

Headache and Its Therapeutics

Abstract

Headache is a prevalent neurological symptom affecting individuals across all age groups and demographics. It arises from irritation or stimulation of pain-sensitive structures in the head, scalp, or neck, including blood vessels, meninges, muscles, cranial nerves, and sinuses. This article explores the epidemiology of headache disorders, distinguishing between common types such as migraine, tension-type, and cluster headaches. It categorizes causes into external (e.g., compression from accessories) and internal origins, including neurological, vascular, infectious, ocular, endocrine, psychological, and systemic factors. Special attention is given to red flag symptoms that may indicate serious underlying pathology. The article also presents a detailed overview of homeopathic remedies tailored to specific headache profiles, offering insights into alternative therapeutic approaches. By integrating conventional understanding with holistic treatment options, this piece aims to provide a comprehensive resource for clinicians, students, and individuals seeking informed strategies for headache management.

Introduction

Headache is one of the most prevalent neurological complaints encountered worldwide, defined as pain or discomfort

in the region of the head or upper neck. According to authoritative sources, including the International Classification of Headache Disorders (ICHD-3), headaches can be broadly categorized as primary — signifying they are standalone conditions such as migraine, tension-type headache (TTH), and cluster headache — or as secondary, indicating an underlying cause which may be vascular, infectious, ocular, endocrine, psychological, or systemic in nature.

In clinical terms, headache encompasses a large variety of phenotypes, ranging from mild, intermittent, and self-limiting to severe, chronic, and debilitating. The sensations can be throbbing, stabbing, pressing, burning, or heavy. The onset can be gradual or sudden, pain may be unilateral or bilateral, and the duration may vary from a few moments to several days. Migraine, for instance, is defined as a recurrent, often unilateral, throbbing pain typically associated with nausea, vomiting, and sensory sensitivities, sometimes preceded by aura signalling neurological flare. On the other hand, TTH is characterized by a band-like, pressing pain, usually bilateral, and lacks the migrainous features of nausea or pronounced sensory symptoms.

Epidemiology of Headache

From a global health perspective, headaches represent a substantial disease burden, impacting quality of life, productivity, and societal resources. Epidemiological data indicate that the

global prevalence of active headache disorders is approximately 52.0% of the general population, with estimates suggesting that nearly half of all adults experience a headache at least annually. The lifetime prevalence is even higher, with studies showing rates up to 66.6% for all headaches.

Multiple sources and systematic reviews highlight that headaches are more common in women, particularly during childbearing years. Studies consistently show the highest burden in females aged 30–49. Migraine, for example, affects about 15–20% of the global population but is found in up to 22% of women compared to 9% in men.

External Causes of Headache

Headaches can be triggered or exacerbated by various external (environmental and lifestyle) factors, even in individuals with primary headache disorders. Identifying and addressing these triggers is crucial for both preventive and therapeutic strategies.

Environmental Triggers

Common external causes include:

- **Climate and Weather Changes:** Sudden shifts in temperature, humidity, barometric pressure, or altitude can precipitate headaches, notably migraine. Lightning, storms, dry or dusty conditions, and high winds are also associated triggers.
- **Light and Noise:** Bright sunlight, flickering lights (screens, television), and loud, persistent, or sudden

noises are well-reported triggers, particularly for migraineurs who have increased sensory sensitivity.

- **Air Quality and Odors:** Exposure to strong odours (perfume, smoke, chemicals), indoor air pollution, or poor ventilation can induce headaches in susceptible individuals, possibly by provoking neurovascular reactions.
- **Motion and Travel:** Car, boat, or airplane journeys, especially with changes in atmospheric pressure, may trigger so-called “motion headaches,” as can jet lag, sleep deprivation, or changes in routine.
- **Dietary Triggers:** Certain foods and additives—such as caffeine, chocolate, cheese, cured meats, monosodium glutamate (MSG), nitrites, aspartame, and alcohol—are classic triggers in those with migraine predisposition.
- **Physical Exertion and Posture:** Overexertion, bending, straining, poor posture (e.g., at computers), or localized pain from dental or cervical issues can initiate or intensify headaches.
- **Heavy hairs, hairbands, swimming goggles, professional helmets, tight hat and head scarfs, etc.** are also the common external causes of headache.

