

Granny Storm Crow's List - January 2014

My Goodness! How my List has grown over the last few months! And there have been some rather unexpected new “branchings” in the List recently. Acetaminophen, black tea, flax, echinacea, and magnolias? How did they manage to sneak into my list on cannabis, cannabinoids, and the endocannabinoid system?

The answer is simple, the plants all contain compounds that interact with receptors in the endocannabinoid system. Science has discovered that cannabinoids are, indeed, made by other plants. So far, none of them cause the same dramatic psychoactive CB1 receptor reaction (the high) as THC. They seem to be mostly limited to the CB2 receptors (no high, just healing).

Acetaminophen, on the other hand, is transformed by your body into a compound called AM-404, which blocks the break-down of anandamide, your body’s own version of THC. Just like THC, anandamide makes you “feel good” and decreases pain. Blocking the break-down of the fragile anandamide by AM-404 results in more anandamide being in your body, relieving your pain. The acetaminophen, itself, does nothing to relieve your pain!

As much as I would like it to be, cannabis is not 100% safe- nothing is! There is something you need to understand about the endocannabinoid system- it is a system of checks and balances. The amounts of endocannabinoids vary according to the body’s needs. As an example, during a woman’s ovulation, her anandamide levels spike, then drop drastically for the implantation of the egg. THC during ovulation would have little effect, but just days later, THC might interfere with implantation. Women trying to get pregnant should avoid cannabis.

Teens under the age of 16 should not be using cannabis unless there is a medical reason. The adolescent brain undergoes a “rewiring job” and the endocannabinoid system is right in the middle of things. The fear is that THC will cause “misconnections” resulting in subtle personality changes or neurosis. Like alcohol, cannabis should normally be reserved for adults.

Likewise, cancer is not just one disease, which is why one treatment does not work on all types of cancer. Most cancers appear to be slowed by THC, but there are a few rare exceptions. When exposed to THC or similar synthetics, A549 lung cancer cells start reproducing, while exposure to CBD slows them down*. The usual “high THC” RSO could be a disaster for a small minority of cancer patients. We need more research, but that can’t happen without legalization!

Our government has lied to us about the effects of cannabis for over seven decades. They have blocked virtually all research into cannabis and how it heals. They have ranked a never-fatal herbal medicine with the most deadly kinds of drugs, against all scientific evidence! Yet, somehow, that inconvenient truth keeps coming out - cannabis heals! It is time that we, as a nation, demand that the truth be openly acknowledged and research into this amazing plant begun! As my Grandfather said, “If the truth won’t do, then something is wrong”!

* Critical appraisal of the potential use of cannabinoids in cancer management. (link to PDF – 2013)
<http://www.dovepress.com/critical-appraisal-of-the-potential-use-of-cannabinoids-in-cancer-mana-a14216>

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CONDITIONS and RELATED ARTICLES

* = older studies in Pre-2000 List.

It Is Time for Marijuana to Be Reclassified as Something Other Than a Schedule I Drug!
(article - 2005)

<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1681626&tool=pmcentrez>

ACETAMINOPHEN/ PARACETAMOL - changes into AM- 404, stopping anandamide break-down

Conversion of acetaminophen to the bioactive N-acylphenolamine AM404 via fatty acid amide hydrolase-dependent arachidonic acid conjugation in the nervous system.

(full – 2005) <http://www.jbc.org/content/280/36/31405.long>

The analgesic activity of paracetamol is prevented by the blockade of cannabinoid CB1 receptors (abst – 2005) <http://www.sciencedirect.com/science/article/pii/S0014299905013178>

The analgesic activity of paracetamol is prevented by the blockade of cannabinoid CB1 receptors. (abst – 2005) <http://www.ncbi.nlm.nih.gov/pubmed/16438952>

Paracetamol: New Vistas of an Old Drug (full – 2006)

<http://onlinelibrary.wiley.com/doi/10.1111/j.1527-3458.2006.00250.x/full>

The local antinociceptive effects of paracetamol in neuropathic pain are mediated by cannabinoid receptors (abst – 2007)

