cannabis and alcohol consumption. (abst – 2010)  
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A study on the concentrations of 11-nor-Δ(9)-tetrahydrocannabinol-9-carboxylic acid (THCCOOH) in hair root and whole hair. (abst – 2011)  

A comparative study on the concentrations of 11-nor-Δ(9)-tetrahydrocannabinol-9-carboxylic acid (THCCOOH) in head and pubic hair. (abst – 2011)  

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The standardization of results on hair testing for drugs of abuse: An interlaboratory exercise in Lombardy Region, Italy. (abst – 2011)  

Determination of 22 synthetic cannabinoids in human hair by liquid chromatography-tandem mass spectrometry. (abst – 2012)  

Simultaneous analysis of several synthetic cannabinoids, THC, CBD and CBN, in hair by ultra-high performance liquid chromatography tandem mass spectrometry. Method
Monitoring of chronic Cannabis abuse: An LC-MS/MS method for hair analysis. (abst – 2012)  

Development and validation of an LC-MS/MS method for quantification of Δ9-tetrahydrocannabinolic acid A (THCA-A), THC, CBN and CBD in hair. (abst – 2013)  

Determination of cocaine, cocaine metabolites and cannabinoids in single hairs by MALDI Fourier transform mass spectrometry - preliminary results. (abst – 2013)  

Deposition of JWH-018, JWH-073 and their metabolites in hair and effect of hair pigmentation. (abst – 2013)  

Diagnostic Value of Concentration Profiles of Glucocorticosteroids and Endocannabinoids in Hair. (abst – 2013)  

Methadone and illegal drugs in hair from children with parents in maintenance treatment or suspected for drug abuse in a German community. (abst – 2013)  

Hair analysis as a tool to evaluate the prevalence of synthetic cannabinoids in different populations of drug consumers. (full – 2014)  

Screening for synthetic cannabinoids in hair by using LC-QTOF MS: A new and powerful approach to study the penetration of these new psychoactive substances in the population (full – 2014)  
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Hair analysis for THCA-A, THC and CBN after passive in vivo exposure to marijuana smoke. (full – 2014)  

Proof of cannabis administration by sensitive detection of 11-nor-Delta(9)-tetrahydrocannabinol-9-carboxylic acid in hair using selective methylation and application of liquid chromatography- tandem and multistage mass spectrometry. (full – 2014)  

Utility of ELISA screening for the monitoring of abstinence from illegal and legal drugs in hair and urine. (full – 2014)  

Utility of coloured hair for the detection of drugs and alcohol. (full – 2014)  

Pediatric exposure to drugs of abuse by hair testing: monitoring 15 years of evolution in Spain. (full – 2014)  
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Workplace drug testing in Italy: Findings about second-stage testing.  (abst – 2014)  

Cannabinoid findings in children hair - what do they really tell us? An assessment in the light of three different analytical methods with focus on interpretation of Δ9-tetrahydrocannabinolic acid A concentrations. (abst – 2014)  

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Is urine an alternative to cosmetically treated hair for the detection of drugs and alcohol? (abst – 2014)  

Contribution of in utero drug exposure when interpreting hair results in young children. (abst – 2014)  

**DRUG TESTING - OTHER +**

Drugs of abuse in airborne particulates in urban environments.  (abst – 2010)  

Versatile new ion source for the analysis of materials in open air under ambient conditions.  (abst – 2011)  

Simultaneous analysis of frequently used licit and illicit psychoactive drugs in breast milk by liquid chromatography tandem mass spectrometry.  (abst – 2011)  

Chemiluminescence detection of cannabinoids and related compounds with acidic potassium permanganate.  (abst – 2012)  


Detection of In Utero Marijuana Exposure by GC–MS, Ultra-Sensitive ELISA and LC–TOF–MS Using Umbilical Cord Tissue  (full – 2013)  
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Detecting Cannabis Use on the Human Skin Surface via an Electronic Nose System.  (link to PDF– 2014)  http://www.mdpi.com/1424-8220/14/7/13256


**DRUG TESTING - ORAL +**


Synthetic cannabinoids in oral fluid. (full – 2011) 
http://jat.oxfordjournals.org/content/35/7/424.long

Cannabinoids and metabolites in expectorated oral fluid after 8 days of controlled around-the-clock oral THC administration. (full - 2011) 
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Cannabinoids in oral fluid following passive exposure to marijuana smoke. (abst – 2011) 

Oral Fluid Cannabinoids in Chronic, Daily Cannabis Smokers During Sustained, Monitored Abstinence. (abst – 2011) 

A validated method for the detection and quantitation of 50 drugs of abuse and medicinal drugs in oral fluid by gas chromatography-mass spectrometry. (abst – 2011) 

Oral Fluid and Plasma Cannabinoid Ratios after Around-the-Clock Controlled Oral (Delta)9-Tetrahydrocannabinol Administration. (abst – 2011) 

A placebo-controlled study to assess Standardized Field Sobriety Tests performance during alcohol and cannabis intoxication in heavy cannabis users and accuracy of point of collection testing devices for detecting THC in oral fluid. (full – 2012) 
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Can oral fluid cannabinoid testing monitor medication compliance and/or cannabis smoking during oral THC and oromucosal Sativex administration? (full – 2012) 
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Endocannabinoids measurement in human saliva as potential biomarker of obesity. (full – 2012) 
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Comparison of cannabinoid concentrations in oral fluid and whole blood between occasional and regular cannabis smokers prior to and after smoking a cannabis joint. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24202191

Stability of 11 prevalent synthetic cannabinoids in authentic neat oral fluid samples: glass versus polypropylene containers at different temperatures (abst – 2013)

The detection of THC, CBD and CBN in the oral fluid of Sativex® patients using two on-site screening tests and LC-MS/MS. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/24699310


**DRUG TESTING – SECOND-HAND SMOKE** – see METHODS OF USE - SECOND HAND SMOKE

**DRUG TESTING – URINE** *
Urine Drug Screening: A Valuable Office Procedure  
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[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2815025/?tool=pubmed](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2815025/?tool=pubmed)

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Commonly prescribed medications and potential false-positive urine drug screens.  
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Testing for cannabis in the work-place: a review of the evidence.  
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Quantitation of Total 11-Nor-9-Carboxy-Delta 9-Tetrahydrocannabinol in Urine and Blood Using Gas Chromatography-Mass Spectrometry (GC-MS).  
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Detection of cannabigerol and its presumptive metabolite in human urine after Cannabis consumption.  
[abst - 2010]  

Screening for the synthetic cannabinoid JWH-018 and its major metabolites in human doping controls.  
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Now, There's a Test for That -- Norchem's "Fake Marijuana" Test Reveals Significantly Increased Abuse of Spice/K2  
[news - 2010]  

Liquid chromatography-tandem mass spectrometry analysis of urine specimens for K2 (JWH-018) metabolites.  
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Quantitative measurement of JWH-018 and JWH-073 metabolites excreted in human urine.  
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Unresolved Discrepancies between Cannabinoid Test Results for Infant Urine (full – 2012) http://www.clinchem.org/content/58/9/1364.full


Baby Soaps and Shampoos Trigger Positive Marijuana Tests  (news – 2012)
http://healthland.time.com/2012/06/19/baby-soaps-and-shampoos-trigger-positive-marijuana-tests/#ixzz211E9aaJD

Cannabinoids, Breast Milk, and Development  (news – 2012)

Broncos Linebacker Failed Two Drug Tests By Providing 'Non-Human Urine'
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Qualitative Confirmation of 9 Synthetic Cannabinoids and 20 Metabolites in Human Urine Using LC-MS/MS and Library Search.  (full – 2013)
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In Vitro Stability of Free and Glucuronidated Cannabinoids in Blood and Plasma Following Controlled Smoked Cannabis.  (full – 2013)
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Impact of enzymatic and alkaline hydrolysis on CBD concentration in urine.  (full – 2013)  
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Validation of a Novel Immunoassay for the Detection of Synthetic Cannabinoids and Metabolites in Urine Specimens.  (abst – 2013)

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An in vitro experiment on the interaction of charcoal or wheat bran with 11-nor-9-carboxy-Δ9-tetrahydrocannabinol and its glucuronide.  (abst – 2013)

Urinary Cannabinoid Disposition in Occasional and Frequent Smokers: Is THC-Glucuronide in Sequential Urine Samples a Marker of Recent Use in Frequent Smokers?
Detection of urinary metabolites of AM-2201 and UR-144, two novel synthetic cannabinoids. 