Internal Causes of Headache

Headaches can originate from internal disturbances across multiple body systems. Understanding these systemic causes is critical for both diagnosis and holistic management.

Neurological System

Primary and Secondary Headaches:

- **Migraine:** A primary neurological disorder marked by recurrent moderate-to-severe head pain, often accompanied by hypersensitivity (photophobia, phonophobia), gastrointestinal symptoms, or aura (visual or sensory disturbance).
- **Tension-Type Headache:** Mild-to-moderate, bilateral, band-like pressing or tightening pain, often related to stress or muscle tension; lacks the classic migrainous features.
- **Cluster Headache and Trigeminal Neuralgia:** Severe, unilateral, short-duration attacks; the latter presenting as electric shock-like pain in the trigeminal nerve distribution.
- **Secondary Causes:** Headaches due to central nervous system tumors, intracranial bleeding, traumatic brain injury, multiple sclerosis, cerebrovascular accidents, or increased intracranial pressure (e.g., idiopathic intracranial hypertension).

Many systemic neurological diseases manifest as headache, either as a presenting or accompanying symptom.

Vascular System:

- **Hypertension:** Acute, severe hypertension (systolic ≥ 180 mmHg or diastolic ≥ 120 mmHg) can cause a bilateral pulsating headache, often with facial flushing, visual changes, or even signs of organ damage. Posterior reversible encephalopathy syndrome (PRES) can present with headache, confusion, and seizures in the context of hypertensive emergencies.
- **Giant Cell Arteritis:** In older adults, new-onset headache with scalp tenderness and jaw claudication may indicate this vasculitis—a medical emergency due to risk of vision loss.
- **Cerebrovascular Events:** Acute ischemic or haemorrhagic stroke may present as severe, sudden ("thunderclap") headache. Venous sinus thrombosis is another vascular cause, often associated with papilledema and neurological deficit.
- **Other Vascular Causes:** Arteriovenous malformations, aneurysms, and carotid/vertebral artery dissections are important to consider in acute severe headache presentations.

Infectious System:

- **Meningitis:** Inflammation of the meninges (virally or bacterially mediated) causes a severe, sudden headache, often with fever, neck stiffness, photophobia, and altered consciousness. Bacterial forms can rapidly progress to life-threatening complications if untreated.
- **Encephalitis:** presents similarly but with more prominent neurological dysfunction such as personality changes, confusion, and seizures.
- **Other Infections:** Sinusitis, otitis, dental abscesses, and systemic infections can cause referred or secondary headaches.

Ocular System:

- **Glaucoma:** Acute angle-closure glaucoma presents as severe periocular or retro-orbital pain, often with decreased vision, halos around lights, red eyes, and systemic features such as nausea and vomiting. Chronic open-angle glaucoma, by contrast, is generally painless.
- **Refractive Errors and Eye Strain:** Prolonged reading, screen exposure, myopia, and asthenopia can cause frontal or periorbital headaches, typically after extended visual tasks.
- **Other Ocular Causes:** Uveitis, optic neuritis, and ocular hypertension are fewer common causes.

Endocrine System:

- **Hypothyroidism:** Frequently associated with bilateral, non-pulsatile headaches that resolve with correction of thyroid hormone deficiency. Mechanisms may include altered metabolism, immune effects, or vascular changes.
- **Menstrual and Hormonal Headaches:** Fluctuations in estrogen and progesterone trigger headaches, notably in menstruation, pregnancy, perimenopause, and with oral contraceptive use.
- **Other Endocrine Disorders:** Pheochromocytoma (paroxysmal headache with hypertension) and pituitary adenomas (from mass effect or hormonal excess/deficiency) are important considerations.

Psychological System:

- **Stress and Anxiety:** Stress is a well-recognized trigger of both tension-type and migraine headaches. Anxiety and depressive disorders frequently co-exist with chronic headaches and may lower the threshold for pain perception and coping ability.
- **Somatoform and Conversion Disorders:** Conversion of psychological distress into physical symptoms, including headache, is not uncommon.
- **Fatigue and Insomnia:** Chronic sleep disturbances (including obstructive sleep apnea) can precipitate or exacerbate chronic headaches.