<http://www.sciencedirect.com/science/article/pii/S0014299907007935>

Pro-drugs for indirect cannabinoids as therapeutic agents. (abst – 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18855592>

Endocannabinoid and serotonergic systems are needed for acetaminophen-induced analgesia. (abst – 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18485596?dopt=Abstract&holding=f1000,f1000m,isrcn>

Endocannabinoids mediate anxiolytic-like effect of acetaminophen via CB1 receptors. (abst – 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19580839>

Cannabinoid receptor-mediated antinociception with acetaminophen drug combinations in rats with neuropathic spinal cord injury pain. (full – 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2826109/?tool=pubmed>

Can autism be triggered by acetaminophen activation of the endocannabinoid system?
(link to PDF – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20628445>

Paracetamol-induced hypothermia is independent of cannabinoids and transient receptor potential vanilloid-1 and is not mediated by AM404. (full – 2011)
<http://dmd.aspetjournals.org/content/39/9/1689.full>

Acetaminophen inhibits status epilepticus in cultured hippocampal neurons.
(full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3052417/>

TRPA1 mediates spinal antinociception induced by acetaminophen and the cannabinoid Δ 9-tetrahydrocannabinol (abst – 2011)
<http://www.nature.com/ncomms/journal/v2/n11/full/ncomms1559.html>

Acetaminophen differentially enhances social behavior and cortical cannabinoid levels in inbred mice. (full – 2012) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3389197/>

Acetaminophen, pesticide, and diethylhexyl phthalate metabolites, anandamide, and fatty acids in deciduous molars: potential biomarkers of perinatal exposure. (abst – 2012)
<http://www.ncbi.nlm.nih.gov/pubmed/22805989>

Inhibition of fatty acid amide hydrolase by URB597 attenuates the anxiolytic-like effect of acetaminophen in the mouse elevated plus-maze test. (abst – 2012)
<http://www.ncbi.nlm.nih.gov/pubmed/22750843>

Intraocular pressure-lowering effect of oral paracetamol and its in vitro corneal penetration properties. (full – 2013) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3564461/>

Blockade of cannabinoid CB1 and CB2 receptors does not prevent the antipruritic effect of systemic paracetamol. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24399199>

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

Cannabis (Marijuana) Being Looked at For Acne Clearing Properties (news – 2007)
<http://www.acnemagazine.com/cannabis-marijuana-being-looked-at-for-acne-clearing-properties/>

Endocannabinoids enhance lipid synthesis and apoptosis of human sebocytes via cannabinoid receptor-2-mediated signaling. (full – 2008)
<http://www.fasebj.org/content/22/10/3685.long>

Cannabis - Why it could be an acne cure (news – 2008)
<http://www.truthinaging.com/face/why-cannabis-could-be-an-acne-cure>

The endocannabinoid system of the skin in health and disease: novel perspectives and therapeutic opportunities. (full – 2009)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2757311/?tool=pubmed>

Hemp Seed Oil Benefits (news – 2009)
<http://www.livestrong.com/article/31903-hemp-seed-oil-benefits/>

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>

ACUPUNCTURE/ ELECTROACUPUNCTURE

Pretreatment with electroacupuncture induces rapid tolerance to focal cerebral ischemia through regulation of endocannabinoid system. (full – 2009)
<http://stroke.ahajournals.org/content/40/6/2157.long>

Endogenous anandamide and cannabinoid receptor-2 contribute to electroacupuncture analgesia in rats. (abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19409856>

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>

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/pubmed/23956775>

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>

ADD/ ADHD *

Recipe For Trouble (anecdotal/ news - 2002) <http://www.cbsnews.com/stories/2002/03/05/48hours/main503022.shtml>

Association between cannabinoid receptor gene (CNR1) and childhood attention deficit/hyperactivity disorder in Spanish male alcoholic patients (full - 2003) <http://www.nature.com/mp/journal/v8/n5/full/4001278a.html>

Cannabinoids effective in animal model of hyperactivity disorder (abst - 2003) http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=162#4

Cannabis 'Scripts to Calm Kids? (news - 2004) <http://www.foxnews.com/story/0,2933,117541,00.html>

