

CDA CLINICS RESEARCH DATABASE

Condition Treated	Cannabinoid/ Terpene	Effect	Dose	Review Study	Rating
Acne	THCV (Tetrahydrocannabivarin)	Anti-acne(major)	NA	Differential effectiveness of selected non-psychoactive phytocannabinoids on human sebocyte functions implicates their introduction in dry/seborrheic skin and acne treatment	2
Acute Lung Injury	CBD (Cannabidiol)	Antiinflammatory(moderate)	20mg/kg	Cannabidiol, a non-psychoactive plant-derived cannabinoid, decreases inflammation in a murine model of acute lung injury: Role for the adenosine A2A receptor	2
Acute Lung Injury	Eucalyptol	Antiinflammatory(major)	100/200/400mg/kg,	Eucalyptol suppresses matrix metalloproteinase-9 expression through an extracellular signal-regulated kinase-dependent nuclear factor-kappa B pathway to exert anti-inflammatory effects in an acute lung inflammation model	2
Acute Pancreatitis	CBD (Cannabidiol)	Antiinflammatory(major)	0.5mg/kg	Anti-inflammatory role of cannabidiol and O-1602 in cerulein-induced acute pancreatitis in mice	2
Acute Psychosocial Stress	THC (Tetrahydrocannabinol)	Anxiolytic(moderate)	7.5/12.5mg,	Dose-related effects of delta-9-THC (Tetrahydrocannabinol) on emotional responses to acute psychosocial stress	4
ADHD	THC (Tetrahydrocannabinol)	Improves behaviour(moderate)	71ng/mL	Cannabis improves symptoms of ADHD	3
ADHD	THC (Tetrahydrocannabinol)	Neuroprotectant(moderate)	NA	Oral Δ9-Tetrahydrocannabinol Improved Refractory Gilles de la Tourette Syndrome in an Adolescent by Increasing Intracortical Inhibition: A Case Report	3
AD-related Neuroinflammation	CBD (Cannabidiol)	Antiinflammatory(major)	2.5 or 10mg/kg	Cannabidiol in vivo blunts β-amyloid induced neuroinflammation by suppressing IL-1β and iNOS expression	2
Adult Aedes Aegypti (yellow fever mosquito)	Eucalyptol	Larvicidal(moderate)	NA	1,8-Cineole (Eucalyptol), a mosquito feeding and ovipositional repellent from volatile oil of Hemizonia fitchii (Asteraceae)	2
Aedes albopictus	Geraniol	Insect repellent(major)	0.250µg/cm ³	Host-Seeking and Blood-Feeding Behavior of Aedes albopictus (Diptera: Culicidae) Exposed to Vapors of Geraniol, Citral, Citronellal, Eugenol, or Anisaldehyde	2
Airway hypersecretion	Eucalyptol	Antiinflammatory(major)	200mg	Anti-inflammatory activity of 1,8-cineol (eucalyptol) in bronchial asthma: a double-blind placebo-controlled trial	4
Algesic	Limonene	Analgesic(moderate)	NA	Involvement of transient receptor potential A1 channel in algesic and analgesic actions of the organic compound limonene	2
ALS	CBN (Cannabinol)	Neuroprotectant(moderate)	5mg/kg	Cannabinol delays symptom onset in SOD1(G93A) transgenic mice without affecting survival	2

ALS	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	5mg	Tetrahydrocannabinol (THC (Tetrahydrocannabinol)) for cramps in amyotrophic lateral sclerosis: a randomised, double-blind crossover trial	4
ALS	THC (Tetrahydrocannabinol)	Neuroprotectant(moderate)	NA	The CB2 cannabinoid agonist AM-1241 prolongs survival in a transgenic mouse model of amyotrophic lateral sclerosis when initiated at symptom onset	2
Alzheimer's Disease	CBD (Cannabidiol)	Neuroprotectant(moderate)	NA	The marijuana component cannabidiol inhibits β-amyloid-induced tau protein hyperphosphorylation through Wnt/β-catenin pathway rescue in PC12 cells	2
Alzheimer's Disease	THC (Tetrahydrocannabinol)	Neuroprotectant(major)	NA	The potential therapeutic effects of THC (Tetrahydrocannabinol) on Alzheimer's disease	2
Alzheimer's Disease	THC (Tetrahydrocannabinol)	Neuroprotectant(major)	NA	Safety and Efficacy of Medical Cannabis Oil for Behavioral and Psychological Symptoms of Dementia: An Open Label, Add-On, Pilot Study.	2
Alzheimer's Disease	THC (Tetrahydrocannabinol)	Neuroprotectant(major)	NA	Tetrahydrocannabinol for neuropsychiatric symptoms in dementia: A randomized controlled trial.	
Anorexia	CBD (Cannabidiol)	Appetite Stimulant(major)	NA	Effects of Dronabinol on Anorexia and disturbed behavior in patients with Alzheimer's Disease	4
Anorexia	CBD (Cannabidiol)	Appetite Stimulant(major)	NA	Cannabis Use in Epilepsy and Anorexia- Two "N-of-One" Trials. (P6.039)	4
Anorexia	THC (Tetrahydrocannabinol)	Appetite Stimulant(moderate)	NA	A double-blind trial of delta 9-tetrahydrocannabinol in primary anorexia nervosa	4
Anorexia	THC (Tetrahydrocannabinol)	Appetite Stimulant(moderate)	NA	A phase II study of delta-9-tetrahydrocannabinol for appetite stimulation in cancer-associated anorexia.	4
Anxiety	CBD (Cannabidiol)	Anxiolytic(major)	600mg	Cannabidiol Reduces the Anxiety Induced by Simulated Public Speaking in Treatment-Naïve Social Phobia Patients	4
Anxiety	CBD (Cannabidiol)	Anxiolytic(major)	NA	Inverted U-Shaped Dose-Response Curve of the Anxiolytic Effect of Cannabidiol during Public Speaking in Real Life.	4
Anxiety	CBD (Cannabidiol)	Anxiolytic(major)	NA	Effectiveness of Cannabidiol Oil for Pediatric Anxiety and Insomnia as Part of Posttraumatic Stress Disorder: A Case Report	
Anxiety	CBD (Cannabidiol)	Anxiolytic(major)	NA	Cannabidiol enhances consolidation of explicit fear extinction in humans.	
Anxiety	Limonene	Anxiolytic(major)	25/50/75 mg/kg,	Evaluation of acute toxicity of a natural compound (+)-limonene epoxide and its anxiolytic-like action	2
Anxiety	D-Limonene	Neuroprotective(moderate)	15.21% of mixture	Neuropharmacological activities of phytoncide released from <i>Cryptomeria japonica</i>	1
Anxiety	Linalool	Anxiolytic(major)	NA	Evaluation of anxiolytic potency of essential oil and S-(+)-linalool from <i>Cinnamomum osmophloeum</i> ct. linalool leaves in mice	2
Anxiety	Linalool	Antidepressant(moderate)	NA	Linalool and β-pinene exert their antidepressant-like activity through the monoaminergic pathway	2

Anxiety	α -Pinene / β -Pinene	Anxiolytic(moderate)	NA	Expression of BDNF and TH mRNA in the Brain Following Inhaled Administration of α-Pinene	2
Anxiety	THC (Tetrahydrocannabinol)	Anxiolytic(moderate)	NA	Cannabinoid facilitation of fear extinction memory recall in humans	4
Anxiety	THC (Tetrahydrocannabinol)	Anxiolytic(moderate)	NA	Effects of delta-9-tetrahydrocannabinol on evaluation of emotional images.	4
Appetite Loss	CBD (Cannabidiol)	Appetite Stimulant(moderate)	NA	Cannabidiol attenuates the appetitive effects of Delta 9-tetrahydrocannabinol in humans smoking their chosen cannabis	3
Arthritis	Camphor	Antiinflammatory(moderate)	NA	Study on antiinflammatory effect of different chemotype of Cinnamomum camphora on rat arthritis model induced by Freund's adjuvant	1
Arthritis	CBD (Cannabidiol)	Antiarthritic(major)	5/25 mg/kg,	The nonpsychoactive cannabis constituent cannabidiol is an oral anti-arthritic therapeutic in murine collagen-induced arthritis	2
Asthma	Geraniol	Antiasthma(major)	100 or 200mg/kg	Effect of treatment with geraniol on ovalbumin-induced allergic asthma in mice	2
Asthma	THC (Tetrahydrocannabinol)	Bronchodilating activity(moderate)	15mg	Bronchodilator effect of delta-9-tetrahydrocannabinol administered by aerosol of asthmatic patients	4
Asthma	THC (Tetrahydrocannabinol)	Bronchodilating activity(moderate)	20mg	Effects of Smoked Marijuana in Experimentally Induced Asthma	4
Asthma	THC (Tetrahydrocannabinol)	Bronchodilating activity(moderate)	15mg	Acute Effects of Smoked Marijuana and Oral Δ9-Tetrahydrocannabinol on Specific Airway Conductance in Asthmatic Subjects	
Atherosclerosis	Geraniol	Antiinflammatory(moderate)	100mg/kg	Geraniol attenuates fibrosis and exerts anti-inflammatory effects on diet induced atherogenesis by NF-κB signaling pathway	2
Autonomic nerve activity, mood states	Linalool	Sedative(moderate)	NA	Sedative effects of the jasmine tea odor and (R)-(-)-linalool, one of its (major) odor components, on autonomic nerve activity and mood states	2
Bacterial Contamination	CBD (Cannabidiol)	Antibacterial(moderate)	50 μ g/ml	Antibacterial activity of Δ9-tetrahydrocannabinol and cannabidiol	2
Bacterial Contamination	CBD (Cannabidiol)	Antibacterial(moderate)	50 μ g/ml	Antibacterial Cannabinoids from Cannabis sativa: A Structure-Activity Study	2
Bacterial Contamination	Caryophyllene	Antibacterial(moderate)	10,54% of mixture	Chemical Composition, Antioxidant, Anti-Inflammatory and Anti-Proliferative Activities of Essential Oils of Plants from Burkina Faso	1
Bacterial Contamination	P-Cymene	Antibacterial(moderate)	0.25-1.25mM	Carvacrol and p-cymene inactivate Escherichia coli O157:H7 in apple juice	2
Bacterial Contamination	Fenchol (Fenchyl alcohol)	Antibacterial(moderate)	NA	Screening of antibacterial activities of twenty-one oxygenated monoterpenes	2
Bacterial Contamination	Geranyl Acetate	Antibacterial(major)	7.6% of mixture	Chemical Composition and Antibacterial Properties of Thymus longicaulis subsp. chaoubardii Oils: Three Chemotypes in the Same Population	1