Analysis of AM-2201 and metabolites in a drugs and driving case 

Simultaneous quantification of 20 synthetic cannabinoids and 21 metabolites, and semi-quantification of 12 alkyl hydroxy metabolites in human urine by liquid chromatography-tandem mass spectrometry. 

Exercise increases plasma THC concentrations in regular cannabis users. 


Study: Imposition Of Per Se Limits For Drugs Don't Reduce Traffic Deaths 
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UFC Raises Marijuana Testing Threshold 

Utility of ELISA screening for the monitoring of abstinence from illegal and legal drugs in hair and urine. 

Can Physical Exercise or Food Deprivation Cause Release of Fat-Stored Cannabinoids? 

In vitro stability of free and glucuronidated cannabinoids in urine following controlled smoked cannabis. 
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LC-QTOF-MS as a superior strategy to immunoassay for the comprehensive analysis of synthetic cannabinoids in urine. 

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Evaluation of a homogenous enzyme immunoassay for the detection of synthetic cannabinoids in urine. 


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Non-smoker exposure to secondhand cannabis smoke. I. Urine screening and confirmation results. (full – 2015) http://jat.oxfordjournals.org/content/39/1/1.long

**DRUG TESTING – WASTEWATER/ SEWAGE**

The current status of community drug testing via the analysis of drugs and drug metabolites in sewage  (full – 2011)

Evaluation of drugs of abuse use and trends in a prison through wastewater analysis. (abst – 2011)

Evaluation of the presence of drugs of abuse in tap waters.  (abst – 2011)

Profiles of illicit drug use during annual key holiday and control periods in Australia: wastewater analysis in an urban, a semi-rural and a vacation area.  (abst – 2012)

Investigation of drugs of abuse and relevant metabolites in Dutch sewage water by liquid chromatography coupled to high resolution mass spectrometry.  (abst – 2012)

Using biomarkers in wastewater to monitor community drug use: A conceptual approach for dealing with new psychoactive substances.  (abst – 2013)

Illicit and abused drugs in sewage sludge: Method optimization and occurrence.  (abst – 2013)


Using quantitative wastewater analysis to measure daily usage of conventional and emerging illicit drugs at an annual music festival. (abst – 2013)

Analysis of new classes of recreational drugs in sewage: Synthetic cannabinoids and amphetamine-like substances.  (full – 2014)

Improvements in analytical methodology for the determination of frequently consumed illicit drugs in urban wastewater.  (abst – 2014)


**DUPUYTREN’S CONTRACTURE**


**DYSKINESIA +**

The effects of cannabinoid drugs on abnormal involuntary movements in dyskinetic and non-dyskinetic 6-hydroxydopamine lesioned rats. (abst – 2010)  

Tardive Dystonia and the Use of Cannabis (letter/forum repost - 2010)  

Effects of cannabinoid CB(1) receptor agonism and antagonism on SKF81297-induced dyskinesia and haloperidol-induced dystonia in Cebus apella monkeys. (abst – 2011)  

Association study of Cannabinoid receptor 1 (CNR1) gene in tardive dyskinesia (abst - 2011)  

The effects of cannabinoid drugs on abnormal involuntary movements in dyskinetic and non-dyskinetic 6-hydroxydopamine lesioned rats. (abst – 2011)  

The cannabinoid agonist WIN55212-2 decreases l-DOPA-induced PKA activation and dyskinetic behavior in 6-OHDA-treated rats. (full – 2012)  
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Oleylethanolamide reduces L-DOPA-induced dyskinesia via TRPV1 receptor in a mouse model of Parkinson´s disease. (abst – 2013)  

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Cannabinoids: New Promising Agents in the Treatment of Neurological Diseases (link to PDF – 2014)  
[http://www.mdpi.com/1420-3049/19/11/18781](http://www.mdpi.com/1420-3049/19/11/18781)

Genome-wide microarray analysis identifies a potential role for striatal retrograde endocannabinoid signaling in the pathogenesis of experimental L-DOPA-induced dyskinesia. (abst – 2014)  

Anandamide attenuates haloperidol-induced vacuous chewing movements in rats (abst – 2014)  
Genome-wide microarray analysis identifies a potential role for striatal retrograde endocannabinoid signaling in the pathogenesis of experimental L-DOPA-induced dyskinesia (abst – 2014)  

Activation of PPAR gamma receptors reduces levodopa-induced dyskinesias in 6-OHDA-lesioned rats. (abst – 2014)  

**DYSTONIA +**

Dronabinol for the treatment of unspecific pain, restlessness and spasticity in neuropaediatrics (abst – 2010)  

Tardive Dystonia and the Use of Cannabis (letter/ forum repost - 2010)  

Effects of cannabinoid CB(1) receptor agonism and antagonism on SKF81297-induced dyskinesia and haloperidol-induced dystonia in Cebus apella monkeys. (abst – 2011)  

Medical cannabis: the opportunity versus the temptation (abst – 2011)  

Marijuana Saved My Life: An Abbreviated Dope Diary (news – 2014)  

**EBOLA**

CBD Protective Against Ebola Virus (article – 2014)  
http://cannabisdigest.ca/cbd-protective-ebola-virus/

**ECZEMA +**

Hemp Oil Benefits for Skin (news – 2010)  
http://www.livestrong.com/article/137621-hemp-oil-benefits-skin/
Hemp Seed Oil for Skin  (news – 2010)
http://www.livestrong.com/article/340189-hemp-seed-oil-for-skin/

The Cannabis Closet: Severe Eczema  (anecdotal - 2010)
http://andrewsullivan.theatlantic.com/the_daily_dish/2010/05/the-cannabis-closet-severe-eczema.html

Hemp Seed Oil For Eczema – Cures From The Inside Out  (news/ anecdotal – 2012)

Epigenetic Control of Skin Differentiation Genes by Phytocannabinoids  (abst – 2013)

EDEMA +*


The cannabinoid receptor-2 is involved in allergic inflammation  (abst – 2012)

Using the endocannabinoid system as a neuroprotective strategy in perinatal hypoxic-ischemic brain injury.  (full – 2013)
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Activation of cortical type 2 cannabinoid receptors ameliorates ischemic brain injury  (news – 2013)  http://www.sciencedaily.com/releases/2013/02/130221141140.htm

Cannabinoid Trans-Caryophyllene Protects Brain Cells From Ischemia  (news – 2013)
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Cannabinoid type 2 receptor stimulation attenuates brain edema by reducing cerebral leukocyte infiltration following subarachnoid hemorrhage in rats.  (abst – 2014)

Peripheral neurobiologic mechanisms of antiallodynic effect of warm water immersion therapy on persistent inflammatory pain. (abst – 2014)

Cannabinoid CB2 receptor stimulation attenuates brain edema and neurological deficits in a germinal matrix hemorrhage rat model. (abst – 2015)

**EHLERS-DANLOS SYNDROME** +

Ehlers-Danlos Syndrome (anecdotal/news- 2010)
http://andrewsullivan.theatlantic.com/the_daily_dish/2010/05/the-cannabis-closet-chronic-joint-pain.html

The Cannabis Closet: Chronic Joint Pain (anecdotal/news- 2010)

Schneider: Lansing mom says son’s legal marijuana use unfairly stigmatized (anecdotal/news - 2010)

Medicinal Marijuana: A Patient-Driven Phenomenon (anecdotal/news - 2010)

Patient’s Corner - Pat Cavanaugh (p. 4 - anecdotal/news - 2011)

Panelists debate state of medical marijuana in RI (news – 2012)
http://www.browndailyherald.com/2012/04/05/panelists-debate-state-of-medical-marijuana-in-ri/

