Granny Storm Crow's List - January 2015

"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!"

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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'!)
http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1681626&tool=pmcentrez

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)
http://www.scribd.com/doc/50251051/ICRS2009-Pheasant-Run-Illinois

Endocannabinoid signaling and epidermal differentiation. (abst – 2011)
http://www.ncbi.nlm.nih.gov/pubmed/21628127

Cannabidiol exerts sebostatic and antiinflammatory effects on human sebocytes.
(full – 2014) http://www.jci.org/articles/view/64628

ACUPUNCTURE/ ELECTROACUPUNCTURE +

Involvement of ERK 1/2 activation in electroacupuncture pretreatment via cannabinoid CB1 receptor in rats. (abst – 2010) http://www.ncbi.nlm.nih.gov/pubmed/20654595

Electroacupuncture increases CB2 receptor expression on keratinocytes and infiltrating inflammatory cells in inflamed skin tissues of rats. (abst – 2010)
http://www.ncbi.nlm.nih.gov/pubmed/20627823

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

Effects of repeated electroacupuncture on gene expression of cannabinoid receptor-1 and dopamine 1 receptor in nucleus accumbens-caudate nucleus region in inflammatory-pain rats (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21585053

Electroacupuncture inhibits CB1 upregulation induced by ethanol withdrawal in mice. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22613131

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

Electroacupuncture inhibition of hyperalgesia in rats with adjuvant arthritis: involvement of cannabinoid receptor 1 and dopamine receptor subtypes in striatum. (full – 2013)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3677619/

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/

CB1 and CB2 contribute to antinociceptive and anti-inflammatory effects of electroacupuncture on experimental arthritis of the rat temporomandibular joint. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23181276

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

Acupuncture therapy for stroke patients. (abst – 2013)
http://www.ncbi.nlm.nih.gov/pubmed/24215922

Multimodal stepped care approach with acupuncture and PPAR-α agonist palmitoylethanolamide in the treatment of a patient with multiple sclerosis and central neuropathic pain. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22301508

Care and Feeding of the Endocannabinoid System: A Systematic Review of Potential Clinical Interventions that Upregulate the Endocannabinoid System. (full – 2014)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3951193/

Mn-SOD Upregulation by Electroacupuncture Attenuates Ischemic Oxidative Damage via CB1R-Mediated STAT3 Phosphorylation. (abst – 2014)
http://www.ncbi.nlm.nih.gov/pubmed/25432886

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 + *

Oral Delta 9-tetrahydrocannabinol improved refractory Gilles de la Tourette syndrome in an adolescent by increasing intracortical inhibition: a case report. (abst - 2010)
http://www.ncbi.nlm.nih.gov/pubmed/20520294

Why I Give My 9-Year-Old Pot, Part 3 (news - 2010) http://www.slate.com/id/2251174/

Dr. Jean Talleyrand Says Marijuana Safer than Ritalin for ADHD Teens (news – 2010)
http://spotlight.vitals.com/2010/01/dr-jean-talleyrand-says-marijuana-safer-than-ritalin-for-adhd-teens/

Science: Cannabis effective in the treatment of TOURETTE Syndrome and attention deficit hyperactivity disorder (ADHD) (news – 2010)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=323&search_pattern=tourette#2

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

Loss of striatal cannabinoid CB1 receptor function in attention-deficit/hyperactivity disorder mice with point-mutation of the dopamine transporter. (abst – 2011)
http://www.ncbi.nlm.nih.gov/pubmed/22034972

Why I Give My Autistic Son Pot, Part 4 (news – 2011)
http://www.slate.com/id/2294072/?from=rss

Why Omega-3s Affect Your Mood (news – 2011)
http://voices.yahoo.com/why-omega-3s-affect-mood-8180941.html?cat=5

Effects of amphetamine on dopamine release in the rat nucleus accumbens shell region depend on cannabinoid CB1 receptor activation. (abst – 2012)
http://www.ncbi.nlm.nih.gov/pubmed/22426202

Cannabidiol and clozapine reverse MK-801-induced deficits in social interaction and hyperactivity in Sprague-Dawley rats. (abst – 2012)
http://www.ncbi.nlm.nih.gov/pubmed/22495620

Impact of ADHD and cannabis use on executive functioning in young adults. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23992650

Subtypes of Attention Deficit-Hyperactivity Disorder (ADHD) and Cannabis Use. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24093525

