



Homeopathy Drugs Superintendence Of Clinical Depression

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Abstract

Depression is a leading cause for individuals to seek treatment from homeopaths. The objective of this review is to evaluate the effectiveness, safety, and effectiveness. Depression is a mood disorder characterized by persistent sadness and a loss of interest in daily activities. While it is normal for individuals to feel down, upset, or sad at certain points in their lives, these feelings are not the same as clinical or major depression. Clinical depression involves constant sadness and hopelessness that lasts for weeks and interferes with daily functioning, leading to negative impacts on personal and professional life. This level of depression requires treatment.

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Keywords: Homeopaths, Clinical depression, Sadness, Personal, Professional life.

Clinical depression

Acute-phase treatment options include pharmacotherapy, depression-focused psychotherapy, combinations of medications and psychotherapy, and somatic therapies such as electroconvulsive therapy (ECT). Nevertheless, managing the acute phase of depression is only the first step in a long therapy process that aims to maintain remission and prevent relapses. In this article, we discuss various treatment options implemented by clinicians, highlighting the role that each option plays in actual psychiatric practice [1]. Depression is the second-leading cause of disability worldwide and is expected to rank first by 2030. Depression is also linked to high rates of suicidal behavior and mortality. The primary objective of treatments administered during the acute phase of a major depressive episode is to help the patient achieve remission and return to their baseline level of functioning. Acute-phase treatment options include pharmacotherapy, depression-focused psychotherapy, combinations of medications and psychotherapy, and somatic therapies such as electroconvulsive therapy (ECT). However, managing the acute phase of depression is only the initial step in a long therapeutic process

that aims to maintain remission and prevent relapses. In this article, we explore various treatment options implemented by clinicians and emphasize the role that each option plays in real-world psychiatric practice [2].

Homeopathic Medicines for Depression

1. Ignatia Amara

Ignatia Amara is a leading medicine to treat cases of depression. It works wonder in the case of acute depression that has just taken off. Those who need it always remain sad. Consequently, they have weeping spells. They also isolated themselves and avoided engaging in social activities. They brood all the time, that is, lost in deep thought, which makes them sad and worried. In addition to the aforementioned symptoms, they may be irritable. Their minds are dull, with a weak memory. Excessive weakness also appeared. Depression triggered by acute grief, such as the death of a loved one, broken relationships, and disappointments in life, can be treated. It is also an excellent medicine for the treatment of bipolar disorders [3].

2. Natrum Mur

When treating chronic depression, natrum Mur is the chosen treatment. It is appropriate for highly sensitive people, tragically accompanied by occasional crying fits. They constantly focus on the painful recollections of the past and are consumed with grief. They dislike being comforted, and that makes their complaints worse. They are prone to taking offence readily. In addition, they are uninterested in working of any kind. Preventing menstruation depression in women is also advantageous [4].

3. Aurum Met

Aurum Met is useful for those who experience extreme sadness and hopelessness. In addition, they feel that they are worthless and of no value. They assumed negative thoughts, and the future seemed dark for them. They feel that life is a burden; it is useless to live, and they long for death with constant suicidal thoughts [5].

4. Kali Phos

The next medication on the top list for depression is kali phosphorus. It primarily benefits those who are anxious and overly stressed. They never seem to get any better. They are thinking negatively as a result of this. Individuals in need experience physical and mental exhaustion. They could also exhibit crying fits and anxiety attacks as symptoms. In addition to the symptoms listed above, one of the main concerns is the complaint of insomnia [6].

5. Natrum Sulp

Help is available from Natrum Sulph when suicidal thoughts become overpowering. We saw sadness, tears, and extreme hostility [7]. Mornings were the worst for sadness bursts. In addition, there is a dislike of conversing, apathy towards one's own family, a sense that life is pointless, and a propensity to consider suicide. There are moments when mental confusion makes it hard to think clearly [8].

6. Sepia

For ladies with menopausal depression, sepia is a great medication. The main symptoms that they exhibit include depressiveness, antagonism towards family members, and a lack of interest in performing any type of job, whether it be physical or mental, including missing out on everyday activities [9]. Additionally, there is apathy towards family and life. These individuals are troubled by self-pity and are always lost in their troubles. They are quickly angered and highly impatient. Sporadic

sobbing fits in search of comfort and understanding. Another significant complaint among those with the aforementioned symptoms is loss of sexual drive. In addition to depression during menopause, treating instances that arise following motherhood is Beneficial [10].