I Was Totally Against Drug Use Until I Needed Medical Marijuana (news – 2012)

**ENCEPHALITIS** +

A synthetic cannabinoid agonist promotes oligodendrogliogenesis during viral encephalitis in rats (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2981070/?tool=pubmed
Cannabidiol reduces lipopolysaccharide-induced vascular changes and inflammation in the mouse brain: an intravital microscopy study  
(full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3034694/?tool=pmcentrez

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(full – 2011)  
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Gadolinium-HU-308-incorporated micelles.  
(full – 2011)  

Prospects for cannabinoid therapies in viral encephalitis.  
(abst – 2013)  

**ENCEPHALOMYELITIS/ EAE** +* - a mouse model for multiple sclerosis

Cannabinoids and B cells: emerging targets for treating progressive multiple sclerosis  
(full – 2011)  
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Endocannabinoid pathways and their role in multiple sclerosis-related muscular dysfunction.  
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Administration of 2-arachidonoylglycerol ameliorates both acute and chronic Experimental Autoimmune Encephalomyelitis  
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Evaluation of the Effects of Sativex (THC BDS: CBD BDS) on Inhibition of Spasticity in a Chronic Relapsing Experimental Allergic Autoimmune Encephalomyelitis: A Model of Multiple Sclerosis.  
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Cannabinoid receptor-2-selective agonists improve recovery in experimental autoimmune encephalomyelitis  
(abst – 2012)  
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Cannabinoids ameliorate disease progression in a model of multiple sclerosis in mice, acting preferentially through CB(1) receptor-mediated anti-inflammatory effects.  
(abst - 2012)  

Cannabinoid receptor 2 agonists inhibit migration of activated dendritic cells via modulation of MMP-9  
(abst – 2012)
Genetic Background Can Result in a Marked or Minimal Effect of Gene Knockout (GPR55 and CB2 Receptor) in Experimental Autoimmune Encephalomyelitis Models of Multiple Sclerosis. (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0076907

Multiple sclerosis and the blood-central nervous system barrier. (full – 2013)  
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Cannabidiol provides long-lasting protection against the deleterious effects of inflammation in a viral model of multiple sclerosis: A role for A2A receptors. (full – 2013)  

Selective CB2 receptor activation ameliorates EAE by reducing Th17 differentiation and immune cell accumulation in the CNS. (abst – 2013)  

R-flurbiprofen attenuates experimental autoimmune encephalomyelitis in mice. (full – 2014)  
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A cannabigerol derivative suppresses immune responses and protects mice from experimental autoimmune encephalomyelitis. (full – 2014)  
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Pre- and postsynaptic type-1 cannabinoid receptors control the alterations of glutamate transmission in experimental encephalomyelitis. (abst – 2014)  

Activating Cannabinoid Receptor 2 Alleviates Pathogenesis of Experimental Autoimmune Encephalomyelitis Via Activation of Autophagy and Inhibiting NLRP3 Inflammasome. (abst – 2014)  

Neuroprotection in Experimental Autoimmune Encephalomyelitis and Progressive Multiple Sclerosis by Cannabis-Based Cannabinoids. (abst – 2014)  

Interaction between the protective effects of cannabidiol and palmitoylethanolamide in experimental model of multiple sclerosis in C57BL/6 mice (abst – 2015)  
**ENDOMETRIOSIS** +

Antiproliferative effects of cannabinoid agonists on deep infiltrating endometriosis. (full - 2010) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2993285/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2993285/)


The molecular connections between the cannabinoid system and endometriosis (full – 2012) [http://molehr.oxfordjournals.org/content/18/12/563.full](http://molehr.oxfordjournals.org/content/18/12/563.full)

Progesterone-dependent regulation of endometrial cannabinoid receptor type 1 (CB1-R) expression is disrupted in women with endometriosis and in isolated stromal cells exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). (full – 2012) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3462249/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3462249/)


**ENTOURAGE EFFECT**- located in PHYTOCANNABINOIDS & ENDOCANNABINOIDS sections
EPILEPSY/ SEIZURES  

Cannabidiol Displays Antiepileptiform and Antiseizure Properties In Vitro and In Vivo  
(full - 2010)  
[link](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2819831/?tool=pmcentrez)

Cannabinoid-mediated inhibition of recurrent excitatory circuitry in the dentate gyrus in a mouse model of temporal lobe epilepsy.  
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AAV vector-mediated overexpression of CB1 cannabinoid receptor in pyramidal neurons of the hippocampus protects against seizure-induced excitotoxicity.  
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[link](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3006205/?tool=pubmed)

Delta-Tetrahydrocannabinol suppresses in vitro epileptiform and in vivo seizure activity in adult rats.  
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Dynamic changes of CB1-receptor expression in hippocampi of epileptic mice and humans.  
(full – 2010)  
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CB1 and CB2 cannabinoid receptor expression during development and in epileptogenic developmental pathologies.  
(abst – 2010)  
[link](http://www.ncbi.nlm.nih.gov/pubmed/20621164)

Marijuana, autism, and failure: a true story  
(news – 2010)  
[link](http://www.alexneedshelp.com/marijuana-autism-and-failure-a-true-story#.VOBDOC74Y5w)

Endocannabinoid system protects against cryptogenic seizures.  
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[link](http://www.if-pan.krakow.pl/pjp/pdf/2011/1_165.pdf)

Redistribution of CB1 Cannabinoid Receptors in the Acute and Chronic Phases of Pilocarpine-Induced Epilepsy  
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[link](http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0027196)

In vivo activation of endocannabinoid system in temporal lobe epilepsy with hippocampal sclerosis.  
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**IBUPROFEN** – blocks the breakdown of anandamide (which is what actually relieves your pain)


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**IDRASIL** – a natural, phytocannabinoid pill, only available in California by doctor’s recommendation

Introducing Idrasil - The Marijuana Pill  (ad – undated)  [http://idrasil.info/](http://idrasil.info/)


**IMMUNE SYSTEM**

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MEIGE'S SYNDROME – see Pre-2000 list

MEMORY- see IQ/ MEMORY/ COGNITIVE EFFECTS

MENIERE'S SYNDROME +

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MENINGITIS *

Cannabidiol reduces host immune response and prevents cognitive impairments in Wistar rats submitted to pneumococcal meningitis  (full – 2012)

MENOPAUSE +* - also see AGING, GYNOCOLOGY

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Smoking Concentrated Marijuana, Known as Dabbing, Is All the Rage  (news – 2014)  

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METHODS OF USE – DECARBOXYLATION + – a method to increase potency

How To Make Your Own Canna Caps  (news – 2011)  
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How-to: Paleo’s Potent http://www.inquisitr.com/14068/your-breath-smells-minty-marijuana-fresh/ Cannabis Oil (Edibles Technique)  
(forum post – 2011)  

Controlled cannabis decarboxylation - Patent US2012046352 (A1) — 2012-02-23  
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Cannabis Decarboxylation – THC Preparation for Unheated Edibles  (news – 2012)

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E-Cigarettes: A How-To With Canna  (forum post - 2010)

Are E-Cigarettes the Perfect Disguise to Smoke Pot in Public?  (news – 2013)

More People Using E-Cigarettes to Smoke Marijuana  (news – 2013)

Build Your Own Cheap Hash Oil Pen Using E-Cigarette Parts – Refinement  (news – 2013)
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Vaporizers, e-cigs of the pot world, are booming  (news – 2014)
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Teens smoking highly potent 'dabs' or 'earwax' with e-cigarettes  (news – 2014)


**METHODS OF USE – EDIBLES –GENERAL USE** + *

Cannabis as a Unique Functional Food  (full – 2011)
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Terpenes (news – 2011)

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Beyond Pot Brownies: The New Cannabis Cuisine (news – 2012)

Legalized Pot: Smoke It or Eat It? (news – 2012)

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An Introduction To Marijuana Edibles: What You Should Know About Ingesting Cannabis (news – 2013)
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Coffee and ganja provide a healthy income in Aceh  (news – 2015)