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/

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/

Can Medical Cannabis Stop The ADHD Epidemic? (news - 2013)
http://www.wakingtimes.com/2013/04/11/can-medical-cannabis-stop-the-adhd-epidemic/

Marijuana Affects Autism, But Not How You'd Think [Study] (news – 2013)
http://www.inquisitr.com/874575/marijuana-affects-autism-but-not-how-youd-think-study/

Can Marijuana Calm Symptoms of ADHD? (news – 2013)
http://www.leafscience.com/2013/10/11/can-marijuana-calm-symptoms-adhd/

Childhood and current ADHD symptom dimensions are associated with more severe cannabis outcomes in college students. (abst – 2014)
http://www.ncbi.nlm.nih.gov/pubmed/24332802

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)
http://www.ncbi.nlm.nih.gov/pubmed/25175495

ADDICTION +*

Medical marijuana users in substance abuse treatment. (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2848643/?tool=pubmed

More aroused, less fatigued: fatty acid amide hydrolase gene polymorphisms influence acute response to amphetamine. (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2945903/

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

Sorry, Sgt. Friday, Pot Smoking Might Not Lead to Hard Drugs (news – 2010)
http://www.parentdish.com/2010/09/03/sorry-sgt-friday-pot-smoking-might-not-lead-to-hard-drugs/

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

Dronabinol for the treatment of cannabis dependence: a randomized, double-blind, placebo-controlled trial. (full – 2011)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3154755/

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) http://www.mdpi.com/1424-8247/4/8/1101

Abuse potential and psychoactive effects of δ-9-tetrahydrocannabinol and cannabidiol oromucosal spray (Sativex), a new cannabinoid medicine. (abst – 2011)
http://www.ncbi.nlm.nih.gov/pubmed/21542664

Cure for the Munchies? Exercise Cuts Marijuana Cravings (news – 2011)
http://healthland.time.com/2011/03/09/cure-for-the-munchies-exercise-cuts-marijuana-cravings/

Exercise can reduce cannabis use in persons who don't want to stop (news – 2011)
http://www.news-medical.net/news/20110304/Exercise-can-reduce-cannabis-use-in-persons-who-dont-want-to-stop.aspx

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

The Interplay between Parental Monitoring and the Dopamine D4 Receptor Gene in Adolescent Cannabis Use (full – 2012)
http://www.plosone.org/article/fetchObject.action?uri=info%3Adoi%2F10.1371%2Fjournal.pone.0049432&representation=PDF

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

Medical marijuana laws in 50 states: Investigating the relationship between state legalization of medical marijuana and marijuana use, abuse and dependence. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3251168/

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/

The genetic basis of the endocannabinoid system and drug addiction in humans (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/21937688

A genetic perspective on the proposed inclusion of cannabis withdrawal in DSM-5. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/23194657

Reduction of dependence to cannabinoids by GLT-1 activating property of the beta-lactam antibiotic. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/23253111

Human abuse potential and cognitive effects of taranabant, a cannabinoid 1 receptor inverse agonist: a randomized, double-blind, placebo- and active-controlled, crossover study in recreational polydrug users. (abst – 2012)
http://www.ncbi.nlm.nih.gov/pubmed/22722508

Anandamide and 2-arachidonoylglycerol: Pharmacological Properties, Functional Features, and Emerging Specificities of the Two Major Endocannabinoids (abst - 2012) http://www.ncbi.nlm.nih.gov/pubmed/22801993

Marijuana Mouth Spray: Will It Be Abused? (news – 2012)
http://news.discovery.com/human/medical-marijuana-spray-120131.htm

'Cannabis' receptor discovery may help understanding of obesity and pain (news – 2012) http://phys.org/news/2012-08-cannabis-receptor-discovery-obesity-pain.html

Implicit Associations and Explicit Expectancies toward Cannabis in Heavy Cannabis Users and Controls. (full – 2013)
http://www.frontiersin.org/Addictive_Disorders_and_Behavioral_Dyscontrol/10.3389/fpsyt.2013.00059/full

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/

Therapeutic potential of cannabinoid medicines. (full – 2013) http://onlinelibrary.wiley.com/doi/10.1002/dta.1529/full

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/

Taking Note of Over-the-Counter Remedies for Adolescents With Cannabis Dependence (editorial – 2013) http://ajp.psychiatryonline.org/article.aspx?articleid=1268260&resultClick=3