7. Cimicifuga Racemosa

The use of cimicifuga is highly considered in cases of depression among women that begin after childbirth. Women who need this medication experience extreme sadness [11]. They feel that they are enveloped in darkness, which makes it difficult to come out. Other symptoms that accompany the abovementioned symptoms are excessive talking, indifferent behavior, fear of death, and fear of going mentally insane [12].

8. Lachesis

When there is hallucination in addition to depression, as in psychotic depression, lachesis is a good indication [13]. It is given to patients who exhibit delusions, excessive talking, melancholy, or feelings of abandonment. These individuals engage in excessive chatting and constantly switch topics. At any one moment, their head is overflowing with thoughts. There are moments when insane behavior and extreme rage are observed. When someone has delusions, they might become suspicious and think that someone is trying to poison them or hurt them [14]. They also exhibit restlessness, a dislike of effort, and a desire to flee from reality [15].

9. Coffea Cruda

In these situations, coffee cruda is a very useful tool for treating insomnia. It is a sign when one's mind is constantly racing with ideas that keep one from falling asleep [16]. At night there is a noticeable restlessness, twisting and tossing. Weeping, weakness, anxiety, impatience, and mood swings are some more symptoms [17].

10. Arsenic album

An arsenic Album is administered in cases where anxiety accompanies sadness [18]. There is anxiety regarding health and the future. This is accompanied by intense restlessness. Marked weakness was another prominent symptom [19]. Some fears include fear of disease, financial loss, being alone, and death [20].

11. Gelsemium

Gelsemium plays an important role in treating conditions when sleepiness and mental dullness are predominant [21]. As a result, there is a dislike of conversation and a need for solitude. Additionally, excessive irritation is seen. They may be accompanied by headaches, pains in the muscles, and weakness [22].

Different homeopathic drugs uses and effects

Drugs	Causes	Sides effects	Reference
Ignatia – For Acute Cases	Genetics – Those with a family history of depression are at risk of developing it[23]. The exact genes involved here are not known but research is going on to ascertain the genes that are involved [24].	It might happen that the symptoms lessen for a while before returning stronger and more severe [25]. When a medication is taken more often than is necessary, this happens. It can sometimes happen that the patient returns and claims to have a whole different set of symptoms even if all of his previous ones are still there [26].	23,24,25,26.
Natrum Mur – For Chronic Cases	Alterations in the neurotransmitters (brain chemicals) - The brain's many regions communicate with one another through the transfer of these substances from one nerve cell to the next [27]. Dopamine, norepinephrine, and serotonin are among the substances. They have an impact on how someone feels, feels, feels, feel happy, feels pleasure. Depression is believed to be caused by an imbalance between these substances [28].	When observing aggravating factors such as a rise in urticaria or eczema, caution should be used; in these situations, retake the case and provide an antidote Camphora[29].	27,28,29.
	Hormonal alterations: Depression may arise as a result of certain hormonal changes. These changes may		

	occur as a result of the thyroid, at menopause, following delivery, or during pregnancy		
Kali Phos	Some changes in the structure of the brain and the frontal lobe that are less active are other reasons that can trigger depression [30].	K-Phos Neutral side effects might be rather harmful. Make a quick call to your doctor if you have: severe or persistent diarrhea convulsions, or seizures; breathlessness; or symptoms of kidney problems include edema in the feet or ankles, fatigue, or shortness of breath; little or no urine; painful or difficult urination[31].K-Phos Neutral side effects frequently include: vomiting, nausea, dyspepsia, and diarrhea; discomfort in the bones or joints; headache, lightheadedness, and fatigue; weakness or discomfort in the muscles; heightened desire for alcohol feeling tingling or numb[32].	30,31,32.
Natrum Sulph	The respiratory tract is where natrum sulphuricum mostly acts. It is very helpful in treating asthma and cough episodes. When asthma flares up in rainy weather, it's one of the main treatments [33].	Severe burning, redness, stinging, itching, and swelling are the symptoms. Products containing sulfur lead to greasy, dry, and peeling skin. There are issues with headaches, nausea, and dizziness [34].	33,34
Sepia	The main application for sepia is as a mother tincture, which is made by macerating the cuttlefish's dried ink in a solution of alcohol and water. The medicinal qualities of the whole material are captured in this pure extract [35].	Indications of an Itraconazole (Sepia) allergy: severe skin rash, tingling in the arms or legs, breathing difficulties, facial, lip, tongue, or throat swelling, and hives [36].	35,36.