METHODS – EDIBLES - BEVERAGES – OTHER +*

How Is Hemp Seed Milk Made?  (article – 2010)
Form of medical marijuana won't get you high, but it's creating a buzz  (news - 2010)
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Juiced Marijuana Offered to Medical Users as Alternative to Smoking  (news - 2010)
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Cannabis Decarboxylation – THC Preparation for Unheated Edibles  (news – 2012)

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How-To Make A Cannabis Infused Blueberry Banana Smoothie  (news – 2014)

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Coffee and ganja provide a healthy income in Aceh  (news – 2015)

METHODS - EDIBLES- BEVERAGES - CANNABIS TEA  *+

Health Benefits of Cannabis Tea  (news – 2011)
How To Make Marijuana-Infused Tea   (news – 2014)
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Cannabis Oil : chemical evaluation of an upcoming cannabis based medicine

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Cooking with Cannabis: How to Make Weed Butter   (news – 2014)
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METHODS - EDIBLES - RAW UNHEATED CANNABIS JUICE +

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The Amazing Health Benefits of Juicing Raw Cannabis Leaves  (news – 2012)  

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How To Make Canna Oil  (recipe - undated)  
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Cannabutter In 7 Easy Steps! (forum thread/recipe-2005)

Cooking with Cannabis (article-2008)

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Cannabis Cooking Tips From Uncle Buck (article-2010)

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Recipes that can make some lives easier; Cannabis Barbeque Sauce (recipe-2010)

Ask Old Hippie: What Can I Do With Marijuana Cooking Oil? (article-2010)

Anchovy red wine vinegarette with or without cannabis oil (recipe-2011)

BadKat's CannaPharm: Canna Caps, UV Reactive GLOWING Hash Candy, Canna 'Bombs' & more (forum post/collection-2011)

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**METHODS OF USE – INHALERS +**


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Cannabis in the arm: what can we learn from intravenous cannabinoid studies? (abst – 2012)

How Cannabis Causes Paranoia: Using the Intravenous Administration of Δ9-Tetrahydrocannabinol (THC) to Identify Key Cognitive Mechanisms Leading to Paranoia. (full – 2014) http://schizophreniabulletin.oxfordjournals.org/content/early/2014/07/01/schbul.sbu098.long


METHODS OF USE – MICRO-ENCAPSULATION
METHODS OF USE - NANOPLATFORMS


METHODS OF USE - NASAL SPRAYS +


METHODS OF USE – RSO / RICK SIMPSON’S OIL/ HEMP OIL/ PHOENIX OIL +

The Illegal Herb that Fights Cancer  (news - 2011)  http://www.cannabisculture.com/v2/node/27122


Tommy Chong Fighting Prostate Cancer With Cannabis Oil  (news – 2012)  http://www.cannabisculture.com/content/2012/06/10/Tommy-Chong-Fighting-Prostate-Cancer-Cannabis-Oil

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Cannabis For Infant’s Brain Tumor, Doctor Calls Child "A Miracle Baby"  
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Marijuana Helped Teen Fight Leukemia, Say Doctors  
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"Miracle" Cannabis Oil: May Treat Cancer, But Money and the Law Stand in the Way of Finding Out  
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Checotah Man Credits Cannabis Oil For Improved Health  
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Cannabis Extract Fights 'Incurable Form' of Leukemia  (news – 2014)
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METHODS OF USE – SECOND-HAND SMOKE +


Non-smoker exposure to secondhand cannabis smoke. I. Urine screening and confirmation results.  (full – 2015)  http://jat.oxfordjournals.org/content/39/1/1.long

METHODS OF USE - SMOKING +* - also see SMOKED CANNABIS AS MEDICINE

Smoked cannabis for chronic neuropathic pain: a randomized controlled trial  
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Disposition of smoked cannabis with high Delta(9)-tetrahydrocannabinol content: A kinetic model.  (abst – 2010)
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Study Claims Cannabis Reduces Chronic Pain  (news - 2010)

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Pot smoking not tied to middle-age mental decline (news – 2012) http://www.reuters.com/article/2012/01/04/us-drugs-idUSTRE8030AE20120104


Comparison of cannabinoid concentrations in oral fluid and whole blood between occasional and regular cannabis smokers prior to and after smoking a cannabis joint. (abst – 2013) [http://www.ncbi.nlm.nih.gov/pubmed/24202191]


Why Research is Right About Smoking vs. Eating Medicinal Marijuana (news – 2013) [http://www.wakingtimes.com/2013/05/15/why-research-is-right-about-smoking-vs-eating-medicinal-marijuana/]

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METHODS OF USE - TOPICAL OINTMENTS +

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Low-Dose Vaporized Cannabis Significantly Improves Neuropathic Pain.  

Tailoring Your High: Intro to Temperature Control With a Vaporizer  

Capsule Warning: The AVB Experiment That Went Wrong  

California pot research backs therapeutic claims  

Simple Method: Isolating & Extracting INDIVIDUAL Cannabinoids... from BadKittySmiles  


The Best Temperature For A Vaporizer Is ... (news – 2013)  

The Advantages of Vaporizing Medical Marijuana  

Study: Vaporized, Low-Potency Cannabis Mitigates Neuropathic Pain
New Study: Vaporized Marijuana is a Safe and Effective Pain Treatment  (news – 2013)

Dermatologists: Marijuana Can Improve Your Skin, But Not If You Smoke It  (news – 2013)

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**OBSESSIVE COMPULSIVE DISORDER/ OCD +**


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OLDER ADULT CANNABIS USERS +

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Dealing with age  

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also see NUTRITION – HEMP SEED OIL, CBR- CB1 RECEPTORS

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Research provides new clues to understand link between deficits of AGPO-3, depression (news – 2011)

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OMEA-6/ENDOCANNABINOID CONNECTION + some endocannabinoids are made from Omega 6, you need it, but it is also pro-inflammatory, so too much is not good for you. Most folks get too much.

Exposure to a high-fat diet decreases sensitivity to Δ9-tetrahydrocannabinol-induced motor effects in female rats (full - 2010)  
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All You Need to Know About Hemp Seeds (news – 2013)

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Potential Oil Yield, Fatty Acid Composition, and Oxidation Stability of the Hempseed Oil from Four Cannabis sativa L. Cultivars. (abst – 2014)


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A cannabinoid 2 receptor agonist attenuates bone cancer-induced pain and bone loss. (full - 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2871326/


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The Type 2 Cannabinoid Receptor Regulates Bone Mass and Ovariectomy-Induced Bone Loss by Affecting Osteoblast Differentiation and Bone Formation (full – 2011)
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The endovanilloid/endocannabinoid system: A new potential target for osteoporosis therapy.  

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Cannabinoids: novel therapies for arthritis?  

Magnolol Ameliorates Ligature-Induced Periodontitis in Rats and Osteoclastogenesis: In Vivo and In Vitro Study  
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Type-2 cannabinoid receptor regulates proliferation, apoptosis, differentiation, and OPG/RANKL ratio of MC3T3-E1 cells exposed to Titanium particles. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/25292314


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OVARIAN CYSTS +

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OVERDOSES on CANNABINOIDS +* - also see CANNABINOID HYPEREMESIS, SPICE

Information for Health Care Professionals- Marihuana (marijuana, cannabis) dried plant for administration by ingestion or other means (Health Canada) (full – 2010)

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Pregnenolone can protect the brain from cannabis intoxication. (full – 2014)  
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Hormone shows promise at negating marijuana's high effect (news – 2014)  

Why Eating A Marijuana Candy Bar Sent Maureen Dowd To Paranoia Hell (news – 2014)  

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Information for Health Care Professionals- Marihuana (marijuana, cannabis) dried plant for administration by ingestion or other means (Health Canada) (full – 2010)  

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POISONING – HEAVY METAL +*

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**POISONING – ORGANOPHOSPHATE** +


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**PORPHYRIA +**


**POST-OPERATIVE PAIN +**

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POTENCY/ THE “HIGH” +*

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Psychiatric adverse effects of rimonobant in adults with Prader Willi syndrome.
(full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3038245/