Endocannabinoid system and drug addiction: new insights from mutant mice approaches. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23490550

Lipids and addiction: how sex steroids, prostaglandins, and cannabinoids interact with drugs of abuse. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23510307

Role of intra-accumbal cannabinoid CB1 receptors in the potentiation, acquisition and expression of morphine-induced conditioned place preference. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23523958

Dysregulation of Cannabinoid CB1 Receptor and Associated Signaling Networks in Brains of Cocaine Addicts and Cocaine-Treated Rodents. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23727505

Male and Female Rats Differ in Brain Cannabinoid CB1 Receptor Density and Function and in Behavioural Traits Predisposing To Drug Addiction: Effect of Ovarian Hormones. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23829370

Palmitoylethanolamide: From endogenous cannabimimetic substance to innovative medicine for the treatment of cannabis dependence. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23896215

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

Neural responses to subliminally presented cannabis and other emotionally evocative cues in cannabis-dependent individuals. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24186078

Endocannabinoids underlie reconsolidation of hedonic memories in Wistar rats. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24247477

Cannabis Cue Reactivity and Craving Among Never, Infrequent and Heavy Cannabis Users. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24264815

Cannabis withdrawal syndrome: An important diagnostic consideration in adolescents presenting with disordered eating. (abst – 2013)
http://www.ncbi.nlm.nih.gov/pubmed/24281745

Low frequency stimulation evokes serotonin release in the nucleus accumbens and induces long-term depression via production of endocannabinoid. (abst – 2013)
http://www.ncbi.nlm.nih.gov/pubmed/24335217

Cannabis withdrawal in chronic, frequent cannabis smokers during sustained abstinence within a closed residential environment (abst – 2013)
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Relationship between working-memory network function and substance use: a 3-year longitudinal fMRI study in heavy cannabis users and controls (abst – 2013)
http://onlinelibrary.wiley.com/doi/10.1111/adb.12111/abstract

The effects of cannabis use expectancies on self-initiated cannabis cessation (abst – 2013) http://onlinelibrary.wiley.com/doi/10.1111/add.12233/abstract

Cannabis as a substitute for alcohol and other drugs: A dispensary-based survey of substitution effect in Canadian medical cannabis patients (abst – 2013)
http://informahealthcare.com/doi/abs/10.3109/16066359.2012.733465?prevSearch=allfield%253A%2528addiction%2Bresearch%2Band%2Btheory%2Blucas%2529&searchHistoryKey=

Why I changed my mind on weed (news – 2013)
http://www.cnn.com/2013/08/08/health/gupta-changed-mind-marijuana/index.html

Terpenes May Improve Effectiveness Of Medical Marijuana (news – 2013)
http://www.medicaljane.com/2013/09/23/terpenes-may-improve-effectiveness-of-medical-marijuana/#

4 Myths About Marijuana Addiction (news – 2013)
http://www.leafscience.com/2013/11/28/4-myths-marijuana-addiction/

Cross-sectional and prospective relation of cannabis potency, dosing and smoking behaviour with cannabis dependence: an ecological study. (full – 2014)
http://onlinelibrary.wiley.com/doi/10.1111/add.12508/full

Cannabidiol: Pharmacology and potential therapeutic role in epilepsy and other neuropsychiatric disorders (full – 2014)
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Prolonged monoacylglycerol lipase blockade causes equivalent CB1-receptor mediated adaptations in FAAH wild type and knockout mice. (full – 2014)
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Pregnenolone can protect the brain from cannabis intoxication. (full – 2014)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4057431/

Potential Role of N-Acetylcysteine in the Management of Substance Use Disorders. (full – 2014) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4009342/

Systematic review of N-acetylcysteine in the treatment of addictions. (full – 2014)
http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1516-44462014005031244&lng=en&nrm=iso&tlng=en

Endocannabinoid-dependent modulation of phasic dopamine signaling encodes external and internal reward-predictive cues. (full – 2014)
http://journal.frontiersin.org/Journal/10.3389/fpsyt.2014.00118/full

Dependence Potential of the Synthetic Cannabinoids JWH-073, JWH-081, and JWH-210: In Vivo and In Vitro Approaches. (full – 2014)
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http://jpet.aspetjournals.org/content/early/2014/11/14/jpet.114.218677.long