<p>Cimicifuga Racemosa</p>	<p>Cimicifuga is a medicine specifically for women that is used to treat various gynaecological conditions [37]. For emotional distress and depression-related irregular, exhausted, delayed, or repressed menses, this medication is strongly recommended [38].</p>	<p>Some minor adverse effects that may arise from it include upset stomach, headache, rash, and heaviness in the body [39]. Additionally, there is some worry that black cohosh may harm certain people's lives. When using black cohosh, individuals should be aware of signs of liver impairment, such as weariness and dark urine [40].</p>	<p>37,38,39,40.</p>
<p>Lachesis</p>	<p>It fits frail, skinny individuals with a melancholy (sad) personality [41]. It is appropriate for ladies who are going through the menopause. Aside from that, alcoholics would find it appropriate [42].</p>	<p>Homeopathic medicines are made by potentiation, where the dynamic healing power of the medicine is awakened, so homeopathic medicines cause negligible side effects [43]. If side effects of Lachesis are observed, Cedron can prevent them [44].</p>	<p>41,42,43,44.</p>
<p>Coffea Cruda</p>	<p>When consumed, coffee might make you jittery and excitable, but it can also help with symptoms of anxiety and overstimulation [45].</p>	<p>Homeopathic medicines are made by potentiating, where the dynamic healing power of the medicine is awakened, so homeopathic medicines cause negligible side effects [46]. If the side effects of Coffea Cruda are observed as an increase or worsening of symptoms, or if the patient is allergic to any of the coffee ingredients, Tabaccum or Nux-vomica can be the antidote [47].</p>	<p>45,46,47.</p>
<p>Lilium Tigrinum</p>	<p>In homoeopathy, lignum tigrinum is regarded as a feminine treatment. It affects the uterus and ovaries [48]. As a result, it is utilised to reduce symptoms related to menopause, white discharge, imminent uterine prolapsed, and bladder</p>	<p>Palpitation is the irregular, fast-paced heartbeat. Feeling of coldness around the heart. Suffocation in a warm, crowded place. Right arm ache accompanied by chest pain from angina pectoris [50].</p>	<p>48,49,50.</p>

	insufficiency [49].		
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Reference