Fitness to drive in spite (because) of THC (abst - 2007) http://www.unboundmedicine.com/medline/ebm/record/17879702/abstract/%5BFitness_to_drive_in_spite_because_of_THC%5D

Science: THC normalized impaired psychomotor performance and mood in a patient with hyperactivity disorder (news - 2007) http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=254

Association of the Cannabinoid Receptor Gene (CNR1) With ADHD and Post-Traumatic Stress Disorder (full - 2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2685476/?tool=pubmed>

Cannabis Improves Symptoms of ADHD (full - 2008)

http://www.cannabis-med.org/english/journal/en_2008_01_1.pdf

Cannabis use and adult ADHD symptoms. (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18242878>

Autism, ADD, ADHD and Marijuana Therapy (news - 2008)

<http://entheology.com/news-articles/autism-add-adhd-and-marijuana-therapy/>

Effects of the cannabinoid CB1 receptor antagonist rimonabant on distinct measures of impulsive behavior in rats. (full – 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1915592/?tool=pubmed>

Bidirectional regulation of novelty-induced behavioral inhibition by the endocannabinoid system. (abst – 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19607846>

Cannabinoid receptors in brain: pharmacogenetics, neuropharmacology, neurotoxicology, and potential therapeutic applications (abst – 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19897083>

Doctors recommend medical marijuana for minors with ADHD in California

(news – 2009)

<http://www.nydailynews.com/life-style/health/doctors-recommend-medical-marijuana-minors-adhd-california-article-1.419585#ixzz2Ui5xXtRZ>

Prescribing marijuana to kids (news – 2009)

<http://theweek.com/article/index/103325/prescribing-marijuana-to-kids>

Why I Give My 9-year-old Pot (anecdotal/news - 2009)

<http://living.msn.com/life-inspired/why-i-give-my-9-year-old-pot>

Why I Give My 9-Year-Old Pot, Part II (news/anecdotal - 2009)

<http://living.msn.com/life-inspired/why-i-give-my-9-year-old-pot?pageart=2>

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

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>

ADDICTION *

Tokepure (news – undated) <http://ukcia.org/activism/tokepure.php>

Variation in youthful risks of progression from alcohol and tobacco to marijuana and to hard drugs across generations. (full – 2001)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1446541/pdf/11211630.pdf>

Delta9-tetrahydrocannabinol releases and facilitates the effects of endogenous enkephalins: reduction in morphine withdrawal syndrome without change in rewarding effect. (abst – 2001) <http://www.ncbi.nlm.nih.gov/pubmed/11359533>

Chronic Morphine Modulates the Contents of the Endocannabinoid, 2-Arachidonoyl Glycerol, in Rat Brain (full - 2003)

<http://www.nature.com/npp/journal/v28/n6/full/1300117a.html>

Does Cannabis Use Predict Poor Outcome for Heroin-dependent Patients on Maintenance Treatment? Past Findings and More Evidence Against. (full – 2003)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2943839/>

Human cannabinoid receptor 1: 5' exons, candidate regulatory regions, polymorphisms, haplotypes and association with polysubstance abuse. (full – 2004)

<http://www.nature.com/mp/journal/v9/n10/full/4001560a.html>

Review of the Validity and Significance of Cannabis Withdrawal Syndrome

(full – 2004) <http://ajp.psychiatryonline.org/article.aspx?articleid=177137>

Cannabis Abuse is Not a Risk Factor for Treatment Outcome in Methadone Maintenance Treatment: a 1-year Prospective Study in an Israeli Clinic. (abst – 2004)

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Alcohol Consumption Moderates the Link Between Cannabis Use and Cannabis Dependence in an Internet Survey. (abst – 2005)

<http://psycnet.apa.org/journals/adb/19/2/212/>

Teen Drug Use Has Changed Little Since 1970s : Genetics, environment, nature of drug determine number of new users who become dependent. (news – 2005)

[http://www.clinicalpsychiatrynews.com/index.php?id=2407&cHash=071010&tx_ttnews\[tt_news\]=37073](http://www.clinicalpsychiatrynews.com/index.php?id=2407&cHash=071010&tx_ttnews[tt_news]=37073)