PREGNANCY/ PRENATAL EXPOSURE  +*  - also see PERINATAL HYPOXIC-ISCHEMIC INJURY, CHILDREN


N-Acylethanolamine Levels and Expression of Their Metabolizing Enzymes during Pregnancy  (full – 2010)  http://endo.endojournals.org/content/151/8/3965.full


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A common variation in the cannabinoid 1 receptor (CNR1) gene is associated with preeclampsia in the Central European population.  (abst - 2010)  http://www.ncbi.nlm.nih.gov/pubmed/21129839
Characteristics of pregnant illicit drug users and associations between cannabis use and perinatal outcome in a population-based study (abst - 2010)

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Pregnant Women Smoking Pot Could Reduce Infant Mortality (news - 2010)
http://www.opposingviews.com/i/pregnant-women-smoking-pot-could-reduce-infant-mortality

Pregnant women turning to cannabis for morning sickness relief risk prosecution (news - 2010)
http://michigandispensaries.us/news/pregnant-women-turning-to-cannabis-for-morning-sickness-relief-risk-prosecution

When Getting Baked Means More than Just a Bun in the Oven (news – 2010)

Scientific Opinion on the safety of hemp (Cannabis genus) for use as animal feed (full – 2011) (deceptive title)

Sex difference in cell proliferation in developing rat amygdala mediated by endocannabinoids has implications for social behavior (full – 2011)
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Prenatal tobacco, marijuana, stimulant, and opiate exposure: outcomes and practice implications. (full – 2011)
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The role of sex steroid hormones, cytokines and the endocannabinoid system in female fertility. (full – 2011)
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Medical Marijuana: Can Pot Help Pregnant Women With Vomiting and Nausea? (article – 2011)

Cannabinoid hyperemesis syndrome: an underreported entity causing nausea and vomiting of pregnancy. (abst – 2011)

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Endocannabinoid signaling in female reproduction. (full – 2012)  
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Ectopic pregnancy is associated with high anandamide levels and aberrant expression of FAAH and CB1 in fallopian tubes. (full – 2012)  

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Acetaminophen, pesticide, and diethylhexyl phthalate metabolites, anandamide, and fatty acids in deciduous molars: potential biomarkers of perinatal exposure. (abst – 2012)  

Cannabinoid modulation of mother-infant interaction: is it just about milk? (abst – 2012)  

Researchers study neuroprotective properties in cannabis (news - 2012)  
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Detection of In Utero Marijuana Exposure by GC–MS, Ultra-Sensitive ELISA and LC–TOF–MS Using Umbilical Cord Tissue (full – 2013)  
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Embryonic diapause in humans: time to consider? (full – 2013)  
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Synthetic cannabinoids and potential reproductive consequences. (abst – 2013)

Endocannabinoid receptor (CB1R) deficiency affects maternal care and alters the dam’s hippocampal oxytocin receptor and BDNF expression (abst – 2013)


The Effect of Mifepristone (RU486) on the Endocannabinoid System in Human Plasma and First Trimester Trophoblast of Women undergoing Termination of Pregnancy. (abst – 2013)

Differential expression of endocannabinoid system in normal and preeclamptic placentas: effects on nitric oxide synthesis. (abst - 2013)

Increased placental expression of cannabinoid receptor 1 in preeclampsia: an observational study. (full – 2014)

Endocannabinoids as biomarkers of human reproduction. (abst – 2014)

Endocannabinoid Regulation in Human Endometrium Across the Menstrual Cycle (abst – 2014) http://rsx.sagepub.com/content/early/2014/05/09/1933719114533730.abstract
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PROMM/ PROXIMAL MYOTONIC MYOPATHY – see 2000-2009

PRIONS +

Alteration of the Endocannabinoid System In Mouse Brain During Prion Disease. (abst – 2011)
PROSTATIC HYPERPLASIA/ BPH/ ENLARGED PROSTATE GLAND +

Transient receptor potential A1 and cannabinoid receptor activity in human normal and hyperplastic prostate: relation to nerves and interstitial cells  (abst – 2010)  


Stimulation of cannabinoid receptors by using Rubus coreanus extracts to control osteoporosis in aged male rats.  (abst – 2014)  http://www.ncbi.nlm.nih.gov/pubmed/25136745


PRURITIS + - chronic itch

The Management of Chronic Pruritus in the Elderly  (full – 2010)  
http://www.skintherapyletter.com/2010/15.8/2.html


Differences in peripheral endocannabinoid modulation of scratching behavior in facial vs. spinally-innervated skin.  (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3394407/

Palmitoylethanolamide is a new possible pharmacological treatment for the inflammation associated with trauma. (abst – 2012) 

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Palmitoylethanolamide is a New Possible Pharmacological Treatment for the Inflammation Associated with Trauma (abst – 2013) 
http://www.eurekaselect.com/106175/article

Understanding itch: An update on mediators and mechanisms of pruritus. (full – 2014)  
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**PSORIASIS**


Cannabinoid Treatment for Psoriasis Symptoms  (article – 2012)
http://medicalmarijuana.com/medical-marijuana-treatments/Psoriasis

Cannabis cures psoriasis  (forum post/anecdotal – 2012)


Dermatologists: Marijuana Can Improve Your Skin, But Not If You Smoke It  (news – 2013)

Effect of narrowband ultraviolet B treatment on endocannabinoid plasma levels in psoriasis patients.  (abst – 2014)


QUITTING CANNABIS +*  also see ADDICTION, WITHDRAWAL

Aerobic Exercise Training Reduces Cannabis Craving and Use in Non-Treatment Seeking Cannabis-Dependent Adults  (full – 2011)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3050879/?tool=pmcentrez

Cure for the Munchies? Exercise Cuts Marijuana Cravings  (news – 2011)

Exercise can reduce cannabis use in persons who don’t want to stop  (news – 2011)

A Double-Blind Randomized Controlled Trial of N-Acetylcysteine in Cannabis-Dependent Adolescents.  (full – 2012)
http://ajp.psychiatryonline.org/article.aspx?articleID=1184217&resultClick=1


A proof-of-concept randomized controlled study of gabapentin: effects on cannabis use, withdrawal and executive function deficits in cannabis-dependent adults.  (full – 2012)


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A Randomized Double-blind, Placebo Controlled Trial of Venlafaxine-Extended Release for Co-occurring Cannabis Dependence and Depressive Disorders (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3636166/

Nabilone decreases marijuana withdrawal and a laboratory measure of marijuana relapse. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3682150/


Use of micronutrients attenuates cannabis and nicotine abuse as evidenced from a reversal design: a case study  (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23909004


Baclofen in the management of cannabis dependence syndrome.  (full – 2014)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3896138/


Cigarette smoking during an N-acetylcysteine-assisted cannabis cessation trial in adolescents.  (full – 2014)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4118750/


Pregnenolone can protect the brain from cannabis intoxication.  (full – 2014)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4057431/


QUITTING OTHER DRUGS +*


Attenuation of morphine antinociceptive tolerance by a CB(1) receptor agonist and an NMDA receptor antagonist: Interactive effects. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2813317/?tool=pubmed


Study shows direct cellular interaction between endocannabinoids and alcohol in the brain  

Refractory CRPS Patients Discontinue Opiates With Cannabinoid Treatment  
(news –2010)  

Marijuana could be an “exit drug”  
(news/ forum repost - 2010)  

Endocannabinoid regulation of acute and protracted nicotine withdrawal: effect of FAAH inhibition.  
(full – 2011)  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3227620/?tool=pubmed)

Brain cannabinoid CB2 receptors modulate cocaine's actions in mice  
(full – 2011)  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3164946/)

The anandamide transport inhibitor AM404 reduces the rewarding effects of nicotine and nicot ine-induced dopamine elevations in the nucleus accumbens shell in rats  
(full – 2011)  

Pharmacological activation/inhibition of the cannabinoid system affects alcohol withdrawal-induced neuronal hypersensitivity to excitotoxic insults.  
(full – 2011)  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3158793/)