Bacterial Contamination	Humulene	Antibacterial(major)	14.21% of mixture	In vitro antibacterial properties of essential oil and organic extracts of Premna integrifolia Linn	1
Bacterial Contamination	Myrcene	Antibacterial(major)	NA	New insights into antibacterial and antioxidant activities of rosemary essential oils and their main components	1
Bacterial Contamination	Ocimene	Antibacterial(major)	0.03–40.49% of mixture	Chemical composition and in vitro antibacterial activity of Pistacia terebinthus essential oils derived from wild populations in Kosovo	1
Bacterial Contamination	α -Pinene / β -Pinene	Antibacterial(major)	α -pinene (19.43%), & β -pinene (6.71%)	Antibacterial Activity and Anticancer Activity of Rosmarinus officinalis L. Essential Oil Compared to That of Its Main Components	1
Brain Injury	CBD (Cannabidiol)	Neuroprotectant(major)	300mg	Comparison of Cannabidiol, Antioxidants, and Diuretics in Reversing Binge Ethanol-Induced Neurotoxicity	2
Brain Injury	CBD (Cannabidiol)	Neuroprotectant(major)	NA	The neuroprotective effect of cannabidiol in an in vitro model of newborn hypoxic-ischemic brain damage in mice is mediated by CB2 and adenosine receptors	2
Brain Injury	CBD (Cannabidiol)	Neuroprotectant(major)	NA	Neuroprotective Effects of the Nonpsychoactive Cannabinoid Cannabidiol in Hypoxic-Ischemic Newborn Piglets	
Brain tumour	Terpinolene	Anticancer(moderate)	10/25/50/100/200/400mg/L,	Anticancer and Antioxidant Properties of Terpinolene in Rat Brain Cells	2
Breast Cancer	Linalool	Anticancer (moderate)	NA	Linalool, a plant-derived monoterpene alcohol, reverses doxorubicin resistance in human breast adenocarcinoma cells	2
Breast Cancer	α -Terpineol	Breast cancer (moderate)	5.4 μ g/mL	The effect of α-terpineol on cell cycle, apoptosis and Bcl-2 family protein expression of breast cancer cell line MCF-7	2
Breast Cancer	Terpinolene	Anticancer (moderate)	8.4% of mixture	Essential oil constituents, anticancer and antimicrobial activity of Ficus mucoso and Casuarina equisetifolia leaves	1
Breathing Difficulties	CBD (Cannabidiol)	Antidyspnoea(moderate)	10mg	Cannabinoid effects on ventilation and breathlessness: A pilot study of efficacy and safety	4
Breathing Difficulties	THC (Tetrahydrocannabinol)	Bronchodilating activity(moderate)	20mg	Acute and subacute bronchial effects of oral cannabinoids	4
Botrytis Cinerea	Terpinolene	Antifungal(moderate)	NA	Antifungal modes of action of tea tree oil and its two characteristic components against Botrytis cinerea	1
Buccal bacteria	α -trans-Bergamotene	Antibacterial (moderate)	29.9% of mixture	Chemical composition, antioxidant and antibacterial activities of essential oils from leaves and flowers of Eugenia klotzschiana Berg (Myrtaceae)	1
Buccal bacteria	Geraniol	Chemopreventive (major)	250mg/kg	Chemopreventive efficacy of geraniol against 7,12-dimethylbenz[<i>a</i>]anthracene-induced hamster buccal pouch carcinogenesis	2
Cancer	Borneol	Anticancer(major)	NA	Natural Borneol, a Monoterpenoid Compound, Potentiates Selenocystine-Induced Apoptosis in Human Hepatocellular Carcinoma Cells by Enhancement of Cellular Uptake and Activation of ROS-Mediated DNA Damage	2

Cancer	CBD (Cannabidiol)	Anticancer(major)	NA	The Combination of Cannabidiol and Δ9-Tetrahydrocannabinol Enhances the Anticancer Effects of Radiation in an Orthotopic Murine Glioma Model	2
Cancer	CBD (Cannabidiol)	Anticancer(major)	NA	Antineoplastic Activity of Cannabinoids	2
Cancer	CBD (Cannabidiol)	Anticancer(major)	NA	In Vitro Anticancer Activity of Plant-Derived Cannabidiol on Prostate Cancer Cell Line	2
Cancer	CBD (Cannabidiol)	Antiproliferative(moderate)	1–10 μM	Non-THC (Tetrahydrocannabinol) cannabinoids inhibit prostate carcinoma growth in vitro and in vivo: pro-apoptotic effects and underlying mechanisms	2
Cancer	CBD (Cannabidiol)	Antiproliferative(moderate)		Physiological intestinal oxygen modulates the Caco-2 cell model and increases sensitivity to the phytocannabinoid cannabidiol	2
Cancer	CBD (Cannabidiol)	Antitumor(major)	NA	Modulation of the tumor microenvironment and inhibition of EGF/EGFR pathway: Novel anti-tumor mechanisms of Cannabidiol in breast cancer	2
Cancer	CBD (Cannabidiol)	Antitumor(major)	NA	Antitumor Activity of Plant Cannabinoids with Emphasis on the Effect of Cannabidiol on Human Breast Carcinoma	2
Cancer	CBD (Cannabidiol)	Antitumor(major)	NA	Antitumor Effects of Cannabidiol, a Nonpsychoactive Cannabinoid, on Human Glioma Cell Lines	2
Cancer	CBD (Cannabidiol)	Antitumor(major)	NA	Chemopreventive effect of the non-psychoactive phytocannabinoid cannabidiol on experimental colon cancer	2
Cancer	CBD (Cannabidiol)	Antitumor(major)	NA	Cannabidiol, a Non-Psychoactive Cannabinoid Compound, Inhibits Proliferation and Invasion in U87-MG and T98G Glioma Cells through a Multitarget Effect	2
Cancer	CBD (Cannabidiol)	Antitumor(major)	NA	Cannabidiol inhibits human glioma cell migration through a cannabinoid receptor-independent mechanism	2
Cancer	CBDA (Cannabidiolic Acid)	Anticancer(moderate)	NA	Cannabidiolic acid, a (major) cannabinoid in fiber-type cannabis, is an inhibitor of MDA-MB-231 breast cancer cell migration	2
Cancer	CBG (Cannabigerol)	Antitumor(major)	NA	Boron trifluoride etherate on silica-A modified lewis acid reagent (VII). Antitumor activity of cannabigerol against human oral epitheloid carcinoma cells	2
Cancer	CBG (Cannabigerol)	Antitumor(major)	NA	Synthesis and antitumor activity of cannabigerol	2
Cancer	Caryophyllene	Anticancer(major)	10.54% of mixture	Chemical Composition, Antioxidant, Anti-Inflammatory and Anti-Proliferative Activities of Essential Oils of Plants from Burkina Faso	1
Cancer	Caryophyllene oxide	Anticancer(moderate)	17.9% of mixture	Chemical Composition, Antioxidant, Anti-Inflammatory and Anti-Proliferative Activities of Essential Oils of Plants from Burkina Faso	1

Cancer	Humulene	Anticancer(major)	32µg/mL	Potentiating effect of β-caryophyllene on anticancer activity of α-humulene, isocaryophyllene and paclitaxel	2
Cancer	Humulene	Antitumor(moderate)	NA	Antitumor activity of balsam fir oil: production of reactive oxygen species induced by alpha-humulene as possible mechanism of action	1
Cancer	Linalool	Antitumor(moderate)	NA	Linalool Exhibits Cytotoxic Effects by Activating Antitumor Immunity	2
Cancer	α-Pinene / β-Pinene	Anticancer(major)	α-pinene (19.43%),	Antibacterial Activity and Anticancer Activity of Rosmarinus officinalis L. Essential Oil Compared to That of Its Main Components	1
Cancer	α-Pinene / β-Pinene	Anticancer(major)	β-pinene (6.71%)	Antibacterial Activity and Anticancer Activity of Rosmarinus officinalis L. Essential Oil Compared to That of Its Main Components	1
Cancer	Terpineol	Anticancer(moderate)	3 or 6mM	α Terpineol: A Potential Anticancer Agent which Acts through Suppressing NF-κB Signalling	2
Cancer	Terpineol	Antiproliferative(moderate)	NA	Evaluation of the antioxidant and antiproliferative potential of bioflavors	2
Cardiovascular Complications	CBD (Cannabidiol)	Cardiac Protection(major)	NA	Cannabidiol Attenuates Cardiac Dysfunction, Oxidative Stress, Fibrosis, and Inflammatory and Cell Death Signaling Pathways in Diabetic Cardiomyopathy	2
Central neuropathic pain)	CBD (Cannabidiol)	Analgesic(moderate)	25mg/mL	Oromucosal Δ9-tetrahydrocannabinol/cannabidiol for neuropathic pain associated with multiple sclerosis: An uncontrolled, open-label, 2-year extension trial	3
Cerebral Ischemic Injury	Caryophyllene	Neuroprotective(major)	10mg/kg	Protective Effect of β-Caryophyllene, a Natural Bicyclic Sesquiterpene, Against Cerebral Ischemic Injury	2
Certain forms of the cytochrome P-450 isoenzymes	Myrcene	Antimutagenic(minor)	1,000µg/ml	Evaluation of the mutagenicity of β-myrcene in mammalian cells in vitro	2
Cervical cancer	α-Terpineol	Cytotoxicity(moderate)	12.46/13.12 µg/mL,	Cytotoxicity of α-terpineol in HeLa cell line and its effects to apoptosis and cell cycle	2
Cervical cancer	Camphene	Anticancer(moderate)	NA	The in-vitro evaluation of antibacterial, antifungal and cytotoxic properties of Marrubium vulgare L. essential oil grown in Tunisia	1
Cervical cancer	Camphene	Antiinflammatory(moderate)	NA	The in-vitro evaluation of antibacterial, antifungal and cytotoxic properties of Marrubium vulgare L. essential oil grown in Tunisia	1
Chronic Pain	CBD (Cannabidiol)	Antiinflammatory(minor)	2.5–20mg/kg,	The non-psychoactive cannabis constituent cannabidiol is an orally effective therapeutic agent in rat chronic inflammatory and neuropathic pain	2
Colitis	CBC (Cannabichromene)	Antiinflammatory(major)	NA	The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis	2
Colitis	Eucalyptol	Antiinflammatory(moderate)	200/400 mg/kg,	1,8-cineole (eucalyptol), a monoterpene oxide attenuates the colonic damage in rats on acute TNBS-colitis	2

