

Approved Medical Conditions in Louisiana and Randomized Controlled Trial (RCT) Data to Support Recommendations for Cannabis-based Medicines

Medical Condition	Study	1st Author	Year	CBD:THC Ratios	Links to Articles
Intractable Pain					
Malignant Disease - Pain	Pharmacotherapeutic considerations for use of cannabinoids to relieve pain in patients with malignant diseases	M Darkovska-Serafimovska	2018	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/29719417
Chronic Pain	Systematic reviews on therapeutic efficacy and safety of Cannabis (including extracts and tinctures) for patients with multiple sclerosis, chronic neuropathic pain, dementia and Tourette syndrome, HIV/AIDS, and cancer receiving chemotherapy	L Amato	2017	1:1 Sativex	https://www.who.int/medicines/access/controlled-substances/Systematic_reviews_on_therapeutic_efficacy_and_safety.pdf?ua=1
Neuropathic Pain - MS	A double-blind, randomized, placebo-controlled, parallel-group study of THC/CBD oromucosal spray in combination with the existing treatment regimen, in the relief of central neuropathic pain in patients with multiple sclerosis	RM Langford	2013	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/23180178
Neuropathic Pain - MS	Oromucosal delta9-tetrahydrocannabinol/cannabidiol for neuropathic pain associated with multiple sclerosis: an uncontrolled, open-label, 2-year extension trial	D Rog	2007	1:1 Sativex	https://www.semanticscholar.org/paper/Oromucosal-delta9-tetrahydrocannabinol/cannabidiol-Rog-Nurmikko/0bc91ae3b29cb391a29fa0e48e7b3a3863e9414f
Neuropathic Pain - MS	Randomized, controlled trial of cannabis-based medicine in central pain in multiple sclerosis	D Rog	2005	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/16186518
Non-cardiac Chest Pain	Dronabinol increases pain threshold in patients with functional chest pain: a pilot double-blind placebo-controlled trial	Z Malik	2016	THC-Dronabinol	https://academic.oup.com/dote/article-abstract/30/2/1/2725531?redirectedFrom=PDF
Chronic Spinal Cord Injury	Effect of Cannabinoids on Spasticity and Neuropathic Pain in Spinal Cord Injured Persons	K Ethans	2015	THC-Dronabinol	https://clinicaltrials.gov/ct2/show/NCT01222468?term=DRONABINOL&cond=spasticity&draw=2&rank=7
Pancreatitis - Abdominal Pain	Δ9-THC (Namisol®) in Chronic Pancreatitis Patients Suffering From Persistent Abdominal Pain	H Van Goor	2014	THC-Namisol	https://clinicaltrials.gov/ct2/show/NCT01551511?term=Marinol&cond=pain&rank=10
Neuropathic Pain - MS	Efficacy and Safety of the Pain Relieving Effect of Dronabinol in Central Neuropathic Pain Related to Multiple Sclerosis	S Schimrgk	2010	THC-Dronabinol	https://clinicaltrials.gov/ct2/show/NCT00959218?term=Marinol&cond=pain&rank=5
Neurological Pain	A Study to Evaluate the Effects of Cannabis Based Medicine in Patients With Pain of Neurological Origin	W Notcutt	2002	THC-Marinol	https://clinicaltrials.gov/ct2/show/NCT01606176?term=Marinol&cond=pain&draw=2&rank=20
Cancer - Pain					
Cancer - Pain	Results of a Double-Blind, Randomized, Placebo-Controlled Study of Nabiximols Oromucosal Spray as an Adjunctive Therapy in Advanced Cancer Patients with Chronic Uncontrolled Pain	A Lichtman	2018	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/28923526
Cancer - Pain	Medical Marijuana Use in Oncology A Review	G Wilkie	2016	1:1 Sativex	https://jamanetwork.com/journals/jamaoncology/fullarticle/2504173
Adv Cancer - Pain	An open-label extension study to investigate the long-term safety and tolerability of THC/CBD oromucosal spray and oromucosal THC spray in patients with terminal cancer-related pain refractory to strong opioid analgesics	J Johnson	2013	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/23141881
Opioid-Refractory Cancer Pain	Nabiximols for opioid-treated cancer patients with poorly-controlled chronic pain: a randomized, placebo-controlled, graded-dose trial	RK Portenoy	2012	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/22483680