Study: Marijuana compound helps mitigate cocaine addiction in mice  
(news – 2011)  

Stimulation Of Marijuana Receptor Reduces Cocaine Consumption, Study Says  
(news – 2011)  
(http://norml.org/index.cfm?Group_ID=8639)

Why Medical Marijuana Laws Reduce Traffic Deaths  
(news - 2011)  
(http://healthland.time.com/2011/12/02/why-medical-marijuana-laws-reduce-traffic-deaths/)

Medical marijuana turns former soldier's life around  
(news – 2011)  

Can marijuana curb cocaine addiction?  
(news – 2011)  
(http://theweek.com/article/index/217709/can-marijuana-curb-cocaine-addiction)

Patients Substitute Marijuana for Prescription Drugs  
(news – 2011)  
Nicotine-induced anxiety-like behavior in a rat model of the novelty-seeking phenotype is associated with long-lasting neuropeptidergic and neuroplastic adaptations in the amygdala: Effects of the cannabinoid receptor 1 antagonist AM251.  (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3697052/

Cannabidiol inhibits the reward-facilitating effect of morphine: involvement of 5-HT(1A) receptors in the dorsal raphe nucleus.  (abst – 2012)  

AM404 attenuates reinstatement of nicotine seeking induced by nicotine-associated cues and nicotine priming but does not affect nicotine- and food-taking.  (full – 2013)  
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THC reduces the anticipatory nucleus accumbens response to reward in subjects with a nicotine addiction.  (full – 2013)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3590996/

Dual Inhibition of Endocannabinoid Catabolic Enzymes Produces Enhanced Anti-Withdrawal Effects in Morphine-Dependent Mice.  (full – 2013)  

Endocannabinoid system and drug addiction: new insights from mutant mice approaches.  (abst – 2013)  

Lipids and addiction: how sex steroids, prostaglandins, and cannabinoids interact with drugs of abuse.  (abst – 2013)  

Cannabinoid and opioid interactions: implications for opiate dependence and withdrawal.  (abst – 2013)  

Cannabidiol reduces cigarette consumption in tobacco smokers: Preliminary findings.  (abst – 2013)  

Impact of Cannabis Use during Stabilization on Methadone Maintenance Treatment.  (abst – 2013)  

Secret “Sober” Pot Smokers  (news – 2013)  
http://www.thefix.com/content/secret-%E2%80%9Csober%E2%80%9D-pot-users2030

Colombia’s controversial cure for coke addicts: Give them marijuana  (news – 2013)  
http://www.thestar.com/news/world/2013/06/03/colombias_controversial_cure_for_coke_addicts_give_the_m_marijuana.html

Man gets off painkillers with marijuana  (news – 2013)  

Can Marijuana Help You Quit Cigarettes? Study Says Yes  (news – 2013)  
http://www.leafscience.com/2013/11/01/can-marijuana-help-quit-cigarettes-study-says-yes/


Cigarette smoking during an N-acetylcysteine-assisted cannabis cessation trial in adolescents. (full – 2014) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4118750/

Can Cannabis be Considered a Substitute Medication for Alcohol? (abst – 2014) http://alcalc.oxfordjournals.org/content/early/2014/01/07/alcalc.agt182.abstract?sid=7dda1d62-04a2-4bd8-88c2-9ffe481614b5


RADIATION THERAPY +

Combined antiproliferative effects of the aminoalkylindole WIN55,212-2 and radiation in breast cancer cells.  (full – 2013)  http://jpet.aspetjournals.org/content/early/2013/11/20/jpet.113.205120.long


RADIATION SICKNESS


Tumor necrosis factor activation of vagal afferent terminal calcium is blocked by cannabinoids.  (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3342927/


REFLEX SYMPATHETIC DYSTROPHY +

**RELIGION and CANNABIS** +*

Comment on "Did Jesus use cannabis?"  (forum post – 2011)  
http://www.quora.com/Did-Jesus-use-cannabis/answer/Tim-ONeill-1/comment/278396

Shiva, lord of bhang.  (abst – 2012)  

Crumbs of comfort: Cannabis cookies are kosher for Passover  (news - 2012)  

Cannabis in the Holy Anointing Oil? "Exodus 30:23"  (article – 2013)  
http://freeanointing.org/cannabis_in_the_holy_oil.htm

Marijuana-Infused Faith Challenges the Definition of Religion  (news – 2013)  

The Official Recognition of Bob Marley’s Rastafarianism Gets Prison Inmates In Jovial Mood  (news – 2014)  

Holy Cannabis: The Bible Tells Us So  (news – 2014)  
http://www.huffingtonpost.com/jane-marcus-phd/holy-cannabis-the-bible-t_b_4784309.html

**RESTLESS LEG SYNDROME** – see 2000-2009

**RETINITIS PIGMENTOSA** +*

ABHD12 controls brain lysophosphatidylserine pathways that are deregulated in a murine model of the neurodegenerative disease PHARC.  (full – 2013)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3557017/

Neuroprotective effects of the cannabinoid agonist HU210 on retinal degeneration.  (abst – 2014)  

Exome sequencing extends the phenotypic spectrum for ABHD12 mutations: from syndromic to nonsyndromic retinal degeneration.  (abst – 2014)  

Study Shows THC In Cannabis May Help Delay Retinal Degeneration, Vision Loss  (news – 2014)
Rhabdomyolysis - the rapid break-down of muscle tissues

Psychosis and Severe Rhabdomyolysis Associated with Synthetic Cannabinoid Use. (abst – 2013)  

Severe rhabdomyolysis and intracranial hemorrhage associated with synthetic cannabinoid: a case report  (abst – 2014)  

SAFETY AS A MEDICINE +*

Information for Health Care Professionals- Marihuana (marijuana, cannabis) dried plant for administration by ingestion or other means (Health Canada)  (full – 2010)  

Drug Harms in the UK  (full - 2010)  

Harms associated with psychoactive substances: findings of the UK National Drug Survey  (abst - 2010)  
http://jop.sagepub.com/cgi/content/abstract/24/2/147?rss=1

Alcohol 'Most Harmful Drug', According to Multicriteria Analysis (news - 2010)  

A summary of the health harms of drugs - Section 5 Cannabis  (full – 2011)  

Annual Causes of Death in the United States  (article – 2011)  
http://drugwarfacts.org/cms/?q=node/30

Safety and Side Effects of Cannabidiol, a Cannabis sativa Constituent.  (abst - 2011)  
http://www.unboundmedicine.com/medline/ebm/record/22129319/abstract/Safety_and_Side_Effects_of_Cannabidiol_a_Cannabis_sativa_Constituent

Oregon's workplaces safest ever, despite 40,000 medical marijuana patients (news – 2011)  
Is Pot Good For You?  (news – 2011)  
http://www.maps.org/media/view/is_pot_good_for_you/

Prescribing Cannabis for Harm Reduction.  (full – 2012)  
http://www.harmreductionjournal.com/content/pdf/1477-7517-9-1.pdf

Medical Marijuana: Clearing Away the Smoke  (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3358713/

Acute effects of a single, oral dose of d9-tetrahydrocannabinol (THC) and cannabidiol (CBD) administration in healthy volunteers.  (abst – 2012)  

Evaluation of the safety and tolerability profile of Sativex: is it reassuring enough?  (abst – 2012)  

Synthetic cannabinoid and marijuana exposures reported to poison centers.  (abst – 2012)  

Study on Non-Psychotropic Cannabinoid Proves to be Safe in Humans  
(news – 2012)  

Is Medical Marijuana Safe for Children?  (news – 2012)  

Harms and benefits associated with psychoactive drugs: findings of an international survey of active drug users.  (full– 2013)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4107777/

The pharmacologic and clinical effects of medical cannabis.  (full – 2013)  

Anticipated Medical Effects on Children From Legalization of Marijuana in Colorado and Washington State  (abst + 1st page – 2013)  
http://archpedi.jamanetwork.com/article.aspx?articleid=1691419&resultClick=3