Colon cancer	Linalool	Anticancer(moderate)	100/200 µg/kg,	Anticancer effect of linalool via cancer-specific hydroxyl radical generation in human colon cancer	2
Chronic inflammatory disorders	Menthol	Antiinflammatory(moderate)	NA	The anti-inflammatory activity of L-menthol compared to mint oil in human monocytes in vitro: a novel perspective for its therapeutic use in inflammatory diseases	2
Chronic myelogenous leukemia	α-Terpineol	Antiproliferative(major)	12.66% of mixture	Phytochemical analysis, antiproliferative against k562 humam chronic myelogenous leukemia, antiviral and hypoglycaemic activities of cedrus species and medicinal plants native from Libanon	1
Crohn's Disease	THC (Tetrahydrocannabinol)	Antiinflammatory(minor)	115mg	Cannabis induces a clinical response in patients with Crohn's disease: a prospective placebo-controlled study	4
Cold and mechanical hyperalgesia	Phellandrene	Antihyperanalgesia(moderate)	11mg/kg	Antihyperalgesic and antidepressive actions of (R)-(+)-limonene, α-phellandrene, and essential oil from Schinus terebinthifolius fruits in a neuropathic pain model	2
Dementia	THC (Tetrahydrocannabinol)	Neuroprotective(moderate)	3mg	Effects of tetrahydrocannabinol on balance and gait in patients with dementia: A randomised controlled crossover trial	4
Depression	CBC (Cannabichromene)	Antidepressant(major)	20/40/80 mg/kg,	Antidepressant-like effect of delta9-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L.	2
Depression	CBD (Cannabidiol)	Antidepressant(moderate)	30mg/kg	Antidepressant-like effects of cannabidiol in mice: possible involvement of 5-HT1A receptors	2
Depression	CBD (Cannabidiol)	Antidepressant(moderate)	30mg/kg	Prohedonic Effect of Cannabidiol in a Rat Model of Depression.	2
Depression	Camphor	Antidepressant(moderate)	4.91% of mixture	An Investigation of Anti-Depressant Activity of Cinnamomum Camphora Oil in Experimental Mice	1
Depression	Caryophyllene	Anxiolytic(moderate)	50mg/kg	β-Caryophyllene, a CB2 receptor agonist produces multiple behavioral changes relevant to anxiety and depression in mice	2
Depression	Linalool	Antidepressant(moderate)	50/160/500 mg/kg,	Subchronic Administration of Linalool Decreases Depressive-Like Behaviour in Restrained Rats	2
Depression	α-Pinene / β-Pinene	Antidepressant(moderate)	NA	Linalool and β-pinene exert their antidepressant-like activity through the monoaminergic pathway	2
Dermatitis, Skin Lesion	D-Limonene	Skin Repair(major)	NA	Skin Repair Properties of d-Limonene and Perillyl Alcohol in Murine Models	2
Dermatophytes and Cryptococcus neoformans	Sabinene	Antifungal(moderate)	29% of mixture	Antifungal, antioxidant and anti-inflammatory activities of Oenanthe crocata L. essential oil	1
Diabetes	CBD (Cannabidiol)	Antidiabetic(moderate)	100mg	Efficacy and Safety of Cannabidiol and Tetrahydrocannabivarin on Glycemic and Lipid Parameters in Patients With Type 2 Diabetes: A Randomized, Double-Blind, Placebo-Controlled, Parallel Group Pilot Study	4

Diabetes	D-Limonene	Antidiabetic(moderate)	NA	Protective Effects of d-Limonene on Lipid Peroxidation and Antioxidant Enzymes in Streptozotocin-Induced Diabetic Rats	1
Diabetes	THCV (Tetrahydrocannabivarin)	Antidiabetic(moderate)	5mg	Efficacy and Safety of Cannabidiol and Tetrahydrocannabivarin on Glycemic and Lipid Parameters in Patients With Type 2 Diabetes: A Randomized, Double-Blind, Placebo-Controlled, Parallel Group Pilot Study	4
Diabetic Complications	CBD (Cannabidiol)	Antiinflammatory(major)	NA	Cannabidiol Attenuates Cardiac Dysfunction, Oxidative Stress, Fibrosis, and Inflammatory and Cell Death Signaling Pathways in Diabetic Cardiomyopathy	2
Diabetic Complications	CBD (Cannabidiol)	Antiinflammatory(major)	NA	Cannabidiol attenuates high glucose-induced endothelial cell inflammatory response and barrier disruption	2
Dystonia	CBD (Cannabidiol)	Antidystonic and Parkinsonism-aggravating(moderate)	100 to 600mg	Open label evaluation of cannabidiol in dystonic movement disorders	3
Dystonia	CBD (Cannabidiol)	Antidystonic(moderate)	200mg	Cannabidiol in dystonic movement disorders	3
Edema	α -Bisabolol	Antiinflammatory(major)	NA	Anti-nociceptive and anti-inflammatory activities of (-)-α-bisabolol in rodents	2
Edema	CBC (Cannabichromene)	Antiinflammatory(major)	NA	Anti-inflammatory properties of cannabichromene	2
Edema	CBC (Cannabichromene)	Antiinflammatory(major)	NA	Biological Activity of Canabichromene, its Homologs and Isomers	2
Edema	Δ -3-Carene	Antiinflammatory(moderate)	NA	Pharmacological activity of the essential oil of Bupleurum gibraltarium: anti-inflammatory activity and effects on isolated rat uteri	2
Edema	Eucalyptol	Antiinflammatory(moderate)	NA	Antiinflammatory and antinociceptive effects of 1,8-cineole a terpenoid oxide present in many plant essential oils	2
Edema	Humulene	Antiinflammatory(major)	NA	Anti-inflammatory effects of compounds alpha-humulene and (-)-trans-caryophyllene isolated from the essential oil of Cordia verbenacea	2
Edema	Isopulegol	Antiinflammatory(major)	22.02% of mixture	In Vivo Potential Anti-Inflammatory Activity of Melissa officinalis L. Essential Oil	2
Edema	Limonene	Antiinflammatory(major)	25/50/75 mg/kg,	Physio-pharmacological Investigations About the Anti-inflammatory and Antinociceptive Efficacy of (+)-Limonene Epoxide	2
Edema	Linalool	Antiinflammatory(moderate)	NA	α-Pinene, linalool, and 1-octanol contribute to the topical anti-inflammatory and analgesic activities of frankincense by inhibiting COX-2	2
Edema	Phytol	Antiinflammatory(moderate)	7.5/25/50/75 mg/kg,	Phytol, a diterpene alcohol, inhibits the inflammatory response by reducing cytokine production and oxidative stress	2
Edema	Terpineol	Antiinflammatory(moderate)	NA	A Study on Anti-Inflammatory and Peripheral Analgesic Action of Salvia sclarea Oil and Its Main Components	1
Edema	α -Terpineol	Antiinflammatory(major)	6.2% of mixture	Chemical constituents and antiinflammatory activity of leaf essential oil of Nigerian grown Chenopodium album L.	1

Edema	THC (Tetrahydrocannabinol)	Antiinflammatory(minor)	NA	Antipyretic, analgesic and anti-inflammatory effects of Δ9-tetrahydrocannabinol in the rat	2
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	5mg, 10mg, 15mg	Physiologic observations in a controlled clinical trial of the antiemetic effectiveness of 5, 10, and 15 mg of delta 9-tetrahydrocannabinol in cancer chemotherapy. Ophthalmologic implications	4
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	NA	Antiemetic Effect of Tetrahydrocannabinol Compared With Placebo and Prochlorperazine in Chemotherapy-Associated Nausea and Emesis	4
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	NA	Efficacy of tetrahydrocannabinol in patients refractory to standard antiemetic therapy	4
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	NA	Antiemetic efficacy of levonantradol compared to delta-9-tetrahydrocannabinol for chemotherapy-induced nausea and vomiting.	4
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	NA	Antiemetics in Patients Receiving Chemotherapy for Cancer — A Randomized Comparison of Delta-9-Tetrahydrocannabinol and Prochlorperazine	4
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	NA	The antiemetic activity of tetrahydrocannabinol versus metoclopramide and thiethylperazine in patients undergoing cancer chemotherapy.	4
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	NA	Comparative Trial of the Antiemetic Effects of THC and Haloperidol	4
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	NA	Delta-9-Tetrahydrocannabinol as an Antiemetic in Cancer Patients Receiving High-Dose Methotrexate: A Prospective, Randomized Evaluation	4
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	NA	An efficient new cannabinoid antiemetic in pediatric oncology	4
Emetic activity	THC (Tetrahydrocannabinol)	Antiemetic(major)	NA	Antiemetic Effect of Delta-9-Tetrahydrocannabinol in Patients Receiving Cancer Chemotherapy	4
Epilepsy	CBD (Cannabidiol)	Antiepileptic(moderate)	200-300mg	Chronic administration of cannabidiol to healthy volunteers and epileptic patients	4
Epilepsy	CBD (Cannabidiol)	Antiepileptic(moderate)	5-50mg/kg	Cannabidiol as a new treatment for drug-resistant epilepsy in tuberous sclerosis complex	4
Epilepsy	CBD (Cannabidiol)	Antiepileptic(moderate)	2-50mg/kg	Cannabidiol in patients with treatment-resistant epilepsy: an open-label interventional trial	4
Epilepsy	CBD (Cannabidiol)	Antiepileptic(moderate)	NA	Cannabidiol as a Potential Treatment for Febrile Infection-Related Epilepsy Syndrome (FIRES) in the Acute and Chronic Phases	4
Epilepsy	CBD (Cannabidiol)	Antiepileptic(moderate)	1-20mg/kg	CBD-enriched medical cannabis for intractable pediatric epilepsy: The current Israeli experience	4
Epilepsy	CBD (Cannabidiol)	Anticonvulsant(major)	1mg/kg-100mg/kg	Cannabidiol exerts anti-convulsant effects in animal models of temporal lobe and partial seizures	2

Epilepsy	CBD (Cannabidiol)	Anticonvulsant(major)	NA	Cannabis, cannabidiol, and epilepsy--from receptors to clinical response	2
Epilepsy	CBDV (Cannabidivarin)	Anticonvulsant(moderate)	NA	Cannabis in epilepsy: From clinical practice to basic research focusing on the possible role of cannabidivarin	2
Epilepsy	CBDV (Cannabidivarin)	Anticonvulsant(moderate)	50-422mg/kg	Cannabidivarin-rich cannabis extracts are anticonvulsant in mouse and rat via a CB1 receptor-independent mechanism	2
Epilepsy	CBDV (Cannabidivarin)	Anticonvulsant(moderate)	400mg/kg	Cannabidivarin (CBDV) suppresses pentylenetetrazole (PTZ)-induced increases in epilepsy-related gene expression	3
Epilepsy	Linalool	Anticonvulsant(moderate)	NA	Anticonvulsant properties of linalool in glutamate-related seizure models	2
Epilepsy	THCV (Tetrahydrocannabivarin)	Anticonvulsant(moderate)	0.25mg/kg	Δ9-Tetrahydrocannabivarin suppresses in vitro epileptiform and in vivo seizure activity in adult rats	2
Facial Emotion Recognition	CBD (Cannabidiol)	improves recognition of emotional facial(moderate)	16mg	Acute effects of delta-9-tetrahydrocannabinol, cannabidiol and their combination on facial emotion recognition: a randomised, double-blind, placebo-controlled study in cannabis users	4
Facial Emotion Recognition	THC (Tetrahydrocannabinol)	improves recognition of emotional facial(moderate)	8mg	Acute effects of delta-9-tetrahydrocannabinol, cannabidiol and their combination on facial emotion recognition: a randomised, double-blind, placebo-controlled study in cannabis users	4
Food-related microorganisms	D-Limonene	Antimicrobial(major)	NA	Effects of nisin on the antimicrobial activity of d-limonene and its nanoemulsion	2
Friend leukemia virus-induced splenomegaly	THC (Tetrahydrocannabinol)	Antileukemic(major)	200mg/kg	Antineoplastic Activity of Cannabinoids	2
Fungal Contamination	Borneol	Antifungal(major)	36.5% of mixture	Borneol-grafted cellulose for antifungal adhesion and fungal growth inhibition	2
Fungal Contamination	P-Cymene	Antifungal(moderate)	1000ppm	Studies on Antifungal Properties of Essential Oil of Trachyspermum ammi (L.) Sprague	1
Fungal Contamination	D-Limonene	Antifungal(minor)	56% of mixture,	Antifungal Activity of Thapsia villosa Essential Oil against Candida, Cryptococcus, Malassezia, Aspergillus and Dermatophyte Species	1
Fungal Contamination	Farnesene	Antifungal(major)	14.6–16.4% of mixture	Chemical Composition and in vitro Antifungal Properties of Essential Oils from Leaves and Flowers of Erigeron floribundus (H.B. et K.) Sch. Bip. From Cameroon	1
Fungal Contamination	Myrcene	Antifungal(moderate)	47.7–84.6% of mixture	Essential oils from Distichoselinum tenuifolium: Chemical composition, cytotoxicity, antifungal and anti-inflammatory properties	1
Fungal Contamination	Nerolidol	Antifungal(major)	NA	Evaluation of antifungal activity in essential oil of the Syzygium aromaticum (L.) by extraction, purification and analysis of its main component eugenol	1
Fungal Contamination	Ocimene	Antifungal(moderate)	30.4% of mixture	Antifungal activity of the essential oil of Angelica (major) against Candida, Cryptococcus, Aspergillus and dermatophyte species	1