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Cancer - Pain	Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study of the Efficacy, Safety, and Tolerability of THC:CBD Extract & THC Extract in Patients w/Intractable Cancer-Related Pain	J Johnson	2010	1:1 Oro-mucosal spray	http://files.iowamedicalmarijuana.org/petition/2012/Johnson_2010.pdf
Cancer - Chemotherapy-induced nausea & vomiting					
Cancer - Childhood Chemo Nausea Vomiting	Antiemetic medication for prevention and treatment of chemotherapy induced nausea and vomiting in childhood	R Phillips	2016	THC-Cannabis	https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD007786.pub3/abstract
Chemotherapy Induced Nausea	Dronabinol for chemotherapy-induced nausea and vomiting unresponsive to antiemetics.	M May	2016	THC-Dronabinol	https://www.researchgate.net/publication/303029353_Dronabinol_for_chemotherapy-induced_nausea_and_vomiting_unresponsive_to_antiemetics
Cancer - Nausea and Vomiting	Cannabinoids for nausea and vomiting in adults with cancer receiving chemotherapy	LA Smith	2015	THC-Cannabis extracts	https://www.ncbi.nlm.nih.gov/pubmed/26561338
Cancer - Nausea and Vomiting	Regulation of nausea and vomiting by cannabinoids and the endocannabinoid system	KA Sharkey	2014	THC-Dronabinol, 1:1 Sativex	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3883513/
Cancer - Nausea and Vomiting	Efficacy of dronabinol alone and in combination with ondansetron versus ondansetron alone for delayed chemotherapy-induced nausea and vomiting	E Meiri	2007	THC-Dronabinol	https://www.ncbi.nlm.nih.gov/pubmed/17355735
AIDS/Positive HIV status-Adjunctive-treatment for side effects					
HIV/AIDS - Morbidity and Mortality	The medical use of cannabis for reducing morbidity and mortality in patients with HIV/AIDS.	EE Lutge	2013	THC-Cannabis	https://www.ncbi.nlm.nih.gov/pubmed/23633327
Cachexia or Wasting Syndrome					
Lung Cancer - Anorexia	The effect of nabilone on appetite, nutritional status, and quality of life in lung cancer patients: a randomized, double-blind clinical trial	JG Turcott	2018	THC-Nabilone	https://www.ncbi.nlm.nih.gov/pubmed/29550881
Anorexia and Weight Loss	Dronabinol oral solution in the management of anorexia and weight loss in AIDS and cancer	M Badowski	2018	THC-Dronabinol	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5896684/
HIV-Wasting Syndrome	A Phase I/II Study to Evaluate Single Agent and Combination Therapy With Megestrol Acetate and Dronabinol for the Treatment of HIV-Wasting Syndrome	G Galetto	2008	THC-Dronabinol Megestrol	https://clinicaltrials.gov/ct2/show/NCT00000737?term=DRONABINOL&cond=Cachexia&rank=1
Cancer - Anorexia	Dronabinol versus megestrol acetate versus combination therapy for cancer-associated anorexia: a North Central Cancer Treatment Group study	A Jatoi	2002	THC-Dronabinol	https://www.ncbi.nlm.nih.gov/pubmed/?term=Dronabinol+versus+megestrol+acetate+versus+combination+therapy+for+cancer-associated+anorexia%3A+a+North+Central+Cancer+Treatment+Group+study
Seizure Disorders					
Refer to Epilepsy Category					
Epilepsy					
Epilepsy - Children	Efficacy of CBD-enriched medical cannabis for treatment of refractory epilepsy in children and adolescents - An observational, longitudinal study	M Hausman-Kedem	2018	20:1	https://www.ncbi.nlm.nih.gov/pubmed/29674131
Epilepsy	Epilepsy and Cannabis: A Literature Review	S Zaheer	2018	CBD:THC and CBD	https://www.ncbi.nlm.nih.gov/pubmed/30443449

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Epilepsy - Pediatric	CBD-enriched medical cannabis for intractable pediatric epilepsy: The current Israeli experience	M Tzadok	2016	20:1	https://www.ncbi.nlm.nih.gov/pubmed/26800377
Epilepsy	Cannabinoids and Epilepsy	EC Rosenberg	2015	CBD	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4604191/
Epilepsy	Cannabinoids for epilepsy	D Gloss	2014	CBD	https://www.ncbi.nlm.nih.gov/pubmed/24595491
Multiple Sclerosis					