1. Cozanitis DA. Daniel Bovet, Nobelist: muscle relaxants in anaesthesia : The role played by two neglected protagonists. *Wien Med Wochenschr* 2016; 166: 487-499 [PMID: 27468972 DOI: 10.1007/s10354-016-0481-y]
2. Karrouri R, Hammani Z, Benjelloun R, Otheman Y. Major depressive disorder: Validated treatments and future challenges. *World J Clin Cases*. 2021 Nov 6;9(31):9350-9367. doi: 10.12998/wjcc.v9.i31.9350. PMID: 34877271; PMCID: PMC8610877.
3. SSAGC, Aldoss I, DiPersio J, Cuglievan B, Stone R, Arellano M, Thirman MJ, Patel MR, Dickens DS, Shenoy S, Shukla N, Kantarjian H, Armstrong SA, Perner F, Perry JA, Rosen G, Bagley RG, Meyers ML, Ordentlich P, Gu Y, Kumar V, Smith S, McGeehan GM, Stein EM. The menin inhibitor revumenib in KMT2A-rearranged or NPM1-mutant leukaemia. *Nature*. 2023 Mar;615(7954):920-924.
4. Becker-Witt C, Lüdtke R, Weissshuhn TE, Willich SN. Diagnoses and treatment in homeopathic medical practice. *Forsch Komplementarmed Klass Naturheilkd*. 2022 Apr;11(2):98-103.
5. Flux MC, Smith DG, Allen JJB, Mehl MR, Medrano A, Begay TK, Middlemist BH, Marquart BM, Cole SP, Sauder CJ, Lowry CA, Raison CL. Association of plasma cytokines and antidepressant response following mild-intensity whole-body hyperthermia in major depressive disorder. *Transl Psychiatry*. 2023 Apr 21;13(1):132.
6. Dean ME, Karsandas R, Bland JM, Gooch D, MacPherson H. Homeopathy for mental fatigue: lessons from a randomized, triple blind, placebo-controlled cross-over clinical trial. *BMC Complement Altern Med*. 2012 Oct 1;12:167.
7. Ramanan VE, Sathyanandhan S. A Case Report of Idiopathic OAT Syndrome, Associated with Necrospemia and Hypospermia, Reversed with Individualized Homeopathy. *Homeopathy*. 2022 Nov;111(4).
8. Macías-Cortés E. Understanding Why Homeopathic Medicines are Used for Menopause: Searching for Insights into Neuroendocrine Features. *Homeopathy*. 2024 May;113(2):54-66. doi: 10.1055/s-0043-1769734. Epub 2023 Jul 3.
9. Ghosh S, Palanisamy C, Das AD, Mandal S, Guha N, Maiti S, Ghosh P, Singh NK, Koley M, Saha S. Efficacy of Individualized Homeopathic Medicines in the Treatment of Menopausal Syndrome: Double-Blind, Randomized, Placebo-Controlled Trial. *J Integr Complement Med*. 2023 Oct;29(10):649-664.
10. Almaraz K, Jang T, Lewis M, Ngo T, Song M, Moshiri N. SEPIA: simulation-based evaluation of prioritization algorithms. *BMC Med Inform Decis Mak*. 2021 Jun 3;21(1):177.
11. Furtado Macruz C, Lima SMRR. Effects of *Cimicifuga racemosa* (L.) Nutt on sexual function in women receiving tamoxifen for breast cancer. *J Obstet Gynaecol*. 2022 Oct;42(7):3236-3240.
12. Rabenau M, Dillberger B, Günther M, Krippner S, Butterweck V, Boonen G, Drewe J, Eckert GP, Culmsee C. *Cimicifuga racemosa* Extract Ze 450 Re-Balances Energy Metabolism and Promotes Longevity. *Antioxidants (Basel)*. 2021 Sep 8;10(9):1432.
13. Muniz EG, Noronha MDDN, Saraiva MDGG, Monteiro WM, Oliveira SS. Neutralization of hemostatic disorders induced by Lachesis muta venom using Brazilian antivenoms. *Toxicon*. 2021 Feb;191:44-47.
14. Phan P, Deshwal A, McMahan TA, Slikas M, Andrews E, Becker B, Kumar TKS. A Review of Rattlesnake Venoms. *Toxins (Basel)*. 2023 Dec 19.