Confirming alcohol-moderated links between cannabis use and dependence in a national sample (abst – 2006)

<http://www.sciencedirect.com/science/article/pii/S0306460305002959>

Long term marijuana users seeking medical cannabis in California (2001–2007): demographics, social characteristics, patterns of cannabis and other drug use of 4117 applicants (full - 2007)

<http://www.harmreductionjournal.com/content/4/1/16>

Lack of behavioral sensitization after repeated exposure to THC in mice and comparison to methamphetamine (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2637562/?tool=pubmed>

The fatty acid amide hydrolase C385A (P129T) missense variant in cannabis users: studies of drug use and dependence in Caucasians (abst – 2007)

<http://www.ncbi.nlm.nih.gov/pubmed/17290447>

Buspirone, Fluoxetine May Counter Cannabis Use (news – 2007)

[http://www.clinicalpsychiatrynews.com/index.php?id=2407&cHash=071010&tx_ttnews\[tt_news\]=37659](http://www.clinicalpsychiatrynews.com/index.php?id=2407&cHash=071010&tx_ttnews[tt_news]=37659)

Merck Manual - Marijuana (Cannabis) (excerpt - 2008)

http://www.merckmanuals.com/professional/special_subjects/drug_use_and_dependence/marijuana_cannabis.html?qt=marijuana&alt=sh#v1027079

Study of 4000 indicates marijuana discourages use of hard drugs. (news – 2008)

<http://www.csdp.org/publicservice/medicalmj08.htm>

Calling B.S. on the Idea of 'Marijuana Addiction' (news – 2008)

<http://www.alternet.org/drugs/80408/?page=entire>

When Your Kid Smokes Pot (news – 2008)

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Adolescent Exposure to Chronic Delta-9-Tetrahydrocannabinol Blocks Opiate Dependence in Maternally Deprived Rats (full - 2009)

<http://www.nature.com/npp/journal/v34/n11/full/npp200970a.html>

Decrease in Adolescent Cannabis Use From 2002 to 2006 and Links to Evenings Out With Friends in 31 European and North American Countries and Regions (full - 2009)

<http://archpedi.jamanetwork.com/article.aspx?articleid=380833>

The Surprising Effect Of Marijuana On Morphine Dependence (news - 2009)

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Active Ingredient In Cannabis Eliminates Morphine Dependence In Rats (news - 2009)

<http://www.sciencedaily.com/releases/2009/07/090706090440.htm>

Four percent of adults worldwide using cannabis (news – 2009)

<http://phys.org/news174892348.html>

For pot users, visual and audible cues set off cravings (news – 2009)

<http://arstechnica.com/science/2009/07/abstinent-marijuana-users-still-have-cravings/>

The use and misuse of alcohol and marijuana can be traced to a common set of genes (news – 2009) http://www.eurekalert.org/pub_releases/2009-12/ace-tua121209.php

Marijuana: Help or hassle? (news – 2009)
<http://www.heretohelp.bc.ca/visions/cannabis-vol5/marijuana-help-or-hassle>

Cannabis use among teens is down - perhaps not everyone got the memo (news - 2009)
<http://www.examiner.com/article/cannabis-use-among-teens-is-down-perhaps-not-everyone-got-the-memo>

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

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>

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)
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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)
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A Double-Blind Randomized Controlled Trial of N-Acetylcysteine in Cannabis-Dependent Adolescents. (full – 2012)
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A genetic perspective on the proposed inclusion of cannabis withdrawal in DSM-5.
(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23194657>

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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>

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'Cannabis' receptor discovery may help understanding of obesity and pain
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The Interplay between Parental Monitoring and the Dopamine D4 Receptor Gene in Adolescent Cannabis Use (full – 2013)
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Inhibition of FAAH and activation of PPAR: New approaches to the treatment of cognitive dysfunction and drug addiction. (abst – 2013)
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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>

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<https://www.marijuanadoctors.com/content/ailments/view/110?ailment=back-pain>