Fungal Contamination	Phellandrene	Antifungal(moderate)	1.7/1.8 mL/L,	Anti-fungal activity, mechanism studies on α-Phellandrene and Nonanal against <i>Penicillium cyclopium</i>	2
Fungal Contamination	Sabinene	Antifungal(moderate)	31.1% of mixture	In Vivo Antifungal Activity of the Essential Oil of <i>Bupleurum gibraltarium</i> against <i>Plasmopara halstedii</i> in Sunflower	1
Gastric ulcer	α -Bisabolol	Gastroprotective(minor)	NA	(-)-α-Bisabolol-induced gastroprotection is associated with reduction in lipid peroxidation, superoxide dismutase activity and neutrophil migration	2
Gastric ulcer	Isopulegol	Gastroprotective(moderate)	NA	Gastroprotective activity of isopulegol on experimentally induced gastric lesions in mice: investigation of possible mechanisms of action	2
Gastric ulcer	Limonene	Gastroprotective(major)	NA	Gastroprotective mechanisms of Citrus lemon (<i>Rutaceae</i>) essential oil and its (major)ity compounds: limonene and β-pinene: Involvement of heat-shock protein-70, vasoactive intestinal peptide, glutathione, sulfhydryl compounds, nitric oxide and prostaglandin E2	1
Gastric ulcer	α -Pinene / β -Pinene	Gastroprotective(moderate)	NA	Gastroprotective effect of alpha-pinene and its correlation with antiulcerogenic activity of essential oils obtained from <i>Hyptis</i> species	1
Glaucoma	CBD (Cannabidiol)	Antiglaucoma(minor)	20/40 mg,	Effect of Sublingual Application of Cannabinoids on Intraocular Pressure: A Pilot Study	4
Glaucoma	CBG (Cannabigerol)	Antiglaucoma(moderate)	NA	A Comparison of the Ocular and Central Effects of Δ9-Tetrahydrocannabinol and Cannabigerol	2
Glaucoma	THC (Tetrahydrocannabinol)	Antiglaucoma(moderate)	2.8% of mixture	Effects of tetrahydrocannabinol on arterial and intraocular hypertension	2
Glaucoma	THC (Tetrahydrocannabinol)	Antiglaucoma(minor)	12mg	Marijuana smoking and reduced pressure in human eyes: drug action or epiphenomenon?	2
Glaucoma	THC (Tetrahydrocannabinol)	Antiglaucoma(minor)	0.4% of mixture	Topical Δ9-Tetrahydrocannabinol and Aqueous Dynamics in Glaucoma	4
Glioblastoma multiforme	CBD (Cannabidiol)	Anticancer(major)	NA	A Combined Preclinical Therapy of Cannabinoids and Temozolomide against Glioma	2
Glioblastoma multiforme	THC (Tetrahydrocannabinol)	Anticancer(major)	NA	A Combined Preclinical Therapy of Cannabinoids and Temozolomide against Glioma	2
Glioblastoma multiforme	THC (Tetrahydrocannabinol)	Antitumor(moderate)	NA	A pilot clinical study of Delta(9)-tetrahydrocannabinol in patients with recurrent glioblastoma multiforme	4
Glutamate induced pain	Linalool	Antinociceptive(minor)	NA	Evidence for the involvement of ionotropic glutamatergic receptors on the antinociceptive effect of (-)-linalool in mice	2
HaCaT keratinocytes	Sabinene	Cytotoxicity(minor)	26.2% of mixture	Essential Oil of <i>Juniperus communis</i> subsp. <i>alpina</i> (Suter). Čelak Needles: Chemical Composition, Antifungal Activity and Cytotoxicity	1

Halatosis	α -Bisabolol	Antimicrobial(minor)	NA	The antimicrobial activity of alpha-bisabolol and tea tree oil against Solobacterium moorei, a Gram-positive bacterium associated with halitosis	2
Hepatocellular carcinoma	Terpineol	Anticancer(moderate)	10/20 mg/kg,	4-Terpineol exhibits potent in vitro and in vivo anticancer effects in Hep-G2 hepatocellular carcinoma cells by suppressing cell migration and inducing apoptosis and sub-G1 cell cycle arrest	2
House fly (Musca domestica L.)	Pulegone	Insecticide(minor)	69.70% of mixture	Insecticidal activity of essential oils from native medicinal plants of Central Argentina against the house fly, Musca domestica (L.)	1
High heart rate and upset mood	Linalool	Sedative(moderate)	NA	Sedative effects of the jasmine tea odor and (R)-(-)-linalool, one of its (major) odor components, on autonomic nerve activity and mood states	2
HIV-infected	THC (Tetrahydrocannabinol)	Appetite Stimulant(moderate)	NA	A pilot study of the effects of cannabis on appetite hormones in HIV-infected adult men	4
Human chronic ulcers	D-Limonene	Healing property(moderate)	245mg/kg	Healing actions of essential oils from Citrus aurantium and d-limonene in the gastric mucosa: the roles of VEGF, PCNA, and COX-2 in cell proliferation	1
Human immune diseases	CBG (Cannabigerol)	Immunosuppressive(moderate)	NA	A Cannabigerol Derivative Suppresses Immune Responses and Protects Mice from Experimental Autoimmune Encephalomyelitis	2
Huntington's Disease	CBD (Cannabidiol)	Neuroprotective(moderate)	10mg/kg	Controlled clinical trial of cannabidiol in Huntington's disease	4
Huntington's Disease	CBG (Cannabigerol)	Neuroprotectant(moderate)	NA	VCE-003.2, a novel cannabigerol derivative, enhances neuronal progenitor cell survival and alleviates symptomatology in murine models of Huntington's disease	2
Huntington's Disease	CBG (Cannabigerol)	Neuroprotectant(moderate)	NA	Neuroprotective Properties of Cannabigerol in Huntington's Disease: Studies in R6/2 Mice and 3-Nitropropionate-lesioned Mice	2
Hyperalgesia	P-Cymene	Antihyperalgesic(moderate)	25/50/100 mg/kg,	The anti-hyperalgesic and anti-inflammatory profiles of p-cymene: Evidence for the involvement of opioid system and cytokines	2
Hyperalgesia	P-Cymene	Antiinflammatory(moderate)	25/50/100 mg/kg,	The anti-hyperalgesic and anti-inflammatory profiles of p-cymene: Evidence for the involvement of opioid system and cytokines	2
Hyperalgesia	Limonene	Antihyperalgesic(moderate)	10mg/kg	Limonene modulates the hyperalgesia and depressive-like behaviour through IL-1 and NFB regulation in mice	2
Hyperalgesia	Myrcene	Analgesic(minor)	NA	Myrcene mimics the peripheral analgesic activity of lemongrass tea	2
Hyperlipidemic	Camphene	Antihyperlipidemic(moderate)	30 μ g/gr	Camphene, a Plant-Derived Monoterpene, Reduces Plasma Cholesterol and Triglycerides in Hyperlipidemic Rats Independently of HMG-CoA Reductase Activity	2

Hyperlocomotion	CBD (Cannabidiol)	Antipsychotic(moderate)	15–60mg/kg	Cannabidiol inhibits the hyperlocomotion induced by psychotomimetic drugs in mice	2
Hypernociception	Phellandrene	Antinociceptive(major)	50mg/kg	Cannabidiol inhibits the hyperlocomotion induced by psychotomimetic drugs in mice	2
Immobility	CBD (Cannabidiol)	Antidepressant(moderate)	10–60nmol	Antidepressant-like effect of cannabidiol injection into the ventral medial prefrontal cortex—Possible involvement of 5-HT_{1A} and CB₁ receptors	2
Immobility	Limonene	Antidepressant(moderate)	10mg/kg	Antidepressant-like effect of cannabidiol injection into the ventral medial prefrontal cortex—Possible involvement of 5-HT_{1A} and CB₁ receptors	2
Immobility	Phellandrene	Antidepressant(moderate)	10mg/kg	Antihyperalgesic and antidepressive actions of (R)-(+)-limonene, α-phellandrene, and essential oil from <i>Schinus terebinthifolius</i> fruits in a neuropathic pain model	1
Immobility	THC (Tetrahydrocannabinol)	Antidepressant(moderate)	2.5mg/kg	Antidepressant-like effect of Δ^9-tetrahydrocannabinol and other cannabinoids isolated from <i>Cannabis sativa</i> L.	2
Immune System related diseases	CBD (Cannabidiol)	Auto-immunity(moderate)	2.5 or 5mg/kg	Cannabidiol-induced lymphopenia does not involve NKT and NK Cells	2
Inflammation	α -Bisabolol	Antiinflammatory(moderate)	NA	Inhibitory effects of (-)-α-bisabolol on LPS-induced inflammatory response in RAW264.7 macrophages	2
Inflammation	Borneol	Antiinflammatory(major)	NA	Analgesic and Anti-inflammation Effect of Borneol	2
Inflammation	Camphene	Antinociceptive(major)	NA	Antinociceptive Activity and Redox Profile of the Monoterpenes (+)-Camphene, p-Cymene, and Geranyl Acetate in Experimental Models	2
Inflammation	CBC (Cannabichromene)	Antiinflammatory(major)	10mg/kg	Inhibitory effect of cannabichromene, a (major) non-psychoactive cannabinoid extracted from <i>Cannabis sativa</i>, on inflammation-induced hypermotility in mice	2
Inflammation	CBD (Cannabidiol)	Antiinflammatory(moderate)	5–40mg/kg	Oral anti-inflammatory activity of cannabidiol, a non-psychoactive constituent of cannabis, in acute carrageenan-induced inflammation in the rat paw	2
Inflammation	CBDA (Cannabidiolic Acid)	Antiinflammatory(moderate)	NA	Evaluation of the Cyclooxygenase Inhibiting Effects of Six Major Cannabinoids Isolated from <i>Cannabis sativa</i>	2
Inflammation	CBDA (Cannabidiolic Acid)	Antiinflammatory(moderate)	NA	Cannabidiolic Acid as a Selective Cyclooxygenase-2 Inhibitory Component in Cannabis	2
Inflammation	Caryophyllene oxide	Antiinflammatory(major)	12.5/ 25 mg/kg,	Analgesic and anti-inflammatory activity of Caryophyllene oxide from <i>Annona squamosa</i> L. bark	2
Inflammation	p-Cymene	Antiinflammatory(moderate)	25/50/100 mg/kg,	Evaluation of the Anti-Inflammatory and Antinociceptive Properties of p-Cymene in Mice	2
Inflammation	Linalool	Antiinflammatory(major)	NA	Anti-inflammatory effects of linalool in RAW 264.7 macrophages and lipopolysaccharide-induced lung injury model	