15. Zanotty Y, Álvarez M, Perdomo L, Sánchez EE, Giron ME, Jimenez JC, Suntravat M, Guerrero B, Ibarra C, Montero Y, Medina R, Navarrete LF, Rodríguez-Acosta A. Mutacytin-1, a New C-Type Lectin-Like Protein from the Venezuelan Cuaima (*Lachesis muta muta* Linnaeus, 1766) (Serpentes: Viperidae) Snake Venom Inducing Cardiotoxicity in Developing Zebrafish (*Danio rerio*) Embryos. *Zebrafish*. 2019 Aug;16(4):379-387.
16. Bell IR, Howerter A, Jackson N, Aickin M, Bootzin RR, Brooks AJ. Nonlinear dynamical systems effects of homeopathic remedies on multiscale entropy and correlation dimension of slow wave sleep EEG in young adults with histories of coffee-induced insomnia. *Homeopathy*. 2012 Jul;101(3):182-92.
17. Brooks AJ, Bell IR, Howerter A, Jackson N, Aickin M. Effects of homeopathic medicines on mood of adults with histories of coffee-related insomnia. *Forsch Komplementmed*. 2010 Oct;17(5):250-7
18. Drugs and Lactation Database (LactMed®) [Internet]. Bethesda (MD): National Institute of Child Health and Human Development; 2006-. Arsenic Trioxide. 2021 Aug 16.
19. Rath S, Jema JP, Kesavan K, Mallick S, Pradhan J, Chainy GBN, Nayak D, Kaushik S, Dandapat J. Arsenic album 30C exhibits crystalline nano structure of arsenic trioxide and modulates innate immune markers in murine macrophage cell lines. *Sci Rep*. 2024 Jan 7;14(1):745.
20. Varanasi R, Nayak D, Khurana A. Clinical Repurposing of Medicines is Intrinsic to Homeopathy: Research Initiatives on COVID-19 in India. *Homeopathy*. 2021 Aug;110(3):198-205.
21. Peng YL, Liang JJ, Xue Y, Khan A, Zhang PP, Feng TT, Song D, Zhou Y, Wei X. Genus *Gelsemium* and its Endophytic Fungi - Comprehensive Review of their Traditional Uses, Phytochemistry, Pharmacology, and Toxicology. *Curr Top Med Chem*. 2023;23(26):2452-2487.
22. Lin H, Qiu H, Cheng Y, Liu M, Chen M, Que Y, Que W. *Gelsemium elegans* Benth: Chemical Components, Pharmacological Effects, and Toxicity Mechanisms. *Molecules*. 2021 Nov 25;26(23):7145.
23. Anser H, Ikram R, Khatoon H, Naeem S, Khan SS, Nazim U, Imam S, Shafiq Y, Ishaque S. Comparison of the antidepressant like activity of homeopathic remedies (*Argentum nitricum*, *Staphysagria* and *Ignatia amara*) and their effect on the behavior of rodents. *Pak J Pharm Sci*. 2020 May;33(3):937-945.
24. Macías-Cortés E. Understanding Why Homeopathic Medicines are Used for Menopause: Searching for Insights into Neuroendocrine Features. *Homeopathy*. 2024 May;113(2):54-66.
25. Mazón-Suástegui JM, García-Bernal M, Saucedo PE, Campa-Córdova Á, Abasolo-Pacheco F. Homeopathy outperforms antibiotics treatment in juvenile scallop *Argopecten ventricosus*: effects on growth, survival, and immune response. *Homeopathy*. 2017 Feb;106(1):18-26.
26. Singh NK, Koley M, Saha S. Individualized Homeopathic Medicines as Adjunctive Treatment of Pediatric Epilepsy: A Double-Blind, Randomized, Placebo-Controlled Trial. *Homeopathy*. 2023 Aug;112(3):170-183.
27. Shinde MD, Patil SA, Mukherjee A, Nema V. Revisiting the therapeutic potential of homeopathic medicine *Rhus Tox* for herpes simplex virus and inflammatory conditions. *J Ayurveda Integr Med*. 2023 Jul-Aug;14(4):100739.
28. Patel N, Patel D, Farouk SS, Rein JL. Salt and Water: A Review of Hyponatremia. *Adv Kidney Dis Health*. 2023 Mar;30(2):102-109.
29. Kurtz TW, DiCarlo SE, Pravenec M, Morris RC Jr. Reply. *J Hypertens*. 2018 Mar;36(3):703-704.
30. Homeopathy for mental fatigue: lessons from a randomized, triple blind, placebo-controlled cross-over clinical trial. *BMC Complement Altern Med*. 2012 Oct 1;12:167.
31. Nayak C, Singh V, Singh VP, Oberai P, Roja V, Shitanshu SS, Sinha MN, Deewan D, Lakhera BC, Ramteke S, Kaushik S, Sarkar S, Mandal NR, Mohanan PG, Singh JR, Biswas S, Mathew G. Homeopathy in chronic sinusitis: a prospective multi-centric observational study. *Homeopathy*. 2012 Apr;101(2):84-91.