Expression and localization of cannabinoid receptor 1 in rats' brain treated with acute and repeated morphine. (link to PDF – 2014) http://www.ncbi.nlm.nih.gov/pubmed/25231848

Evaluation of WIN 55,212-2 self-administration in rats as a potential cannabinoid abuse liability model. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/24412835

Nabiximols as an Agonist Replacement Therapy During Cannabis Withdrawal: A Randomized Clinical Trial. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/24430917

Prevalence and correlates of alcohol and cannabis use disorders in the United States: Results from the national longitudinal study of adolescent health. (abst – 2014)
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Imaging dopamine transmission parameters in cannabis dependence. (abst – 2014)
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Evaluation of sex differences in cannabinoid dependence. (abst – 2014)
http://www.ncbi.nlm.nih.gov/pubmed/24582909

Cannabis as a substitute for alcohol and other drugs: A dispensary-based survey of substitution effect in Canadian medical cannabis patients (abst – 2014)
http://informahealthcare.com/doi/abs/10.3109/16066359.2012.733465

Strain differences in the expression of endocannabinoid genes and in cannabinoid receptor binding in the brain of Lewis and Fischer 344 rats. (abst – 2014)
http://www.ncbi.nlm.nih.gov/pubmed/24607771

Changes in cigarette and alcohol use during cannabis abstinence. (abst – 2014)
http://www.ncbi.nlm.nih.gov/pubmed/24613633

Mutation of Putative GRK Phosphorylation Sites in the Cannabinoid Receptor 1 (CB1R) Confers Resistance to Cannabinoid Tolerance and Hypersensitivity to Cannabinoids in Mice. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/24719095

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(abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/25131716

Endocannabinoid signaling and food addiction. (abst – 2014)
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Association study of CNR1, GAD1 and BDNF polymorphisms with male heroin dependence in the Dai population in Yunnan. (abst – 2014)
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Cannabinoid modulation of drug reward and the implications of marijuana legalization.
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(abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/25455257

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Frequent marijuana use is associated with greater nicotine addiction in adolescent smokers. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/24928480

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Muting Marijuana's High: Pot Without the Impairment (news – 2014)
http://healthland.time.com/2014/01/03/muting-marijuanas-high-pot-without-the-impairment/

Marijuana Is Less Addictive Than Chocolate (news - 2014)
http://business-news.thestreet.com/philly/story/marijuana-less-addictive-chocolate/1

Surveys yet to link medical marijuana and teen drug abuse (news - 2014)
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Legalizing Medical Marijuana Doesn't Lead To More Teens Smoking Pot: Study (news – 2014) http://www.huffingtonpost.com/2014/04/25/medical-marijuana-teens_n_5214875.html

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CANCER – LYMPHOMA +*

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CANCER – MELANOMA **+***

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CANCER – ORAL **+***

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CANCER – OVARIAN +

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CANCER - PANCREATIC +

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CANCER - PITUITARY ADENOMA +

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CANCER – PNET / PRIMITIVE NEUROECTODERMAL TUMOR +

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CANCER – PROSTATE +*

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CANCER – RHABDOMYOSARCOMA +

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CANCER – SKIN +

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CANCER – SQUAMOUS CELL CARCINOMA +

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Plant-Based Foods With the Highest Omega-3 Fatty Acids (news – 2014) http://www.onegreenplanet.org/natural-health/plant-based-foods-with-the-highest-amount-of-omega-3-fatty-acids/

Inhibition of COX-2-mediated eicosanoid production plays a major role in the anti-inflammatory effects of the endocannabinoid N-docosahexaenoylethanolamine (DHEA) in macrophages (full – 2015) http://onlinelibrary.wiley.com/doi/10.1111/bph.12747/full

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OMEGA-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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Hepatic n-3 Polyunsaturated Fatty Acid Depletion Promotes Steatosis and Insulin Resistance in Mice: Genomic Analysis of Cellular Targets (full – 2011)
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http://evolutionarypsychiatry.blogspot.com/2011/04/summary-of-endocannabinoids-and-obesity.html

Dietary linoleic acid elevates endogenous 2-arachidonoylglycerol and anandamide in Atlantic salmon (Salmo salar L.) and mice, and induces weight gain and inflammation in mice. (full - 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3548985/