Medical Marijuana and Back Sprain (news – 2009)
<https://www.marijuanadoctors.com/content/ailments/view/150?ailment=back-sprain->

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Pot a Common Remedy to Ease Back Pain (news – 2013)
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Role of the nitric oxide pathway and the endocannabinoid system in neurogenic relaxation of corpus cavernosum from biliary cirrhotic rats (full – 2007)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013996/>

Effect of biliary cirrhosis on nonadrenergic noncholinergic-mediated relaxation of rat corpus cavernosum: Role of nitric oxide pathway and endocannabinoid system (abst – 2008)

http://journals.tums.ac.ir/abs.aspx?culture_var=en&journal_id=9&org_id=59&manuscript_id=6272

G1359A polymorphism of the cannabinoid receptor gene (CNR1) and clinical results of biliopancreatic diversion (link to PDF – 2010)

<http://www.europeanreview.org/article/724>

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Bipolar Disorder and Endometriosis by Anonymous (anecdotal – undated)

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Recipe For Trouble (anecdotal/ news - 2002)

<http://www.cbsnews.com/stories/2002/03/05/48hours/main503022.shtml>

Cannabinoids in bipolar affective disorder: a review and discussion of their therapeutic potential. (full - 2005)

<http://www.ukcia.org/research/CannabinoidsInBipolarAffectiveDisorder.pdf>

Cannabis in bipolar (abst - 2005) <http://www.pendulum.org/bpnews/archive/001628.html>

Cannabis Spray for Bipolar (news - 2005)

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Marijuana Could Provide Mental Health Treatments (news - 2005)

<http://www.drugfree.org/join-together/drugs/marijuana-could-provide>

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http://www.unboundmedicine.com/medline/ebm/record/19891810/full_citation/Opposite_relationships_between_cannabis_use_and_neurocognitive_functioning_in_bipolar_disorder_and_schizophrenia

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Genetic association between bipolar disorder and 524A>C (Leu133Ile) polymorphism of CNR2 gene, encoding for CB2 cannabinoid receptor. (abst - 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21658778>

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<http://www.ncbi.nlm.nih.gov/pubmed/22818174>

No association of endocannabinoid genes with bipolar disorder or lithium response in a Sardinian sample. (abst – 2013)

<http://www.ncbi.nlm.nih.gov/pubmed/24126189>

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Effects of cannabinoid receptor agonists on neuronally-evoked contractions of urinary bladder tissues isolated from rat, mouse, pig, dog, monkey and human (full - 2000)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1571997/?tool=pmcentrez>

Administration of Endocannabinoids Prevents a Referred Hyperalgesia Associated With Inflammation of the Urinary Bladder (full – 2001)

http://journals.lww.com/anesthesiology/Fulltext/2001/03000/Administration_of_Endocannabinoids_Prevents_a.23.aspx

Clinical investigation of delta-9-tetrahydrocannabinol (THC) as an alternative therapy for overactive bladders in spinal cord injury (SCI) patients. (abst - 2001)

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Contrasting effects of WIN 55212-2 on motility of the rat bladder and uterus.

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An open-label pilot study of cannabis-based extracts for bladder dysfunction in advanced multiple sclerosis. (full - 2004)

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Therapy Insight: Bladder Dysfunction Associated With Multiple Sclerosis (full - 2005)

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Marijuana-Derived Drug Suppresses Bladder Overactivity And Irritation In Animal Models (news - 2005)

<http://www.sciencedaily.com/releases/2005/09/050906080225.htm>
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<http://www.empowher.com/urinary-incontinence/content/overactive-bladder-can-marijuana-potentially-treat-it>

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<http://www.indianjurol.com/article.asp?issn=0970-1591;year=2010;volume=26;issue=1;spage=26;epage=35;aualast=Tyagi>

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<http://www.jurology.com/article/S0022-5347%2810%2904713-0/fulltext>

Effects of cannabior, a novel selective cannabinoid 2 receptor agonist, on bladder function in normal rats. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20207474>

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Local activation of cannabinoid CB1 receptors in the urinary bladder reduces the inflammation-induced sensitization of bladder afferents. (full – 2011)
<http://www.molecularpain.com/content/pdf/1744-8069-7-31.pdf>

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http://www.fasebj.org/cgi/content/meeting_abstract/25/1_MeetingAbstracts/617.6?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HWCIT

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Cannabinoids and the endocannabinoid system in lower urinary tract function and dysfunction. (full – 2013) <http://onlinelibrary.wiley.com/doi/10.1002/nau.22442/full>

Diuretic effects of cannabinoids. (full – 2013)

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Cannabinoid agonists in the treatment of blepharospasm--a case report study.