Endocannabinoid system modulator use in everyday clinical practice in the UK and Spain.  (abst – 2013)  

Physical harm due to chronic substance use.  (abst – 2013)  

Distinct pharmacology and metabolism of K2 synthetic cannabinoids compared to Δ9-THC: Mechanism underlying greater toxicity?  (abst – 2013)  
Exogenous cannabinoids as substrates, inhibitors, and inducers of human drug metabolizing enzymes: a systematic review. (abst – 2013)

Medical marijuana users don't have protections from sub-par pot (news – 2013)

Is Medical Marijuana Safe For Children and Adolescents? (news - 2013)
http://www.wakingtimes.com/2013/05/27/is-medical-marijuana-safe-for-children-and-adolescents/

No detectable association between frequency of marijuana use and health or healthcare utilization (news – 2013)

Marijuana has no adverse effects on health, BU study suggests (news – 2013)
http://dailyfreepress.com/2013/09/25/marijuana-has-no-adverse-effects-on-health-bu-study-suggests/

Study: Recreational Marijuana Users Show No ‘Negative Health Outcomes’ (news – 2013)
http://www.leafscience.com/2013/09/24/study-recreational-marijuana-users-show-negative-health-outcomes/

No detectable association between frequency of marijuana use and health or healthcare utilization (news – 2013)

Alcohol or Cannabis? No Question Which Substance Poses a Greater Risk to Health (news – 2013) http://www.huffingtonpost.com/paul-armentano/alcohol-or-cannabis_b_3799972.html

How Much Marijuana Does It Take For Someone To Overdose? (news – 2013)

Phytocannabinoids and epilepsy (full – 2014)

Prescribing smoked cannabis for chronic noncancer pain: Preliminary recommendations. (full – 2014)
http://www.cfp.ca/content/60/12/1083.long


Long-Term Effectiveness and Safety of Nabiximols (Tetrahydrocannabinol/Cannabidiol Oromucosal Spray) in Clinical Practice. (abst – 2014)

Re-branding cannabis: the next generation of chronic pain medicine? (abst – 2014)  

Scientists Explain Why Marijuana Users Never Overdose (news – 2014)  

Which is more dangerous: marijuana or alcohol? (news – 2014)  
http://www.abc15.com/dpp/news/local_news/water_cooler/which-is-more-dangerous-marijuana-or-alcohol

Poll: 47% in under-40 crowd say booze worse than weed (news – 2014)  

Cannabis conundrum: Evidence of harm?: Opposition to marijuana use is often rooted in arguments about the drug’s harm to children and adults, but the scientific evidence is seldom clear-cut (article – 2015)  

Comparative risk assessment of alcohol, tobacco, cannabis and other illicit drugs using the margin of exposure approach. (abst – 2015)  

SAFETY- ADULTERANTS/ CONTAMINANTS **

CUT, A Guide to the Adulterants, Bulking agents and other Contaminants found in illicit drugs (full – 2010)  

Contamination – Now we have some real evidence (news – 2010)  
http://ukcia.org/wordpress/?p=296

Medical marijuana tested for toxins and impurities (news - 2010)  

Too many mouldy joints - marijuana and chronic pulmonary aspergillosis. (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3103256/?tool=pubmed

Fatal alveolar haemorrhage following a "bang" of cannabis (abst – 2011)  
Talcum induced pneumoconiosis following inhalation of adulterated marijuana, a case report. (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3348083/

Can medical marijuana help rheumatoid arthritis?  (news – 2012)  

Determination of pesticide residues in cannabis smoke.  (full– 2013)  
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Hemoptysis in a young man smoking cannabis.  (abst – 2013)  

Medical marijuana users don't have protections from sub-par pot  (news – 2013)  

http://www.cnbc.com/id/100678723

Legalized marijuana states draft laws on purity of pot  (news – 2013)  

Marijuana Pesticide Contamination Becomes Health Concern As Legalization Spreads  (news – 2013)  
http://www.huffingtonpost.com/2013/05/24/marijuana-pesticides-contamination_n_3328122.html

Recurrent myopericarditis as a complication of Marijuana use.  (full – 2014)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3921097/


Inhaled medicinal cannabis and the immunocompromised patient.  (abst – 2014)  

Determination of Herbicides Paraquat, Glyphosate, and Aminomethylphosphonic Acid in Marijuana Samples by Capillary Electrophoresis.  (abst – 2014)  

Testing of Colorado marijuana for contaminants to begin this year  (news – 2014)  
http://gazette.com/testing-of-pot-for-contaminants-to-begin-this-year/article/1536213

SCHISTOSOMA INFECTION +
Effects of anandamide on proliferation of and pErk expression in primary hepatic stellate cells of schistosome-induced liver fibrosis mice (abst – 2013)

Upregulation of Cannabinoid Receptor-1 and Fibrotic Activation of Mouse Hepatic Stellate Cells during Schistosoma J. Infection: Role of NADPH Oxidase.

SCHIZOPHRENIA/ MENTAL DISORDERS +*

Do patients think cannabis causes schizophrenia? - A qualitative study on the causal beliefs of cannabis using patients with schizophrenia (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2954921/?tool=pmcentrez


Are cannabis use disorders associated with an earlier age at onset of psychosis? A study in first episode schizophrenia. (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2900481/?tool=pubmed

Therapeutical use of the cannabinoids in psychiatry (full – 2010)

A common polymorphism in the cannabinoid receptor 1 (CNR1) gene is associated with antipsychotic-induced weight gain in Schizophrenia. (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055343/?tool=pubmed


Endocannabinoids and Schizophrenia (link to PDF– 2010)
http://www.mdpi.com/1424-8247/3/10/3101


A behavioural comparison of acute and chronic Delta9-tetrahydrocannabinol and cannabidiol in C57BL/6JArc mice. (abst – 2010)
http://www.unboundmedicine.com/medline/ebm/record/19785914/abstract/A_behavioural_comparison_of_acute_and_chronic_Delta9_tetrahydrocannabinol_and_cannabidiol_in_C57BL/6JArc_mice


Alterations in Metabotropic Glutamate Receptor 1a and Regulator of G Protein Signaling 4 in the Prefrontal Cortex in Schizophrenia (news - 2010) http://ajp.psychiatryonline.org/article.aspx?articleID=102528&resultClick=1


Risk of suicide spurs rimonabant trial to end. (news – 2010) http://www.thefreelibrary.com/Risk+of+suicide+spurs+rimonabant+trial+to+end.-a0238838571

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**STORAGE of CANNABIS** (I know these are old, but questions on storage come up often!)


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Effects of cannabinoid receptor agonist WIN 55,212-2 on blood-brain barrier disruption in focal cerebral ischemia in rats. (abst – 2012)  

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Is the cardiovascular system a therapeutic target for cannabidiol? (full – 2013)  

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Nicotine-Induced Neuroprotection Against Ischemic Injury Involves Activation of Endocannabinoid System in Rats (abst – 2013)

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STUTTERING +

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SUICIDE +

Selective alterations of the CB1 receptors and the fatty acid amide hydrolase in the ventral striatum of alcoholics and suicides.  (full – 2010)
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Suicides in other trials led to early termination of trial into effects of weight loss drug rimonabant on cardiovascular outcomes (CRESCENDO study)  (news – 2010)
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**TASTE** +* - also see APPETITE

Modulation of sweet taste sensitivity by orexigenic and anorexigenic factors.