Systemic Causes:

- **Autoimmune Diseases:** Systemic lupus erythematosus (SLE) and other autoimmune vasculitis feature headache as a component of neuropsychiatric involvement. “Lupus headache” may mimic migraine, tension-type, or present as severe, persistent pain not responsive to conventional analgesics.
- **Hypertension, Anemia, Diabetes:** Poorly controlled systemic diseases can act as both risk factors and precipitants of headache disorders.
- **Sinusitis, Allergies, Asthma, Sleep Apnea:** Chronic inflammation, hypoxia, or alterations in blood gas composition may contribute to secondary headache syndromes.

- **Medications and Withdrawal:** Overuse of analgesics, caffeine, nitrates, oral contraceptives; withdrawal states; and certain chronic medications can cause new-onset or rebound headaches.

The multidimensionality of headache etiology underscores the necessity of careful systemic assessment in every patient, especially in new, severe, or changing headache patterns.

Homeopathic Remedies for Headache

Homeopathy, a system premised on “like cures like” and individualization, offers a spectrum of constitutional and symptomatic remedies for headache, each tailored to distinct patterns, triggers, and modalities. The remedies below are among the most prominent and frequently used in homeopathic practice, supported by both clinical experience and case-based literature. While scientific consensus on their mechanism remains debated, many patients find symptomatic relief, particularly in primary headache forms.

Belladonna

Indications: Sudden-onset, intense throbbing or pulsating headaches (often right-sided), especially in temporal regions. Head appears hot, face flushed, eyes red, with a sensation of fullness or rush of blood to the head. Pain is aggravated by light, noise, cold air, motion, sun exposure, and even the slightest jar.

Relief: Pressure, tight bandaging, lying in a dark room, remaining motionless.

Modalities:

- **Worse:** Light, noise, sun, jar, motion, cold air.
- **Better:** Pressure, tight bandage, rest in a dark, quiet environment.

Accompanying Symptoms: Photophobia, neck stiffness, nausea, occasionally visual or auditory disturbances.

Character: Sudden explosive onset, violent, “as if the head will burst,” sometimes with fever or hypertension; may be seen in migraine, tension-type, or febrile headaches such as in early meningitis.

Nux Vomica

Indications: Headaches related to gastric disturbances (indigestion, acidity, constipation), stress, excessive mental exertion, or stimulant/alcohol abuse. Tends to affect sedentary, irritable, oversensitive individuals relieved by strong pressure and aggravated in the morning, after eating, or with external stimuli.

Relief: Sleep, rest, strong pressure, alone in quiet darkness.

Modalities:

- **Worse:** Morning, mental exertion, after eating, anger, excess coffee/spices/alcohol, light/noise/odours.
- **Better:** Rest, sleep, pressure, warm coverings.

Accompanying Symptoms: Nausea, sour vomiting, constipation with

ineffective urging, irritability, impatience.

Character: Occipital or frontal, as if a nail is driven in; often after emotional stress, overindulgence, or withdrawal.

Bryonia alba

Indications: Severe, splitting or bursting headache that worsens with any movement, stooping, talking, or even eye movement; often starts at the back of the head and radiates to the forehead. Patient prefers to lie motionless in a dark, quiet room.

Relief: Rest, firm pressure, lying still.

Modalities:

- Worse: Movement of any kind, coughing, talking, rising, heat, touch.
- Better: PRESSURE, lying on painful side, staying absolutely still.

Accompanying Symptoms: Constipation, dry mouth, intense thirst for cold water, aversion to light and noise.

Character: Heavy, severe pain; frequently associated with dehydration, fever, or after illness with significant fluid loss.

Gelsemium

Indications: Dull, heavy, band-like headaches, often starting at the neck or occiput and radiating forward. Head feels full, heavy, with marked drowsiness, weakness, or a sensation of “nervous exhaustion.” Useful for headaches from anticipation, emotional stress, or after influenza.

Relief: Rest, lying with the head elevated, in the open air.