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BLOOD/ PLASMA *

Estrogen stimulates arachidonylethanolamide release from human endothelial cells and platelet activation (full – 2002)

<http://bloodjournal.hematologylibrary.org/content/100/12/4040.full>

The Procoagulatory Effects of Delta-9-Tetrahydrocannabinol in Human Platelets (full - 2004) (funky link- says “404”, delete the “404” and it comes up)

<http://journals.lww.com/anesthesia-analgesia/pages/articleviewer.aspx?year=2004&issue=10000&article=00031&type=Fulltext>

Plasma Levels of the Endocannabinoid Anandamide in Women—A Potential Role in Pregnancy Maintenance and Labor? (full - 2004)

<http://press.endocrine.org/doi/full/10.1210/jc.2004-0681?view=long&pmid=15531501>

Release of anandamide from blood cells (abst – 2006)

<http://www.degruyter.com/abstract/j/cclm.2006.44.issue-4/cclm.2006.065/cclm.2006.065.xml?rskey=jSEJyD&result=7&q=cannabinoid>

Anticoagulant Effects of a Cannabis Extract in an Obese Rat Model (abst - 2007)

<http://marijuana.researchtoday.net/archive/4/4/736.htm>

Cholesterol-induced stimulation of platelet aggregation is prevented by a hempseed-enriched diet. (abst - 2008)

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Fluctuation in anandamide levels from ovulation to early pregnancy in in-vitro fertilization-embryo transfer women, and its hormonal regulation (full – 2009)

<http://humrep.oxfordjournals.org/content/24/8/1989.long>

Circulating endocannabinoid concentrations during orthostatic stress (abst – 2009)

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Dietary docosahexaenoic acid supplementation alters select physiological endocannabinoid-system metabolites in brain and plasma (full – 2010)

<http://www.jlr.org/content/51/6/1416.full.pdf+html>

Anandamide extends platelets survival through CB(1)-dependent Akt signaling.

(abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/19936621>

The relationship between plasma levels of the endocannabinoid, anandamide, sex steroids, and gonadotrophins during the menstrual cycle. (abst - 2010)

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Effect of Cannabis sativa on Hematological Indices in Rats and Men (full – 2011)

<http://docsdrive.com/pdfs/ansinet/pjn/2011/313-316.pdf>

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Plasma concentrations of endocannabinoids and related primary Fatty Acid amides in patients with post-traumatic stress disorder. (full – 2013)

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0062741>

Reductions in circulating endocannabinoid levels in individuals with post-traumatic stress disorder following exposure to the world trade center attacks (abst – 2013)

<http://www.psyneuen-journal.com/article/S0306-4530%2813%2900292-8/abstract>

Differential Expression of Intracellular and Extracellular CB(2) Cannabinoid Receptor Protein by Human Peripheral Blood Leukocytes. (abst – 2013)

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Cannabinoid Receptor Type 2, but not Type 1, is Up-Regulated in Peripheral Blood Mononuclear Cells of Children Affected by Autistic Disorders. (abst – 2013)

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

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http://press.endocrine.org/doi/abs/10.1210/jc.2013-2922?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%3dpubmed&

Compounds That Stimulate The Cannabinoid Type 2 Receptor In White Blood Cells Can Weaken HIV-1 Infection (news – 2013)

<http://www.medicalnewstoday.com/releases/259885.php>

Organophosphate agents induce plasma hypertriglyceridemia in mouse via single or dual inhibition of the endocannabinoid hydrolyzing enzyme(s). (abst – 2014)