Inflammation	Myrcene	Antiinflammatory(moderate)	47.7–84.6% of mixture	Essential oils from <i>Distichoselinum tenuifolium</i>: Chemical composition, cytotoxicity, antifungal and anti-inflammatory properties	1
Inflammation	α -Pinene / β -Pinene	Antiinflammatory(moderate)	NA	α-Pinene Exhibits Anti-Inflammatory Activity Through the Suppression of MAPKs and the NF-κB Pathway in Mouse Peritoneal Macrophages	2
Inflammation	Sabinene	Antiinflammatory (major)	29% of mixture	Antifungal, antioxidant and anti-inflammatory activities of <i>Oenanthe crocata</i> L. essential oil	1
Insomnia	CBD (Cannabidiol)	Improve Sleep(moderate)	6-12 / 25mg,	Effectiveness of Cannabidiol Oil for Pediatric Anxiety and Insomnia as Part of Posttraumatic Stress Disorder: A Case Report	3
Intestinal inflammation	THC (Tetrahydrocannabinol)	Antiinflammatory(moderate)	NA	Chronic Administration of Δ9-Tetrahydrocannabinol Induces Intestinal Anti-Inflammatory MicroRNA Expression during Acute Simian Immunodeficiency Virus Infection of Rhesus Macaques	2
Irritable bowel syndrome	CBG (Cannabigerol)	Antiinflammatory(major)	NA	Beneficial effect of the non-psychotropic plant cannabinoid cannabigerol on experimental inflammatory bowel disease	2
Ischaemia-reperfusion injury	THCV (Tetrahydrocannabivarin)	Antiinflammatory(moderate)	NA	Δ8-Tetrahydrocannabivarin prevents hepatic ischaemia/reperfusion injury by decreasing oxidative stress and inflammatory responses through cannabinoid CB₂ receptors	2
Leishmania species	Nerolidol	Antileishmanial(moderate)	100 μ M	Antileishmanial Activity of the Terpene Nerolidol	2
Leukemia	α -Terpineol	Antiproliferative(minor)	NA	Antioxidant and antiproliferative activities of essential oils of some wild Portuguese Thymus	1
Lipopolysaccharide induced acute lung injury	Cymene	Antiinflammatory(major)	NA	Protective effect of p-cymene on lipopolysaccharide-induced acute lung injury in mice	2
Lipopolysaccharide plus interferon gamma triggered macrophages	Sabinene	Antiinflammatory(moderate)	29% of mixture	Antifungal, antioxidant and anti-inflammatory activities of <i>Oenanthe crocata</i> L. essential oil	1
Liver cancer	Terpineol	Anticancer (moderate)	320 μ g/ml	γ-terpineol inhibits cell growth and induces apoptosis in human liver cancer BEL-7402 cells in vitro	2
Low feeding behaviour	CBN (Cannabinol)	Appetite Stimulant(minor)	NA	Cannabinol and cannabidiol exert opposing effects on rat feeding patterns	2
LPS-stimulated human macrophages	Terpineol-4-ol	Antiinflammatory(moderate)	NA	Terpinen-4-ol and alpha-terpineol (tea tree oil components) inhibit the production of IL-1β, IL-6 and IL-10 on human macrophages	2
Lung adenocarcinoma	β -Myrcene	Antitumor(major)	9.29% of mixture	Composition and antitumor activities of essential oil from the fruits of <i>Dasymaschalon trichophorum</i>	1
Lung cancer	Linalool	Anticancer (minor)	NA	A comparative study of cytotoxic, membrane and DNA damaging effects of <i>Origanum (majorana)</i>'s essential oil and its oxygenated monoterpene component linalool on parental and epirubicin-resistant H1299 cells	2

Macrophages and keratinocytes	Sabinene	Cytotoxicity(moderate)	29.% of mixture	Antifungal, antioxidant and anti-inflammatory activities of <i>Oenanthe crocata</i> L. essential oil	1
Malaria	Nerolidol	Antimalarial(moderate)	1000mg/kg	Antimalarial activity of the terpene nerolidol	2
Malaria	α -Terpineol	Antimalarial(moderate)	22.6% of mixture	Composition and antimalarial activity in vitro of the essential oil of <i>Tetradenia riparia</i>	1
Malassezia furfur	Terpinolene	Antifungal(major)	NA	Chemical Composition and Antifungal Activity of Plant Essential Oils against <i>Malassezia furfur</i>	1
Mechanical hyperalgesia	Limonene	Antihyperanalgesia(moderate)	10mg/kg	Antihyperalgesic and antidepressive actions of (R)-(+)-limonene, α-phellandrene, and essential oil from <i>Schinus terebinthifolius</i> fruits in a neuropathic pain model	2
Metabolic bone disorders	Δ -3-Carene	Bone stimulant(moderate)	NA	Low Concentration of 3-Carene Stimulates the Differentiation of Mouse Osteoblastic MC3T3-E1 Subclone 4 Cells	2
Microbiological Contamination	Borneol	Antimicrobial(moderate)	4.91% of mixture	Chemical Composition and Antimicrobial Activity of Essential Oil of Thyme (<i>Thymus vulgaris</i>) from Eastern Morocco	1
Microbiological Contamination	Camphene	Antimicrobial(moderate)	NA	The in-vitro evaluation of antibacterial, antifungal and cytotoxic properties of <i>Marrubium vulgare</i> L. essential oil grown in Tunisia	1
Microbiological Contamination	CBC (Cannabichromene)	Antimicrobial(major)	NA	Biological Activity of Cannabichromene, its Homologs and Isomers	2
Microbiological Contamination	CBC (Cannabichromene)	Antimicrobial(moderate)		Antibacterial Cannabinoids from <i>Cannabis sativa</i> Wa: A Structure-Activity Study	2
Microbiological Contamination	Caryophyllene	Antimicrobial(moderate)	7.8–500g/mL	Effects of β-caryophyllene and <i>Murraya paniculata</i> essential oil in the murine hepatoma cells and in the bacteria and fungi 24-h time-kill curve studies	2
Microbiological Contamination	Caryophyllene oxide	Antimicrobial(moderate)	60 to 80 μ g/ml	Compositions and antimicrobial activities of the essential oils of two <i>Hypericum</i> species from Turkey	1
Microbiological Contamination	Cedrol	Antimicrobial(minor)	6.3% of mixture	Volatile constituents of propolis from various regions of Greece–Antimicrobial activity	1
Microbiological Contamination	β -Cedrene	Antimicrobial(moderate)	6.1% of mixture	Chemical Composition, Antioxidant, Antimicrobial and Cytotoxic Activities of Essential Oil from <i>Premna microphylla</i> Turczaninow	1
Microbiological Contamination	P-Cymene	Antimicrobial(major)	NA	Antimicrobial and Antioxidant Activity of the Essential Oil and Methanol Extracts of <i>Thymus pectinatus</i> Fisch. et Mey. Var. <i>pectinatus</i> (Lamiaceae)	1
Microbiological Contamination	Farnesene	Antimicrobial(major)	51.5% of mixture	Chemical Composition, Antioxidant Properties, α-Glucosidase Inhibitory, and Antimicrobial Activity of Essential Oils from <i>Acacia mollissima</i> and <i>Acacia cyclops</i> Cultivated in Tunisia	1
Microbiological Contamination	Guaiol	Antimicrobial(minor)	8,2% of mixture	Chemical composition and evaluation of antibacterial and antioxidant activities of the essential oil of <i>Croton urucurana</i> Baillon (Euphorbiaceae) stem bark	1

Microbiological Contamination	Isoborneol	Antimicrobial(moderate)	14.66% of mixture	Gastroprotective activity of isopulegol on experimentally induced gastric lesions in mice: investigation of possible mechanisms of action	1
Microbiological Contamination	D-Limonene	Antimicrobial	94% of mixture	Orange Essential Oils. Antimicrobial Activities against	1
Microbiological Contamination	D-Limonene	(moderate)			1
Microbiological Contamination	Myrcene	Antimicrobial(moderate)	NA	Antimicrobial activity of the essential oil and different fractions of Juniperus communis L. and a comparison with some commercial antibiotics	1
Microbiological Contamination	α -Pinene / β -Pinene	Antimicrobial(major)	10,5% of mixture	Antimicrobial activity of the essential oil and different fractions of Juniperus communis L. and a comparison with some commercial antibiotics	1
Microbiological Contamination	Terpineol	Antimicrobial(major)	NA	Antimicrobial effect of vapours of terpineol, (R)-(-)-linalool, carvacrol, (S)-(-)-perillaldehyde and 1,8-cineole on airborne microbes using a room diffuser	2
Microbiological Contamination	α -Terpineol	Antimicrobial(minor)	13,0% of mixture	Antimicrobial Activity of Commercial Samples of Thyme and Marjoram Oils	1
Microbiological Contamination	Terpinolene	Antimicrobial(moderate)	8.4% of mixture	Essential oil constituents, anticancer and antimicrobial activity of Ficus mucoso and Casuarina equisetifolia leaves	1
Mosquito	Eucalyptol	Larvicidal(minor)	100mg/L	Bioactivity of Dianthus caryophyllus, Lepidium sativum, Pimpinella anisum, and Illicium verum essential oils and their (major) components against the West Nile vector Culex pipiens	1
Mosquito	Geraniol	Insect repellent(major)	NA	Efficacy of the botanical repellents geraniol, linalool, and citronella against mosquitoes	2
MRSA	CBG (Cannabigerol)	Antibacterial(moderate)	NA	Antibacterial Cannabinoids from Cannabis sativa: A Structure-Activity Study	2
MRSA	CBN (Cannabinol)	Antibacterial(moderate)	NA	Antibacterial Cannabinoids from Cannabis sativa: A Structure-Activity Study	2
Multiple Sclerosis	CBD (Cannabidiol)	Analgesic(moderate)	2-10inhalations	A double-blind, randomized, placebo-controlled, parallel-group study of THC (Tetrahydrocannabinol)/CBD (Cannabidiol) oromucosal spray in combination with the existing treatment regimen, in the relief of central neuropathic pain in patients with multiple sclerosis	3
Multiple Sclerosis	CBD (Cannabidiol)	Analgesic(moderate)	2.5mg	Randomized, controlled trial of cannabis-based medicine in central pain in multiple sclerosis	3
Multiple Sclerosis	CBD (Cannabidiol)	Antinociceptive(moderate)	NA	Cannabinoid-induced effects on the nociceptive system: a neurophysiological study in patients with secondary progressive multiple sclerosis	4
Multiple Sclerosis	CBD (Cannabidiol)	Antispasticity(moderate)	NA	Randomized controlled trial of cannabis-based medicine in spasticity caused by multiple sclerosis	4
Multiple Sclerosis	CBD (Cannabidiol)	Antispasticity(moderate)	NA	Clinical experience with THC:CBD oromucosal spray in patients with multiple sclerosis-related spasticity	4
Multiple Sclerosis	CBD (Cannabidiol)	Antispasticity(minor)	12mg	The effect of cannabinoids on the stretch reflex in multiple sclerosis spasticity	4