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http://onlinelibrary.wiley.com/doi/10.1002/jnr.23231/abstract

All You Need to Know About Hemp Seeds (news – 2013)
http://www.onegreenplanet.org/vegan-health/hemp-seeds-health-benefits-tips-and-recipes/

Polyunsaturated Fatty Acid-Derived Lipid Mediators and T Cell Function
(full – 2014) http://www.ncbi.nlm.nih.gov/pubmed/24611066

Docosahexaenoyl ethanolamide improves glucose uptake and alters endocannabinoid system gene expression in proliferating and differentiating C2C12 myoblasts.
(full – 2014) http://journal.frontiersin.org/Journal/10.3389/fphys.2014.00100/full

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The endocannabinoid system: directing eating behavior and macronutrient metabolism.
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Do cannabinoids have a therapeutic role in transplantation? (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2923447/?tool=pubmed

Denial of hepatic transplantation on the basis of smoking: is it ethical? (abst – 2010)
http://www.ncbi.nlm.nih.gov/pubmed/20154621

Oregon hospitals denying life saving organ transplants to legal medical marijuana patients (news - 2010)
http://www.huffingtonpost.com/russ-belville/oregon-hospitals-denying_b_575965.html

Health Tragedy: Patients Denied Life-Saving Transplants for Their "Abuse of Illicit Substances" (news – 2010)
http://www.alternet.org/health/145432/health_tragedy%3A_patients_denied_life-saving_transplants_for_their_%22abuse_of_illicit_substances%22

Targeting cannabinoid receptors as a novel approach in the treatment of graft-versus-host disease: Evidence from an experimental murine model. (full – 2011)
http://jpet.aspetjournals.org/content/early/2011/06/14/jpet.111.182717.long

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(1st page – 2011)
http://www.psychosomaticsjournal.com/article/S0033-3182%2810%2900028-9/abstract

The Denial of Organ Transplants to Medical Marijuana Patients (news – 2011)
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Cancer Patient Taken Off Of Liver Transplant List Because Of Medical Marijuana Use (news – 2011) http://www.huffingtonpost.com/2011/12/05/norman-smith-cancer_n_1130619.html

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http://www.cannabisculture.com/v2/content/2011/11/17/Cedars-Sinai-Denying-Transplant-Medical-Marijuana-Patient-Inoperable-Liver-Cancer

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http://www.ncbi.nlm.nih.gov/pubmed/23824763

N.J. Assembly approves bill protecting marijuana patients (news – 2013)
http://www.philly.com/philly/news/20130524_N_J__Assembly_approves_bill_protecting_marijuana_patients.html

N-acyl dopamine derivates as lead compound for implementation in transplantation medicine. (abst – 2015) http://www.ncbi.nlm.nih.gov/pubmed/25576467

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Hypothalamic regulation of bone. (full – 2010)
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Cannabinoid Receptors as Target for Treatment of Osteoporosis: A Tale of Two Therapies (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3001217/?tool=pubmed

Tissue Engineering of Cartilage; Can Cannabinoids Help? (full – 2010)
http://www.tara.tcd.ie/bitstream/2262/40674/1/Tissue%20Engineering%20of%20Cartilage%20-%20Can%20Cannabinoids%20Help.pdf

Endocannabinoids Are Expressed in Bone Marrow Stromal Niches and Play a Role in Interactions of Hematopoietic Stem and Progenitor Cells with the Bone Marrow Microenvironment (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2975171/?tool=pubmed

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

Cannabinoids and Bone: Friend or Foe? (abst - 2010)
http://www.ncbi.nlm.nih.gov/pubmed/20532878

Activation of cannabinoid receptor CB2 regulates osteogenic and osteoclastogenic gene expression in human periodontal ligament cells. (abst – 2010)
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The endovanilloid/endocannabinoid system: A new potential target for osteoporosis therapy. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21237298

The role of cannabinoid receptors in bone remodeling in a CB1/2 double knockout mouse (abst – 2011) http://www.fasebj.org/cgi/content/meeting_abstract/25/1_MeetingAbstracts/492.5?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&sortspec=date&resourcetype=HWCIT

Role of cannabinoids in the regulation of bone remodeling (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3499879/

Platelet-rich plasma loaded hydrogel scaffold enhances chondrogenic differentiation and maturation with up-regulation of CB1 and CB2. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22366523