<http://www.ncbi.nlm.nih.gov/pubmed/24361246>

BLOOD PRESSURE *

Endocannabinoids and Vascular Function (full - 2000)

<http://jpet.aspetjournals.org/content/294/1/27.long>

Endogenous cannabinoids mediate hypotension after experimental myocardial infarction (full - 2001)

<http://content.onlinejacc.org/cgi/content/full/38/7/2048?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=560&resourcectype=HWCIT>

Cardiovascular Effects of Cannabis (news - 2003) <http://www.idmu.co.uk/canncardio.htm>

Endocannabinoids Acting at Cannabinoid-1 Receptors Regulate Cardiovascular Function in Hypertension (full - 2004)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2756479/?tool=pmcentrez>

Blood pressure regulation by endocannabinoids and their receptors (full - 2005)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225528/?tool=pmcentrez>

Cardiovascular Pharmacology of Cannabinoids (full - 2005)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228270/?tool=pmcentrez>

Influence of Anandamide, the Endogenous Agonist of Cannabinoid Receptors on the Circulatory System (abst - 2005) <http://www.ncbi.nlm.nih.gov/pubmed/15928605>

Further Characterization of the Time-Dependent Vascular Effects of Δ^9 -

Tetrahydrocannabinol (full - 2006) <http://jpet.aspetjournals.org/content/317/1/428.full>

The Cannabinoid Cb1 Receptor Antagonist Rimonabant Attenuates the Hypotensive Effect of Smoked Marijuana in Male Smokers. (full - 2006)

<http://www.ahjonline.com/article/S0002-8703%2805%2901013-6/fulltext>

Differential mechanisms mediating depressor and diuretic effects of anandamide (abst - 2006) <http://www.ncbi.nlm.nih.gov/pubmed/17053550>

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Cannabis to lower blood pressure! (news - 2006)

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The in vitro and in vivo cardiovascular effects of Δ^9 -tetrahydrocannabinol (THC) in rats made hypertensive by chronic inhibition of nitric oxide synthase. (full - 2007)

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Characterization of the vasorelaxant mechanisms of the endocannabinoid anandamide in rat aorta (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190007/?tool=pubmed>

Cardiovascular effects of cannabinoids in conscious spontaneously hypertensive rats (full - 2007) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190006/?tool=pmcentrez>

2-Arachidonylglycerol ether and abnormal cannabidiol-induced vascular smooth muscle relaxation in rabbit pulmonary arteries via receptor-pertussis toxin sensitive G proteins-ERK1/2 signaling. (abst – 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17292352>

Endocannabinoids, blood pressure and the human heart. (full - 2008) <http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2826.2008.01677.x/full>

Modulation of the Endocannabinoid System in Cardiovascular Disease (full - 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2568884/?tool=pmcentrez>

'Entourage' effects of N-palmitoylethanolamide and N-oleoylethanolamide on vasorelaxation to anandamide occur through TRPV1 receptors. (full – 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597234/?tool=pubmed>

Acute hypertension reveals depressor and vasodilator effects of cannabinoids in conscious rats (full - 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697765/?tool=pmcentrez>

Medical Marijuana and Hypertension (news – 2009) <https://www.marijuanadoctors.com/content/ailments/view/144?ailment=hypertension>

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N-arachidonoyl glycine, an endogenous lipid that acts as a vasorelaxant via nitric oxide and large conductance calcium-activated potassium channels. (full – 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931560/>

Cannabinoid and GABA modulation of sympathetic nerve activity and blood pressure in the dorsal periaqueductal gray of the rat (full – 2011) <http://ajpregu.physiology.org/content/301/6/R1765.full>

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Cannabidiol as an emergent therapeutic strategy for lessening the impact of inflammation on oxidative stress. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21238581>

Low-volume binary drug therapy for the treatment of hypovolemia. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21330941>

Medial prefrontal cortex endocannabinoid system modulates baroreflex activity through CB1 receptors (full – 2012) <http://ajpregu.physiology.org/content/302/7/R876>

Serum contents of endocannabinoids are correlated with blood pressure in depressed women. (full – 2012) <http://www.lipidworld.com/content/pdf/1476-511X-11-32.pdf>