Multiple Sclerosis	CBD (Cannabidiol)	Improve neurogenic symptoms(moderate)	2.5–120mg	A preliminary controlled study to determine whether whole-plant cannabis extracts can improve intractable neurogenic symptoms	4
Multiple Sclerosis	CBD (Cannabidiol)	Urinary Protection(moderate)	2.5mg	An open-label pilot study of cannabis-based extracts for bladder dysfunction in advanced multiple sclerosis	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Analgesic(moderate)	NA	A double-blind, randomized, placebo-controlled, parallel-group study of THC (Tetrahydrocannabinol)/CBD (Cannabidiol) oromucosal spray in combination with the existing treatment regimen, in the relief of central neuropathic pain in patients with multiple sclerosis	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Analgesic(moderate)	2.7mg	Randomized, controlled trial of cannabis-based medicine in central pain in multiple sclerosis	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Analgesic(minor)	10mg	Does the cannabinoid dronabinol reduce central pain in multiple sclerosis? Randomised double blind placebo controlled crossover trial	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antiemetic(moderate)	15mg/m ²	Efficacy of tetrahydrocannabinol in patients refractory to standard antiemetic therapy.Efficacy, safety and tolerability of an orally administered cannabis extract in the treatment of spasticity in patients with multiple sclerosis: a randomized, double-blind, placebo-controlled, crossover study	3
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antinociceptive(moderate)	NA	Cannabinoid-induced effects on the nociceptive system: a neurophysiological study in patients with secondary progressive multiple sclerosis	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	33% of mixture	The effect of cannabis on urge incontinence in patients with multiple sclerosis: a multicentre, randomised placebo-controlled trial (CAMS-LUTS)	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Cannabinoids in multiple sclerosis (CAMS) study: safety and efficacy data for 12 months follow up	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Randomized controlled trial of cannabis-based medicine in spasticity caused by multiple sclerosis	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Smoked cannabis for spasticity in multiple sclerosis: a randomized, placebo-controlled trial	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Cannabinoids for treatment of spasticity and other symptoms related to multiple sclerosis (CAMS study): multicentre, randomised placebo-controlled trial	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Safety, tolerability, and efficacy of orally administered cannabinoids in MS	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	>7.5mg	Delta-9-THC in the Treatment of Spasticity Associated with Multiple Sclerosis	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	2.5-15mg	The effect of cannabinoids on the stretch reflex in multiple sclerosis spasticity	4

Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	A double-blind, randomized, placebo-controlled, parallel-group study of Sativex, in subjects with symptoms of spasticity due to multiple sclerosis	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	The perceived effects of smoked cannabis on patients with multiple sclerosis	4
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	4sprays	Clinical experience with THC:CBD oromucosal spray in patients with multiple sclerosis-related spasticity	
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Antitremor(moderate)	NA	Tetrahydrocannabinol for tremor in multiple sclerosis	3
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Urinary Protection(moderate)	2.5mg	An open-label pilot study of cannabis-based extracts for bladder dysfunction in advanced multiple sclerosis	3
Multiple Sclerosis	THC (Tetrahydrocannabinol)	Improve neurogenic symptoms(moderate)	2.5–120mg	A preliminary controlled study to determine whether whole-plant cannabis extracts can improve intractable neurogenic symptoms	4
Myocardial contractility related disorders	Eucalyptol	Contractile Activity (cardiac muscle)(moderate)	0.01/0.05/0.1/0.5 mM,	Eucalyptol, an essential oil, reduces contractile activity in rat cardiac muscle	1
Nausea	CBD (Cannabidiol)	Antiemetic(moderate)	20mg/kg	Cannabidiol, a non-psychoactive component of cannabis, attenuates vomiting and nausea-like behaviour via indirect agonism of 5-HT1A somatodendritic autoreceptors in the dorsal raphe nucleus	2
Nausea	CBD (Cannabidiol)	Antiemetic(moderate)	5mg/kg	Interaction between non-psychoactive cannabinoids in marijuana: effect of cannabigerol (CBG) on the anti-nausea or anti-emetic effects of cannabidiol (CBD) in rats and shrews	2
Nausea	CBDA (Cannabidiolic Acid)	Antiemetic(moderate)	0.5 mg/kg	Cannabidiol, a non-psychoactive component of cannabis, attenuates vomiting and nausea-like behaviour via indirect agonism of 5-HT1A somatodendritic autoreceptors in the dorsal raphe nucleus	2
Nausea	CBDA (Cannabidiolic Acid)	Antiemetic(moderate)	0.1-5 microgram/kg	Effect of low doses of cannabidiolic acid and ondansetron on LiCl-induced conditioned gaping (a model of nausea-induced behaviour) in rats	2
Nausea	CBDA (Cannabidiolic Acid)	Antiemetic(moderate)	0.5-1 microgram/kg	Effect of combined oral doses of Δ9-tetrahydrocannabinol (THC) and cannabidiolic acid (CBDA) on acute and anticipatory nausea in rat models	2
Nausea	THC (Tetrahydrocannabinol)	Antiemetic(moderate)	8.4mg-16.9mg	Antiemetic efficacy of smoked marijuana: subjective and behavioral effects on nausea induced by syrup of ipecac	4
Nausea	THC (Tetrahydrocannabinol)	Antiemetic(moderate)	NA	Amelioration of cancer chemotherapy-induced nausea and vomiting by delta-9-tetrahydrocannabinol	4
Nausea	THCV (Tetrahydrocannabivarin)	Antinausea(minor)	10mg/kg	Evaluation of the potential of the phytocannabinoids,	2
Nausea	THCV (Tetrahydrocannabivarin)	Antinausea(minor)	10mg/kg		2
Neurodegeneration	THCA (Tetrahydrocannabinolic Acid)	Neuroprotective(moderate)	10µM	Effects of cannabinoids Δ(9)-tetrahydrocannabinol, Δ(9)-tetrahydrocannabinolic acid and cannabidiol in MPP+ affected murine mesencephalic cultures	2

Neuroinflammation	CBG (Cannabigerol)	Antiinflammatory(moderate)	NA	A Cannabigerol Quinone Alleviates Neuroinflammation in a Chronic Model of Multiple Sclerosis	2
Neurological disorders	THC (Tetrahydrocannabinol)	Neuroprotectant(moderate)	NA	Cannabidiol and (-)-Δ^9-tetrahydrocannabinol are neuroprotective antioxidants	2
Neuropathic Pain	Linalool	Antiinflammatory(moderate)	NA	(-)-Linalool Attenuates Allodynia in Neuropathic Pain Induced by Spinal Nerve Ligation in C57/Bl6 Mice	2
Neuropathic Pain	THC (Tetrahydrocannabinol)	Analgesic(major)	25mg	Smoked cannabis for chronic neuropathic pain: a randomized controlled trial	4
Nociception	Isopulegol	Antinociceptive(moderate)	NA	Antinociceptive and anti-inflammatory potential of Isopulegol and possible mechanisms of action in rodents	2
Nociception	Linalool	Antinociceptive(moderate)	NA	Intraplantar injection of bergamot essential oil induces peripheral antinociception mediated by opioid mechanism	2
Obesity	α -Cedrene	Antiobesity(moderate)	10-20/50-100 mg/kg,	In vivo absorption and disposition of α-cedrene, a sesquiterpene constituent of cedarwood oil, in female and male rats	2
Obesity	THCV (Tetrahydrocannabivarin)	Antiobesity(moderate)	NA	Efficacy and Safety of Cannabidiol and Tetrahydrocannabivarin on Glycemic and Lipid Parameters in Patients	4
Obesity	THCV (Tetrahydrocannabivarin)	Antiobesity(moderate)	NA	The cannabinoid Δ^9-tetrahydrocannabivarin (THCV) ameliorates insulin sensitivity in two mouse models of obesity	4
Obesity	THCV (Tetrahydrocannabivarin)	Antiobesity(moderate)	3mg/kg	Synthetic and plant-derived cannabinoid receptor antagonists show hypophagic properties in fasted and non-fasted mice	4
Obesity	THCV (Tetrahydrocannabivarin)	Stimulates neural effects(moderate)	10mg	Neural Effects of Cannabinoid CB1 Neutral Antagonist Tetrahydrocannabivarin on Food Reward and Aversion in Healthy Volunteers	4
Oral mucositis	Borneol	Antiinflammatory(moderate)	1.2% of mixture, 2.4% of mixture	Anti-inflammatory and healing action of oral gel containing borneol monoterpene in chemotherapy-induced mucositis in rats (<i>Rattus norvegicus</i>)	2
Oral submucous fibrosis	Borneol	Antifibrosis(moderate)	18.75 to 300 μ g/ml	Influence of borneol on primary mice oral fibroblasts: a penetration enhancer may be used in oral submucous fibrosis	2
Osteoarthritis	β -Myrcene	Antiinflammatory(moderate)	NA	Evaluation of the anti-inflammatory, anti-catabolic and pro-anabolic effects of E-caryophyllene, myrcene and limonene in a cell model of osteoarthritis	2
Osteoporosis	CBD (Cannabidiol)	Bone Stimulant(moderate)	NA	Regulation of bone by cannabinoid and cannabinoid-like receptors	2
Oxidative-stress related disorders	α -trans-Bergamotene	Antioxidant(major)	29.9% of mixture	Chemical composition, antioxidant and antibacterial activities of essential oils from leaves and flowers of <i>Eugenia klotzschiana</i> Berg. (Myrtaceae)	1
Oxidative-stress related disorders	CBG (Cannabigerol)	Antioxidant(moderate)	NA	Cannabinoid CB2 receptors are involved in the protection of RAW264.7 macrophages against the oxidative stress: an in vitro study.	2