MS	Evidence for the efficacy and effectiveness of THC-CBD oromucosal spray in symptom management of patients with spasticity due to multiple sclerosis	U Zetti	2016	1:1 Oromucosal spray	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4710104/
MS	Tetrahydrocannabinol:Cannabidiol Oromucosal Spray for Multiple Sclerosis-Related Resistant Spasticity in Daily Practice	P Vermersch	2016	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/27732980
MS	Sativex(®) and clinical-neurophysiological measures of spasticity in progressive multiple sclerosis.	L Leocani	2015	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/26289497
MS-Neurologic Disorders	Systematic review: Efficacy and safety of medical marijuana in selected neurologic disorders	B Koppel	2014	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4011465/
MS	Advances in the management of multiple sclerosis spasticity: recent clinical trials.	O Fernandez	2014	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/25278117
MS	A double-blind, randomized, placebo-controlled, parallel-group study of Sativex, in subjects with symptoms of spasticity due to multiple sclerosis	C Collin	2010	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/20307378
MS	Randomized controlled trial of cannabis based medicine in spasticity caused by multiple sclerosis	C Collin	2007	1:1 Oromucosal spray	https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1468-1331.2006.01639.x
MS	Do cannabis-based medicinal extracts have general or specific effects on symptoms in multiple sclerosis? A double-blind, randomized, placebo-controlled study on 160 patients	D Wade	2004	1:1 Sativex	https://journals.sagepub.com/doi/10.1191/1352458504ms1082oa
Spasticity					
Spasticity	Clinical and Preclinical Evidence for Functional Interactions of Cannabidiol and Δ9-Tetrahydrocannabinol	D Boggs	2018	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5719112/
Chronic Spinal Cord Injury	Delta-9-tetrahydrocannabinol-cannabidiol in the treatment of spasticity in chronic spinal cord injury: a clinical experience	C Grao-Castellote	2017	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/28929471
Spasticity - MS Induced	Evidence for the efficacy and effectiveness of THC-CBD oromucosal spray in symptom management of patients with spasticity due to multiple sclerosis	U Zetti	2016	1:1 Oromucosal spray	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4710104/
Spasticity - MS Induced	Tetrahydrocannabinol:Cannabidiol Oromucosal Spray for Multiple Sclerosis-Related Resistant Spasticity in Daily Practice	P Vermersch	2016	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/27732980
Spasticity - MS Induced	Sativex® and clinical-neurophysiological measures of spasticity in progressive multiple sclerosis.	L Leocani	2015	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/26289497
Chronic Spinal Cord Injury	Effect of Cannabinoids on Spasticity and Neuropathic Pain in Spinal Cord Injured Persons	K Ethans	2015	THC-Dronabinol	https://clinicaltrials.gov/ct2/show/NCT01222468?term=DRONABINOL&cond=spasticity&draw=2&rank=7
Spasticity - MS Induced	Advances in the management of multiple sclerosis spasticity: recent clinical trials.	O Fernandez	2014	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/25278117

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Spasticity - MS Induced	A double-blind, randomized, placebo-controlled, parallel-group study of Sativex, in subjects with symptoms of spasticity due to multiple sclerosis	C Collin	2010	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/20307378
Spasms - ALS	Randomized Placebo-Controlled Crossover Trial With THC (Delta 9-Tetrahydrocannabinol) for the Treatment of Cramps in Amyotrophic Lateral Sclerosis (ALS)	M Weber	2009	THC-Dronabinol	https://clinicaltrials.gov/ct2/show/NCT00812851?term=DRONABINOL&cond=muscle+spasm&rank=1
Spasticity - MS Induced	Randomized controlled trial of cannabis based medicine in spasticity caused by multiple sclerosis	C Collin	2007	1:1 Oro-mucosal CBM	https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1468-1331.2006.01639.x