32. Ajima S, Kim YS, Fukuda M, Jo Y, Wang PY, Paggi JM, Inoue M, Byrne EFX, Kishi KE, Nakamura S, Ramakrishnan C, Takaramoto S, Nagata T, Konno M, Sugiura M, Katayama K, Matsui TE, Yamashita K, Kim S, Ikeda H, Kim J, Kandori H, Dror RO, Inoue K, Deisseroth K, Kato HE. Structural basis for ion selectivity in potassium-selective channelrhodopsins. *Cell*. 2023 Sep 28;186(20):4325-4344.e26.
33. Bhattacharjee N, Khuda-Bukhsh AR. Two homeopathic remedies used intermittently provide additional protective effects against hepatotoxicity induced by carcinogens in mice. *J Acupunct Meridian Stud*. 2012 Aug;5(4):166-75.
34. Bhattacharjee N, Pathak S, Khuda-Bukhsh AR. Amelioration of carcinogen-induced toxicity in mice by administration of a potentized homeopathic drug, natrum sulphuricum 200. *Evid Based Complement Alternat Med*. 2009 Mar;6(1):65-75.
35. Almaraz K, Jang T, Lewis M, Ngo T, Song M, Moshiri N. SEPIA: simulation-based evaluation of prioritization algorithms. *BMC Med Inform Decis Mak*. 2021 Jun 3;21(1):177.
36. Chan KS, Marques JP. SEPIA-Susceptibility mapping pipeline tool for phase images. *Neuroimage*. 2021 Feb 15;227.
37. Furtado Macruz C, Lima SMRR. Effects of *Cimicifuga racemosa* (L.) Nutt on sexual function in women receiving tamoxifen for breast cancer. *J Obstet Gynaecol*. 2022 Oct;42(7):3236-3240.
38. Leach MJ, Moore V. Black cohosh (*Cimicifuga* spp.) for menopausal symptoms. *Cochrane Database Syst Rev*. 2012 Sep 12;2012(9).
39. Rabenau M, Dillberger B, Günther M, Krippner S, Butterweck V, Boonen G, Drewe J, Eckert GP, Culmsee C. *Cimicifuga racemosa* Extract Ze 450 Re-Balances Energy Metabolism and Promotes Longevity. *Antioxidants (Basel)*. 2021 Sep 8;10(9):1432.
40. Drewe J, Boonen G, Culmsee C. Treat more than heat-New therapeutic implications of *Cimicifuga racemosa* through AMPK-dependent metabolic effects. *Phytomedicine*. 2022 Jun.
41. Resiere D, Hossein M, Megarbane B. Snake Bites by *Bothrops lanceolatus* in Martinique. *Med Sante Trop*. 2018 Feb 1;28(1):37-43.
42. Magalhães SFV, Peixoto HM, Freitas LRS, Monteiro WM, Oliveira MRF. Snakebites caused by the genera *Bothrops* and *Lachesis* in the Brazilian Amazon: a study of factors associated with severe cases and death. *Rev Soc Bras Med Trop*. 2022 Jul 25;55:e05582021.
43. *Bothrops* and *Lachesis* in the Brazilian Amazon: a study of factors associated with severe cases and death. *Rev Soc Bras Med Trop*. 2022 Jul 25;55:e05582021.
44. Miller A, Parsh B. Caring for patients with venomous Crotalinae snakebites. *Nursing*. 2020 Feb;50(2):56-60.
45. Bell IR, Howerter A, Jackson N, Aickin M, Bootzin RR, Brooks AJ. Nonlinear dynamical systems effects of homeopathic remedies on multiscale entropy and correlation dimension of slow wave sleep EEG in young adults with histories of coffee-induced insomnia. *Homeopathy*. 2012 Jul;101(3):182-92.
46. Bell IR, Howerter A, Jackson N, Aickin M, Baldwin CM, Bootzin RR. Effects of homeopathic medicines on polysomnographic sleep of young adults with histories of coffee-related insomnia. *Sleep Med*. 2011 May;12(5):505-11.
47. Brooks AJ, Bell IR, Howerter A, Jackson N, Aickin M. Effects of homeopathic medicines on mood of adults with histories of coffee-related insomnia. *Forsch Komplementmed*. 2010 Oct;17(5):250-7.
48. Compton JA. *Lilium leichtlinii* subsp. *maximowiczii* (Regel) J.Compton (Liliaceae): a new combination for Maximowicz's orange lily. *PhytoKeys*. 2021 Mar 12;174:81-93.
49. Zhou J, An R, Huang X. Genus *Lilium*: A review on traditional uses, phytochemistry and pharmacology. *J Ethnopharmacol*. 2021 Apr 24;270:113852.
50. Guo J, Lu L, Li J, Kang S, Li G, Li S, Yuan M. Extraction, structure, pharmacological activity, and structural modification of *Lilium* polysaccharides. *Fitoterapia*. 2024 Jan;172.