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Delta-9-tetrahydrocannabinol may palliate altered chemosensory perception in cancer patients: results of a randomized, double-blind, placebo-controlled pilot trial.
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Cannabis Ingredient Can Help Cancer Patients Regain Their Appetites and Sense of Taste, Study Finds (news – 2011)
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Characteristics of Cannabis sativa L.: seed morphology, germination and growth characteristics, and distinction from Hibiscus cannabinus L. (full - 2010)  
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Assessment of the Genetic Stability of Micropropagated Plants of Cannabis sativa by ISSR Markers (abst – 2010)  

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A real-time PCR assay for the relative quantification of the tetrahydrocannabinolic acid (THCA) synthase gene in herbal Cannabis samples (abst – 2011)  

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The validation of a 15 STR multiplex PCR for Cannabis species.  (abst – 2012)

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Development Of Marijuana Varieties To Produce Pharmaceuticals (news – 2012)
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U of S researchers discover cannabis 'pharma factory' (news – 2012)
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Scientists Make Breakthrough In Genetic Screening For Cannabis  (news – 2014)  
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Uruguay to track pot by genetic markers  (news – 2014)  
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Biohackers Are Engineering Yeast to Make THC  (news - 2014)  
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DNA Genetic’ L.A. Confidential strain used on childhood autism  (news – 2014)  
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What are ‘feminized’ marijuana seeds?  (news - 2015)  
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**TEETH /DENTISTRY**

Cannabinoid receptor CB1-immunoreactive nerve fibres in painful and non-painful human tooth pulp  (abst – 2010)  

Involvement of the endocannabinoid system in periodontal healing.  (abst - 2010)  

Activation of cannabinoid receptor CB2 regulates osteogenic and osteoclastogenic gene expression in human periodontal ligament cells.  (abst – 2010)  

Cannabinoid receptors in submandibular acinar cells: Functional coupling between saliva fluid and electrolytes secretion and Ca2+ signalling  (full – 2012)  
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Behavioral effects of pulp exposure in mice lacking cannabinoid receptor 2.  (abst – 2012)  


Magnolol Ameliorates Ligature-Induced Periodontitis in Rats and Osteoclastogenesis: In Vivo and In Vitro Study (full – 2013)  http://www.hindawi.com/journals/ecam/2013/634095/


**THALASSEMIA MAJOR** - an inherited form of anemia, with hemoglobin production abnormalities
Iron overload causes osteoporosis in Thalassemia Major patients through interaction with TRPV1 channels.  

**THROMBOCYTOPENIA**  
— see CHRONIC CHILDHOOD IMMUNE THROMBOCYTOPENIA

**THYROID FUNCTION**  
+  
— also see GRAVES DISEASE

Fatty acid amide hydrolase ablation promotes ectopic lipid storage and insulin resistance due to centrally mediated hypothyroidism.  

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Chronic cannabis abuse, delta-9-tetrahydrocannabinol and thyroid function.  

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**TIC DOULOUREUX/ TRIGEMINAL NEUROPATHIC PAIN**  
+

Neuropathic orofacial pain: Cannabinoids as a therapeutic avenue  

(abst – 2014)  

**TIME PERCEPTION**  
++

Regulation of the Hypothalamic-Pituitary-Adrenal Axis Circadian Rhythm by Endocannabinoids Is Sexually Diergic  

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Delta-9-Tetrahydrocannabinol Disruption of Time Perception and of Self-Timed Actions  

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The Effect of Cannabis on Perception of Time.  

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Acute effects of THC on time perception in frequent and infrequent cannabis users
**TINNITUS** + - also see HEARING

The effects of the synthetic cannabinoid receptor agonists, WIN55,212-2 and CP55,940, on salicylate-induced tinnitus in rats. (abst – 2010)

**TOBACCO and CANNABIS** +*

Uni-Morbid and Co-Occurring Marijuana and Tobacco Use: Examination of Concurrent Associations with Negative Mood States (full – 2010)
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Effects of cannabis on lung function: a population-based cohort study. (full - 2010)
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Disposition of smoked cannabis with high Delta(9)-tetrahydrocannabinol content: A kinetic model. (abst – 2010)


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Adding Tobacco to Cannabis--Its Frequency and Likely Implications. (abst – 2011)
Why doesn’t marijuana cause cancer? (news – 2011)

Differences Between Smoking Cigarettes & Marijuana (news – 2011)

Effects of a Selective Cannabinoid CB2 Agonist and Antagonist on Intravenous Nicotine Self Administration and Reinstatement of Nicotine Seeking. (full – 2012)
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Associations of Alcohol, Nicotine, Cannabis, and Drug Use/Dependence with Educational Attainment: Evidence from Cotwin-Control Analyses. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3412907/

Prevalence and co-use of marijuana among young adult cigarette smokers: An anonymous online national survey (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3507655/

The Volitional Nature of Nicotine Exposure Alters Anandamide and Oleoylethanolamide Levels in the Ventral Tegmental Area. (full – 2012)
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Patterns of blunt use among rural young adult african-american men. (full – 2012)
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Marijuana Smoke Not as Damaging as Tobacco, Says Study (news - 2012)

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Perception of tobacco, cannabis, and alcohol use of others is associated with one's own use (full – 2013) http://www.ascpjournal.org/content/8/1/15

The effects of caffeine, nicotine, ethanol, and tetrahydrocannabinol on exercise performance. (full – 2013) http://www.nutritionandmetabolism.com/content/10/1/71


Prior Exposure to THC Increases the Addictive Effects of Nicotine in Rats. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3656362/

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Does Legal Marijuana Help or Hurt the U.S. Health Care System?  
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Associations between cigarette smoking and cannabis dependence: A longitudinal study of young cannabis users in the United Kingdom.  
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Cannabis, tobacco smoking, and lung function: a cross-sectional observational study in a general practice population.  
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Comparative risk assessment of alcohol, tobacco, cannabis and other illicit drugs using the margin of exposure approach.  
(abst – 2015)  

**TOLERANCE**

Efficacy and tolerability of high-dose dronabinol maintenance in HIV-positive marijuana smokers: a controlled laboratory study.  
(abst – 2010)  
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Prolonged monoacylglycerol lipase blockade causes equivalent CB1-receptor mediated adaptations in FAAH wild type and knockout mice. (full – 2014) http://jp.et.aspetjournals.org/content/early/2014/05/21/jpet.114.212753.long


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Medical pot doesn’t lead to impaired driving (news – 2015)
http://www.abqjournal.com/524770/opinion/medical-pot-doesnt-lead-to-impaired-driving.html

TOURETTE'S SYNDROME +*

Oral Delta 9-tetrahydrocannabinol improved refractory Gilles de la Tourette syndrome in an adolescent by increasing intracortical inhibition: a case report. (abst - 2010)

Science: Cannabis effective in the treatment of TOURETTE Syndrome and attention deficit hyperactivity disorder (ADHD) (news – 2010)

A New Use for Medical Marijuana? (news – 2010)

Cannabinoids improve driving ability in a Tourette's patient. (news – 2011)

The Therapeutic Potential of Cannabis and Cannabinoids (full – 2012)
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Treatment of Tourette syndrome with cannabinoids. (link to PDF – 2012)
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Clinical pharmacology of nondopaminergic drugs in tourette syndrome. (abst – 2013)

Still Believe Nature Got It Wrong? Top 10 Health Benefits of Marijuana (news – 2013)
http://www.wakingtimes.com/2013/05/01/still-believe-nature-got-it-wrong-top-10-health-benefits-of-marijuana/

Interaction Between the Endocannabinoid and Serotonergic System in the Exhibition of Head Twitch Response in Four Mouse Strains. (abst – 2014)
**TRICHOTILLOMANIA** + - compulsive hair pulling – also see OBSESSIVE-COMPULSIVE DISORDER

Dronabinol, a cannabinoid agonist, reduces hair pulling in trichotillomania: a pilot study.  
(abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21590520/abstract/Dronabinol_a_cannabinoid_agonist_reduces_hair_pulling_in_trichotillomania:_a_pilot_study

Science: THC effective in trichotillomania symptoms in a pilot study  
(news – 2011)  

Pharmacotherapy of trichotillomania (hair pulling disorder): an updated systematic review.  
(abst – 2014)  

**TRIGEMINAL NEUROPATHIC PAIN** – SEE TIC DOULOUREUX

**TUBERCULOSIS** **+**

Marijuana 'bong' smoking and tuberculosis.  
(abst – 2013)  

**TUBEROUS SCLEROSIS** - a genetic disease causing non-malignant tumors in the brain and other organs, and retardation - also see AUTISM, EPILEPSY

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