Spasticity - MS Induced	Do cannabis-based medicinal extracts have general or specific effects on symptoms in multiple sclerosis? A double-blind, randomized, placebo-controlled study on 160 patients	D Wade	2004	1:1 Sativex	https://journals.sagepub.com/doi/10.1191/1352458504ms1082oa
Severe Muscle Spasms					
	Refer to Spasticity Category				
Parkinson's Disease					
MS, Autism, Parkinsons, Alzheimers, Tourette's, Huntington's, Epilepsy	Neurological Disorders in Medical Use of Cannabis: An Update	R Solimini	2017	THC, CBD, plant	https://www.ncbi.nlm.nih.gov/pubmed/28412919
Parkinsons	The Therapeutic Potential of Cannabinoids for Movement Disorders	B Kluger	2015	THC-Nabilone	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4357541/
PD-Neurologic Disorders	Systematic review: Efficacy and safety of medical marijuana in selected neurologic disorders	B Koppel	2014	THC, plant	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4011465/
Parkinsons	Cannabis for dyskinesia in Parkinson disease A randomized double-blind crossover study	CB Carroll	2004	Extract-Oral Cannabis	https://n.neurology.org/content/63/7/1245.short
Parkinsons	Cannabinoids reduce levodopa-induced dyskinesia in Parkinson's disease: a pilot study	KA Sierdzan	2001	THC-Nabilone	https://www.ncbi.nlm.nih.gov/pubmed/11739835
Glaucoma					
Glaucoma	Marijuana and Glaucoma	T Graul	2018	THC	http://glaucomatoday.com/2018/04/marijuana-and-glaucoma/
Retinal Hemodynamics	Dronabinol and retinal hemodynamics in humans	N Plange	2007	THC-Dronabinol	https://www.ncbi.nlm.nih.gov/pubmed/17188063
Interocular Pressure	Effect of sublingual application of cannabinoids on intraocular pressure: a pilot study. [CBD shown to cause adverse events.]	I Tomida	2006	Sublingual THC & CBD	https://www.ncbi.nlm.nih.gov/pubmed/16988594
PTSD					
PTSD	Cannabinoids and post-traumatic stress disorder: clinical and preclinical evidence for treatment and prevention	M Zer-Aviv	2016	THC-Nabilone	https://www.ncbi.nlm.nih.gov/pubmed/27551883
PTSD - Nightmares	The efficacy of nabilone, a synthetic cannabinoid, in the treatment of PTSD-associated nightmares: A preliminary randomized, double-blind, placebo-controlled cross-over design study	R Jetly	2015	THC-Nabilone	https://www.ncbi.nlm.nih.gov/pubmed/25467221
PTSD	Preliminary, open-label, pilot study of add-on oral Δ9-tetrahydrocannabinol in chronic post-traumatic stress disorder	P Roitman	2014	Oral THC	https://www.ncbi.nlm.nih.gov/pubmed/24935052
PTSD - Nightmares, Insomnia, Chronic Pain	Use of a Synthetic Cannabinoid in a Correctional Population for Posttraumatic Stress Disorder-Related Insomnia and Nightmares, Chronic Pain, Harm Reduction, and Other Indications	C Cameron	2014	THC-Nabilone	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4165471/

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Autism Spectrum Disorder					
Autism	Cannabidiol Based Medical Cannabis in Children with Autism- a Retrospective Feasibility Study	A Aran	2018	20:1	https://n.neurology.org/content/90/15_Supplement/P3.318
Autism	Oral Cannabidiol Use in Children With Autism Spectrum Disorder to Treat Related Symptoms and Co-morbidities	D Barchel	2018	20:1	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6333745/
Crohn's Disease					
Crohns	Cannabis finds its way into treatment of Crohn's disease	R Schicho	2014	THC, plant	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4076530/pdf/emss-57264.pdf
Crohns	Side effects, health risks, and a short duration of action limit the usefulness of this drug	T Naftali	2013	THC	https://www.ncbi.nlm.nih.gov/pubmed/23648372
Muscular Dystrophy - Pain					
Malignant Disease - Pain	Pharmacotherapeutic considerations for use of cannabinoids to relieve pain in patients with malignant diseases	M Darkovska-Serafimovska	2018	1:1 Sativex	https://www.ncbi.nlm.nih.gov/pubmed/29719417