Vascular metabolism of anandamide to arachidonic acid affects myogenic constriction in response to intraluminal pressure elevation. (abst – 2012)
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Role of endocannabinoids and cannabinoid-1 receptors in cerebrocortical blood flow regulation. (full – 2013) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3537620/>

Mechanisms of vasorelaxation induced by oleoylethanolamide in the rat small mesenteric artery. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23340219>

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<http://www.ncbi.nlm.nih.gov/pubmed/23340220>

Cannabinoid receptor activation in the nucleus tractus solitaries produces baroreflex-like responses in the rat. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23675095>

Mechanism of Central Atypical Cannabinoid Receptor GPR18-Mediated Hypotension in Conscious Rats (abst – 2013)
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/654.15?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

Role of Central Atypical Cannabinoid Receptor GPR18 in Modulating Cardiovascular Function (abst – 2013)
http://www.fasebj.org/cgi/content/meeting_abstract/26/1_MeetingAbstracts/663.10?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

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<http://www.ncbi.nlm.nih.gov/pubmed/24020800>

Preventive and treatment effects of a hemp seed (*Cannabis sativa* L.) meal protein hydrolysate against high blood pressure in spontaneously hypertensive rats. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24292743>

Vascular targets for cannabinoids: animal and human studies. (abst – 2013)
<http://www.ncbi.nlm.nih.gov/pubmed/24329566>

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<http://jpet.aspetjournals.org/content/early/2014/01/15/jpet.113.209213.long>

BONES - see OSTEOPOROSIS

BONE MARROW

Cannabinoids stimulate fibroblastic colony formation by bone marrow cells indirectly via CB2 receptors. (abst – 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17205329>

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>

Cannabinoid Receptor 2 Deficiency in Haematopoietic cells Aggravates Early Atherosclerosis in LDL Receptor Deficient Mice (full – 2011)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3109635/?tool=pubmed>

Regulation of hematopoietic stem cell trafficking and mobilization by the endocannabinoid system. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22074629>

Cannabinoid receptor 2 and its agonists mediate hematopoiesis and hematopoietic stem and progenitor cell mobilization. (abst – 2011)
<http://www.ncbi.nlm.nih.gov/pubmed/21063029>

BORDERLINE PERSONALITY DISORDER

Identity disturbance and substance-dependence in patients with borderline personality disorder. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24494099>

BOWEL DISORDERS * - also see GERD, COLITIS, IBS, CROHN'S

Effects of cannabidiol derivatives on intestinal motility (abst - undated)
<http://www.docstoc.com/docs/26071658/Effects-of-cannabidiol-derivatives-on-intestinal-motility->

Central and peripheral cannabinoid modulation of gastrointestinal transit in physiological states or during the diarrhoea induced by croton oil (full - 2000)
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1572019&tool=pmcentrez>

Modulation of peristalsis by cannabinoid CB1 ligands in the isolated guinea-pig ileum (full - 2000) <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1571902&tool=pmcentrez>

Inhibition of small intestinal secretion by cannabinoids is CB1 receptor-mediated in rats (abst – 2000) <http://www.sciencedirect.com/science/article/pii/S0014299900008438>

Cannabinoid CB1-mediated inhibition of stress-induced gastric ulcers in rats (abst – 2000) <http://www.springerlink.com/content/w3jc8rk16k9p92fl/>

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572987/?tool=pmcentrez>

Cannabinoids and the gastrointestinal tract (full - 2001)
<http://gut.bmj.com/content/48/6/859.full>

Patent 6410588 Use of cannabinoids as anti-inflammatory agents (full – 2002)
<http://www.patentstorm.us/patents/6410588/fulltext.html>

Endocannabinoids as physiological regulators of colonic propulsion in mice. (abst – 2002) <http://www.ncbi.nlm.nih.gov/pubmed/12105851>

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MAD COW/ CRUETZFELDT-JACOB DISEASE - also see PRIONS

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NEUROPATHIC PAIN *

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YOUNG ADULTS - see CHILDREN/ YOUNG ADULTS