Oxidative-stress related disorders	Caryophyllene	Antioxidant(moderate)	10.54% of mixture	Chemical Composition, Antioxidant, Anti-Inflammatory and Anti-Proliferative Activities of Essential Oils of Plants from Burkina Faso	1
Oxidative-stress related disorders	Caryophyllene oxide	Antioxidant(moderate)	17.9% of mixture	Chemical Composition, Antioxidant, Anti-Inflammatory and Anti-Proliferative Activities of Essential Oils of Plants from Burkina Faso	1
Oxidative-stress related disorders	β -Cedrene	Antioxidant(major)	6.1% of mixture	Chemical Composition, Antioxidant, Antimicrobial and Cytotoxic Activities of Essential Oil from Premna microphylla Turczaninow	1
Oxidative-stress related disorders	Cymene	Antioxidant(moderate)	NA	Evaluation of p-cymene, a natural antioxidant	2
Oxidative-stress related disorders	P-Cymene	Antioxidant(moderate)	NA	Antimicrobial and Antioxidant Activity of the Essential Oil and Methanol Extracts of Thymus pectinatus Fisch. et Mey. Var. pectinatus (Lamiaceae)	1
Oxidative-stress related disorders	Farnesene	Antioxidant(major)	51.5% of mixture	Chemical Composition, Antioxidant Properties, α-Glucosidase Inhibitory, and Antimicrobial Activity of Essential Oils from Acacia mollissima and Acacia cyclops Cultivated in Tunisia	1
Oxidative-stress related disorders	Guaiol	Antioxidant(moderate)	8,2% of mixture	Chemical composition and evaluation of antibacterial and antioxidant activities of the essential oil of Croton urucurana Baillon (Euphorbiaceae) stem bark	1
Oxidative-stress related disorders	Myrcene	Antioxidant(major)	0.01 μ g/ml	Protective effect of linalool, myrcene and eucalyptol against t-butyl hydroperoxide induced genotoxicity in bacteria and cultured human cells	2
Oxidative-stress related disorders	Nerolidol	Antioxidant(major)	NA	Antioxidant evaluation of polyhydroxylated nerolidols from redroot pigweed (Amaranthus retroflexus) leaves	2
Oxidative-stress related disorders	Sabinene	Antioxidant(moderate)	29% of mixture	Antifungal, antioxidant and anti-inflammatory activities of <i>Oenanthe crocata</i> L. essential oil	1
Oxidative-stress related disorders	Terpineol	Antioxidant(moderate)	NA	Evaluation of the antioxidant and antiproliferative potential of bioflavors	2
Oxidative-stress related disorders	α -Terpineol	Antioxidant(major)	NA	Influence of the cultivation system in the aroma of the volatile compounds and total antioxidant activity of passion fruit	1
Oxidative-stress related disorders	Terpinolene	Antioxidant(moderate)	11mg/L,	Anticancer and Antioxidant Properties of Terpinolene in Rat Brain Cells	2
Oxidative-stress related disorders	THC (Tetrahydrocannabinol)	Neuroprotectant(moderate)	NA	Reactive oxygen species and p38 phosphorylation regulate the protective effect of Δ9-tetrahydrocannabinol in the apoptotic response to NMDA	2
Oxidative-stress related disorders		Antioxidant(minor)	NA	Understanding the Molecular Aspects of Tetrahydrocannabinol and Cannabidiol as Antioxidants	2
Pain	Borneol	Analgesic(major)	NA	A clinical and mechanistic study of topical borneol-induced analgesia	4

Pain	CBD (Cannabidiol)	Analgesic(moderate)	NA	An open-label extension study to investigate the long-term safety and tolerability of THC (Tetrahydrocannabinol)/CBD (Cannabidiol) oromucosal spray and oromucosal THC (Tetrahydrocannabinol) spray in patients with terminal cancer-related pain refractory to strong opioid analgesics	4
Pain	CBD (Cannabidiol)	Analgesic(moderate)	NA	Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study of the Efficacy, Safety, and Tolerability of THC:CBD Extract and THC Extract in Patients with Intractable Cancer-Related Pain	4
Pain	CBD (Cannabidiol)	Analgesic(moderate)	NA	A double-blind, randomized, placebo-controlled, parallel group study of THC/CBD spray in peripheral neuropathic pain treatment	4
Pain	CBD (Cannabidiol)	Analgesic(moderate)	2.5mg	Initial experiences with medicinal extracts of cannabis for chronic pain: Results from 34 'N of 1' studies	4
Pain	Camphor	Analgesic(moderate)	NA	Camphor activates and strongly desensitizes the transient receptor potential vanilloid subtype 1 channel in a vanilloid-independent mechanism	2
Pain	Caryophyllene oxide	Anesthetic(moderate)	12.5mg/kg	Analgesic and anti-inflammatory activity of Caryophyllene oxide from Annona squamosa L. bark	2
Pain	Eucalyptol	Analgesic(moderate)	NA	Antiinflammatory and antinociceptive effects of 1,8-cineole a terpenoid oxide present in many plant essential oils	2
Pain	Linalool	Analgesic(moderate)	NA	Odour-induced analgesia mediated by hypothalamic orexin neurons in mice	2
Pain	THC (Tetrahydrocannabinol)	Analgesic(moderate)	NA	An open-label extension study to investigate the long-term safety and tolerability of THC (Tetrahydrocannabinol)/CBD (Cannabidiol) oromucosal spray and oromucosal THC (Tetrahydrocannabinol) spray in patients with terminal cancer-related pain refractory to strong opioid analgesics	4
Pain	THC (Tetrahydrocannabinol)	Analgesic(moderate)	NA	Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study of the Efficacy, Safety, and Tolerability of THC:CBD Extract and THC Extract in Patients with Intractable Cancer-Related Pain	4
Pain	THC (Tetrahydrocannabinol)	Analgesic(moderate)	NA	A double-blind, randomized, placebo-controlled, parallel group study of THC/CBD spray in peripheral neuropathic pain treatment	4
Pain	THC (Tetrahydrocannabinol)	Analgesic(moderate)	NA	Synergistic affective analgesic interaction between delta-9-tetrahydrocannabinol and morphine	4
Pain	THC (Tetrahydrocannabinol)	Analgesic(moderate)	NA	Initial experiences with medicinal extracts of cannabis for chronic pain: Results from 34 'N of 1' studies	4

Pain	THC (Tetrahydrocannabinol)	Analgesic(moderate)	12.3ng/ml/mg	The pharmacokinetics, efficacy, safety, and ease of use of a novel portable metered-dose cannabis inhaler in patients with chronic neuropathic pain: a phase 1a study	4
Pain	THC (Tetrahydrocannabinol)	Analgesic(moderate)	2.9%-2.95% of mixture	A preliminary evaluation of the relationship of cannabinoid blood concentrations with the analgesic response to vaporized cannabis	4
Pain	THC (Tetrahydrocannabinol)	Analgesic(moderate)	NA	Open-Label, Add-on Study of Tetrahydrocannabinol for Chronic Nonmalignant Pain	4
Pain	THC (Tetrahydrocannabinol)	Analgesic(moderate)	2.5-15mg	Delta-9-THC based monotherapy in fibromyalgia patients on experimentally induced pain, axon reflex flare, and pain relief	4
Pain	THC (Tetrahydrocannabinol)	Antinociceptive(moderate)	1mg-5mg/kg	Dopamine D2 receptor antagonists prevent Δ9-tetrahydrocannabinol-induced antinociception in rats	2
Pain	THC (Tetrahydrocannabinol)	Antinociceptive(moderate)	4mg/kg	Low dose combination of morphine and Δ9-tetrahydrocannabinol circumvents antinociceptive tolerance and apparent desensitization of receptors	2
Parkinson's disease	CBD (Cannabidiol)	Neuroprotectant(moderate)	300mg	Effects of cannabidiol in the treatment of patients with Parkinson's disease: An exploratory double-blind trial	4
Parkinson's disease	CBD (Cannabidiol)	Sleep Improvement(moderate)	NA	Cannabidiol can improve complex sleep-related behaviours associated with rapid eye movement sleep behaviour disorder in Parkinson's disease patients: a case series	4
Parkinson's disease	CBD (Cannabidiol)	Antidystonic (moderate)	100-600mg	Open label evaluation of cannabidiol in dystonic movement disorders	3
Parkinson's disease	Caryophyllene	Antioxidant(moderate)	50mg/kg	β-Caryophyllene, a phytocannabinoid attenuates oxidative stress, neuroinflammation, glial activation, and salvages dopaminergic neurons in a rat model of Parkinson disease	2
Parkinson's disease	Caryophyllene	Antiinflammatory(minor)	50mg/kg	β-Caryophyllene, a phytocannabinoid attenuates oxidative stress, neuroinflammation, glial activation, and salvages dopaminergic neurons in a rat model of Parkinson disease	2
Parkinson's disease	THC (Tetrahydrocannabinol)	Antitremor(moderate)	NA	Survey on cannabis use in Parkinson's disease: subjective improvement of motor symptoms	3
Parkinson's disease	THC (Tetrahydrocannabinol)	Antitremor(moderate)	NA	Cannabis (medical marijuana) treatment for motor and non-motor symptoms of Parkinson disease: an open-label observational study	3
Pathological memory T cells and in Autoimmune diseases	CBD (Cannabidiol)	Antiinflammatory(major)	NA	Pathways and gene networks mediating the regulatory effects	2
					2
Pediculus humanus humanus	Geraniol	Insect repellent(moderate)	NA	Repellency of essential oils and their components to the human body louse, Pediculus humanus humanus	1
Periodontal disease	β-Caryophyllene	Antibacterial(major)	NA	Use of β-caryophyllene to combat bacterial dental plaque formation in dogs	2

Periodontopathic and cariogenic bacteria	Terpineol	Antimicrobial(minor)	NA	Antimicrobial effect of linalool and α-terpineol against periodontopathic and cariogenic bacteria	2
Peripheral pain response	CBD (Cannabidiol)	Analgesic(moderate)	NA	(\pm)-Cannabidiol analogues which bind cannabinoid receptors but exert peripheral activity only	2
Phytopathogenic bacteria	Camphene	Antibacterial(major)	5000 MIC, mg/L	Evaluation of antibacterial properties and biochemical effects of monoterpenes on plant pathogenic bacteria	2
Phytopathogenic fungi	Camphene	Antifungal(major)	NA	Chemical composition and antifungal activity of Artemisia nilagirica essential oil growing in north	1
Phytopathogenic fungi	β -Caryophyllene	Antifungal(moderate)	16.98% of mixture	Chemical composition and antifungal properties of the essential oil and various extracts of Mikania scandens (L.) Willd	1
Phytopathogenic fungi	Cymene	Antifungal(moderate)	2% of mixture	Antifungal, phytotoxic and insecticidal properties of essential oil isolated from Turkish Origanum acutidens and its three components, carvacrol, thymol and p-cymene	1
Phytopathogenic fungi	P-Cymene	Antifungal(major)	NA	Antifungal Effects of Volatile Compounds from Black Zira (Bunium persicum) and Other Spices and Herbs	1
Pleurisy	α -trans-Bergamotene	Antiinflammatory(moderate)	7% of mixture	Pharmacological evaluation of Copaifera multijuga oil in rats	1
Posttraumatic stress disorder (PTSD)	CBD (Cannabidiol)	Anxiolytic(moderate)	32mg	Cannabidiol enhances consolidation of explicit fear extinction in humans	4
Posttraumatic stress disorder (PTSD)	CBD (Cannabidiol)	Anxiolytic(moderate)	NA	Cannabidiol blocks long-lasting behavioral consequences of predator threat stress: Possible involvement of 5HT_{1A} receptors	4
Posttraumatic stress disorder (PTSD)	THC (Tetrahydrocannabinol)	Antidepressant(moderate)	5mg	Preliminary, open-label, pilot study of add-on oral Δ₉-tetrahydrocannabinol in chronic post-traumatic stress disorder	3
Posttraumatic stress disorder (PTSD)	THC (Tetrahydrocannabinol)	Anxiolytic(moderate)	NA	Cannabinoid facilitation of fear extinction memory recall in humans	4
Pro-inflammatory cytokines TNF- α and IL-6	Phellandrene	Antiinflammatory(moderate)	50/100/200 mg/kg,	α-Phellandrene, a cyclic monoterpene, attenuates inflammatory response through neutrophil migration inhibition and mast cell degranulation	2
Prostate cancer	Geraniol	Anticancer(major)	NA	Geraniol induces cooperative interaction of apoptosis and autophagy to elicit cell death in PC-3 prostate cancer cells	2
Prostate cancer	Linalool	Anticancer (moderate)	NA	Anticancer Activity of Linalool Terpenoid: Apoptosis Induction and Cell Cycle Arrest in Prostate Cancer Cells	2
Psychotic Experiences	CBD (Cannabidiol)	Antipsychotic(minor)	NA	Cannabis with high cannabidiol content is associated with fewer psychotic experiences	3
Red imported fire ant (Solenopsis invicta Buren)	Camphor	Insecticide(major)	36.61% of mixture	Fumigant Toxicity and Repellence Activity of Camphor Essential Oil from Cinnamomum camphora Siebold Against Solenopsis invicta Workers (Hymenoptera:Formicidae)	1
Reflexes	Linalool	Anesthetic(moderate)	0.01 – 10 μ g/ml	Local Anaesthetic Activity of the Essential Oil of Lavandula angustifolia	1