THE CO-EXPRESSION OF THE ENDOCANNABINOID SYSTEM AND THE RANK/RANKL SIGNALLING PATHWAY IN HUMAN BONE AND OSTEOCLAST CULTURE (abst – 2012) http://www.bjjprocs.boneandjoint.org.uk/content/94-B/SUPP_XVIII/7.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT

Cannabinoids: novel therapies for arthritis? (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22530636

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/

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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

Genetic background modifies the effects of type 2 cannabinoid receptor deficiency on bone mass and bone turnover. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/24036631

Protection from osteoarthritis may lie in our own joints, study suggests (news – 2014) http://www.alphagalileo.org/ViewItem.aspx?ItemId=141814&CultureCode=en

Activation of Cannabinoid Receptor 2 Enhances Osteogenic Differentiation of Bone Marrow Derived Mesenchymal Stem Cells (full – 2015) http://www.hindawi.com/journals/bmri/2015/874982/

CB1 cannabinoid receptors mediate endochondral skeletal growth attenuation by Δ9-tetrahydrocannabinol (full – 2015) http://onlinelibrary.wiley.com/doi/10.1111/nyas.12642/full

Dose-response estrogen promotes osteogenic differentiation via GPR40 (FFAR1) in murine BMMSCs. (abst - 2015) http://www.ncbi.nlm.nih.gov/pubmed/25576830

San Francisco Medical Marijuana Clinic Says Cannabis is Effective for Many Women's Medical Issues (news – 2015) http://www.prweb.com/releases/marijuana-doctor/san-francisco/prweb8668761.htm

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Lack of association between C385A functional polymorphism of the fatty acid amide hydrolase gene and polycystic ovary syndrome. (abst – 2013)
http://www.ncbi.nlm.nih.gov/pubmed/23616186

Relationship between leptin receptor and polycystic ovary syndrome. (abst – 2013)
http://www.ncbi.nlm.nih.gov/pubmed/23769971

Cannabinoid receptor 1 gene polymorphisms and nonalcoholic Fatty liver disease in women with polycystic ovary syndrome and in healthy controls. (full – 2014)
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Selected CNR1 polymorphisms and hyperandrogenemia as well as fat mass and fat distribution in women with polycystic ovary syndrome. (abst – 2014)
http://www.ncbi.nlm.nih.gov/pubmed/25093427

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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http://www.unboundmedicine.com/medline/ebm/record/21283933/abstract/%5BAccidental_cannabis_poisoning_in_children:_report_of_four_cases_in_a_tertiary_care_center_from_southern_Spain%5D_

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Pharmacological interventions in the treatment of the acute effects of cannabis: a systematic review of literature (full – 2012)
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Acute cannabis poisoning in a 10-month-old infant. (abst – 2012)
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Is lipid signaling through cannabinoid 2 receptors part of a protective system? (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3062638/

Global Commission Drug Report (links to full in various languages – 2011)
http://www.globalcommissionondrugs.org/Report

Scientific Opinion on the safety of hemp (Cannabis genus) for use as animal feed

(full – 2011) (deceptive title)
http://www.hanf-info.ch/info/en/IMG/pdf/EIHA-11-05-31_EIHA-Statement_on_THC_in_feed.pdf

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http://norml.org/index.cfm?Group_ID=8444

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(full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3538401/

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intractable cancer-related pain. (abst - 2010)
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Pain target enzyme's working made crystal clear (news – 2010)
http://www.rsc.org/chemistryworld/News/2010/May/26051001.asp

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http://www.cnn.com/2010/HEALTH/08/30/health.pot.reduce.pain/

Marijuana better than pharmaceuticals at treating chronic pain, improving mood (news - 2010) http://www.naturalnews.com/029662_marijuana_chronic_pain.html

Painkilling System in Brain: Too Much of a Good Thing? (news - 2010)
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Smoking cannabis relieves chronic pain (news – 2010)
http://www.independent.co.uk/life-style/health-and-families/smoking-cannabis-relieves-chronic-pain-2067287.html

Studies demonstrate analgesic properties of synthetic cannabinoid (news – 2010)
http://www.news-medical.net/news/20100702/Studies-demonstrate-analgesic-properties-of-synthetic-cannabinoid.aspx

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Non-psychoactive cannabinoids modulate the descending pathway of antinociception in anaesthetized rats through several mechanisms of action (full– 2011)
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