Retinal Inflammatory	CBD (Cannabidiol)	Antiinflammatory(moderate)	NA	Mediation of Cannabidiol Anti-inflammation in the Retina by Equilibrative Nucleoside Transporter and A2A Adenosine Receptor	2
Rheumatoid arthritis	β -Caryophyllene	Antiinflammatory(major)	100300 mg/kg,	Anti-Arthritic and Anti-Inflammatory Activity of Beta-Caryophyllene against Freund's Complete Adjuvant Induced Arthritis in Wistar Rats	2
Rheumatic Diseases	CBD (Cannabidiol)	Antiinflammatory(moderate)	NA	Cannabidiol—transdermal delivery and anti-inflammatory effect in a murine model	2
Schizophrenia	CBD (Cannabidiol)	Antipsychotic(moderate)	0.3/3/10/30 μ M,	Cannabidiol enhances anandamide signaling and alleviates psychotic symptoms of schizophrenia	4
Schizophrenia	THC (Tetrahydrocannabinol)	Antipsychotic(moderate)	2.5/5 mg,	Delta-9-tetrahydrocannabinol effects in schizophrenia: implications for cognition, psychosis, and addiction	4
Seizures	Caryophyllene	Anticonvulsant(minor)	100mg/kg	Anticonvulsant activity of β-caryophyllene against pentylenetetrazol-induced seizures	2
Seizures		Neuroprotective(major)	NA	Neuroprotective Effects of Trans-Caryophyllene Against Kainic Acid Induced Seizure Activity and Oxidative Stress in Mice	2
Seizures	Isopulegol	Anticonvulsant(major)	NA	Effects of isopulegol on pentylenetetrazol-induced convulsions in mice: possible involvement of GABAergic system and antioxidant activity	2
Sepsis	CBD (Cannabidiol)	Antiinflammatory(minor)	NA	Effect of cannabidiol on sepsis-induced motility disturbances in mice: involvement of CB1 receptors and fatty acid amide hydrolase	2
Sitophilus granarius and Tribolium confusum adults	Cymene	Insecticidal(moderate)	2% of mixture	Antifungal, phytotoxic and insecticidal properties of essential oil isolated from Turkish Origanum acutidens and its three components, carvacrol, thymol and p-cymene	1
Skin tumorigenesis	D-Limonene	Chemopreventive(major)	50/100 mg/kg,	d-Limonene modulates inflammation, oxidative stress and Ras-ERK pathway to inhibit murine skin tumorigenesis	2
Sleep Apnea	THC (Tetrahydrocannabinol)	Improves sleep(moderate)	20mg	Around-the-clock oral THC (Tetrahydrocannabinol) effects on sleep in male chronic daily cannabis smokers	3
Sleep deprivation	Limonene	Relaxant(moderate)	100/200 mg/kg,	Central effects of citral, myrcene and limonene, constituents of essential oil chemotypes from Lippia alba (Mill.) n.e. Brown	2
Sleep deprivation	Myrcene	Relaxant(moderate)	100/200 mg/kg,	Central effects of citral, myrcene and limonene, constituents of essential oil chemotypes from Lippia alba (Mill.) n.e. Brown	2
Spasticity	CBD (Cannabidiol)	Antispasticity(minor)	NA	Randomized controlled trial of cannabis-based medicine in spasticity caused by multiple sclerosis	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	5-10mg	Treatment of human spasticity with delta 9-tetrahydrocannabinol	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	31mg	The treatment of spasticity with Δ9-tetrahydrocannabinol in persons with spinal cord injury	4

Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	33% of mixture	The effect of cannabis on urge incontinence in patients with multiple sclerosis: a multicentre, randomised placebo-controlled trial (CAMS-LUTS)	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Cannabinoids in multiple sclerosis (CAMS) study: safety and efficacy data for 12 months follow up	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Randomized controlled trial of cannabis-based medicine in spasticity caused by multiple sclerosis	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Smoked cannabis for spasticity in multiple sclerosis: a randomized, placebo-controlled trial	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Cannabinoids for treatment of spasticity and other symptoms related to multiple sclerosis (CAMS study): multicentre, randomised placebo-controlled trial	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	Safety, tolerability, and efficacy of orally administered cannabinoids in MS	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	>7.5mg	Delta-9-THC in the Treatment of Spasticity Associated with Multiple Sclerosis	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	2.5-15mg	The effect of cannabinoids on the stretch reflex in multiple sclerosis spasticity	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	A double-blind, randomized, placebo-controlled, parallel-group study of Sativex, in subjects with symptoms of spasticity due to multiple sclerosis	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	NA	The perceived effects of smoked cannabis on patients with multiple sclerosis	4
Spasticity	THC (Tetrahydrocannabinol)	Antispasticity(moderate)	4sprays	Clinical experience with THC:CBD oromucosal spray in patients with multiple sclerosis-related spasticity	4
Spinal injury	CBD (Cannabidiol)	Neuroprotectant(moderate)	20mg/kg	Cannabidiol-treated Rats Exhibited Higher Motor Score After Cryogenic Spinal Cord Injury	2
Stress	Guaiol	Anesthetic(minor)	NA	Anesthetic activity and bio-guided fractionation of the essential oil of <i>Aloysia gratissima</i> (Gillies & Hook.) Tronc. in silver catfish <i>Rhamdia quelen</i>	1
Superficial scald	Farnesene	Antioxidant(minor)	NA	Superficial scald, a functional disorder of stored apples. V.—Oxidation of α-farnesene and its inhibition by diphenylamine	2
Tension of the blood vessel walls	Borneol	Vasorelaxant(moderate)	NA	Investigation of Mechanisms Involved in (-)-Borneol-Induced Vasorelaxant Response on Rat Thoracic Aorta	2
Thrombosis	Borneol	Anthrombotic(moderate)	NA	The Antithrombotic Effect of Borneol Related to Its Anticoagulant Property	2
TNBS-induced intestinal inflammation	D-Limonene	Antiinflammatory(major)	10mg/kg	Oral administration of d-Limonene controls inflammation in rat colitis and displays anti-inflammatory properties as diet supplementation in humans	2
Tonic-clonic seizure	CBN (Cannabinol)	Anticonvulsant(moderate)	NA	Anticonvulsant properties of Δ^9-tetrahydrocannabinol and other cannabinoids	2

Tourette	THC (Tetrahydrocannabinol)	Antihyperactivity(moderate)	10mg	Delta 9-tetrahydrocannabinol (THC (Tetrahydrocannabinol)) is effective in the treatment of tics in Tourette syndrome: a 6-week randomized trial	4
Tourette	THC (Tetrahydrocannabinol)	Antihyperactivity(moderate)	NA	Oral Δ9-Tetrahydrocannabinol Improved Refractory Gilles de la Tourette Syndrome in an Adolescent by Increasing Intracortical Inhibition: A Case Report	4
Tourette	THC (Tetrahydrocannabinol)	Antihyperactivity(moderate)	10mg	Treatment of Tourette's Syndrome With Delta-9-Tetrahydrocannabinol	4
Traumatic Brain Injury	THC (Tetrahydrocannabinol)	Neuroprotective(moderate)	NA	Effect of marijuana use on outcomes in traumatic brain injury	3
Transient lower oesophageal sphincter relaxations	THC (Tetrahydrocannabinol)	Antigastroesophageal reflux(moderate)	20mg	Effect of Delta(9)-tetrahydrocannabinol, a cannabinoid receptor agonist, on the triggering of transient lower oesophageal sphincter relaxations in dogs and humans	4
Tribolium castaneum	Pulegone	Insecticidal(moderate)	0.8-26.6% of mixture	Chemical characterization and insecticidal properties of essential oils from different wild populations of Mentha suaveolens subsp. timija (Briq.) Harley from Morocco	1
Tumor	CBN (Cannabinol)	Antitumor(moderate)	50/100/200mg/kg,	Antineoplastic Activity of Cannabinoids	2
					2
					2
Tumor	β-Caryophyllene	Antitumor(major)	NA	β-Caryophyllene potently inhibits solid tumor growth and lymph node metastasis of B16F10 melanoma cells in high-fat diet-induced obese C57BL/6N mice	2
Uveitis	CBD (Cannabidiol)	Antiinflammatory(major)	5mg/kg	Neuroprotective effects of cannabidiol in endotoxin-induced uveitis: critical role of p38 MAPK activation	2
Vomiting	THC (Tetrahydrocannabinol)	Antiemetic(moderate)	NA	Tetrahydrocannabinol vs. prochlorperazine. The effects of two antiemetics on patients undergoing radiotherapy	3
Writhe	p-Cymene	Antinociceptive(major)	25/50/100mg/kg,	Evaluation of the Anti-Inflammatory and Antinociceptive Properties of p-Cymene in Mice	2
Writhe	Limonene	Antinociceptive(moderate)	25/50/75mg/kg,	Physio-pharmacological Investigations About the Anti-inflammatory and Antinociceptive Efficacy of (+)-Limonene Epoxide	2
Writhe	Linalool	Antinociception(moderate)	25/75/100mg/kg,	(-)-Linalool produces antinociception in two experimental models of pain	2
Writhe	Terpineol	Analgesic(moderate)	NA	A Study on Anti-Inflammatory and Peripheral Analgesic Action of Salvia sclarea Oil and Its Main Components	2