Modalities:

- Worse: Mental exertion, anticipation, emotional excitement, warm rooms, sudden emotions.
- Better: Rest, open air, urination, sleep.

Accompanying Symptoms: Dizziness, blurred vision/double vision, trembling, lack of thirst.

Character: “Band around the head,” heaviness, especially after worry/fear/exhaustion; patient is dull, apathetic, desires solitude.

Sanguinaria canadensis

Indications: Classic right-sided migraine or cluster headaches, beginning in the occiput, ascending and settling over the right eye. Pain is throbbing or lancinating, aggravated by movement, light, odours, heat, and sun exposure.

Relief: Sleep, lying quietly in a dark room, passage of copious urination, vomiting, pressure over eyes.

Modalities:

- Worse: Sunlight, movement, odours, fasting, menopause.
- Better: Sleep, pressure, open air, vomiting, urination.

Accompanying Symptoms: Nausea/vomiting, facial flushing, burning sensations on the cheeks/palms/soles, sensitivity to noise and light, desire for spicy foods.

Character: Periodic, right-sided, often with visual or gastric symptoms, aggravated by menopause, fasting, and heat.

Natrum Muriaticum

Indications: Frontal or hemicranial headaches, often “as if little hammers are beating the skull,” arising after emotional stress, grief, or sun exposure. Strongly suited to sensitive, reserved individuals with a history of suppression of feelings (especially grief/disappointment), often craving salt.

Relief: Open air, lying in a dark, quiet room, tight bandaging, sleep.

Modalities:

- Worse: Sun, heat, noise, reading, grief, emotional upsets, menstruation.
- Better: Rest, pressure, cold bathing, being alone.

Accompanying Symptoms: Visual disturbances (blur before eyes), numbness/tingling of lips/tongue, aggravation around menses, digestive disturbances.

Character: Gradual onset, periodic, often linked to emotional upset and sunlight; worsen with exertion or menses; commonly present in melancholic or perfectionist personas.

Iris versicolor

Indications: Migraine with pronounced nausea, sour or bilious vomiting, or visual disturbance (blurred vision, aura) preceding headache. Prefers right-sided,

periodic headaches, often starting with visual changes ("blur before eyes"), followed by burning in the throat, sour eructation, or gastric upsets.

Relief: Continued gentle motion, lying quietly, vomiting, pressure.

Modalities:

- Worse: Evening, rest, fasting, sweets, cold air, even after letting down from stress.
- Better: Motion, pressure, vomiting, open air, sleep.

Accompanying Symptoms: Sour, burning vomiting, burning in throat, scalp constriction, photophobia, intensified by stress or skipping meals.

Character: Headache with distinct digestive connections; "sick headache" of those prone to indigestion and hypersensitivity to food triggers.

Spigelia

Indications: Left-sided, violent, neuralgic, throbbing, or shooting pain starting from the back of the head and radiating to (or centered above) the left eye. Most often associated with cluster headaches, neuralgias (esp. trigeminal), or supraorbital pain.

Relief: Cold applications, rest, lying with head high, pressure.

Modalities:

- Worse: Motion, stooping, touch, noise, exposure to cold air, eye movement or bright light.
- Better: Rest, pressure, lying on right side with high pillow, cold.

Accompanying Symptoms: Facial and dental neuralgia, tearing or burning sensation, redness and watering of eyes, palpitations, anemic/weak individuals.

Character: Severe, one-sided (classically left) pain; frequent in neuralgic headaches, sometimes with visual symptoms or heart palpitations.

Glonoinum

Indications: Violent, throbbing, congestive headaches with a sensation of fullness or bursting as if the head will explode — closely tied to heat, sun exposure, high blood pressure, or menopause. Throbbing in temples, often accompanied by flushing, nausea, vertigo, or visual disturbances.

Relief: Open air, cold applications, pressure, sleep.

Modalities:

- Worse: Sun, heat, jar, stooping, motion, hot weather, suppressed menses.
- Better: Open air, cold, sleep, elevation of head.

Accompanying Symptoms: Facial flushing, palpitations, increased blood pressure, “shock-like” sensations, heaviness, possible sensitivity to changes in weather, often linked to sunstroke or prolonged sunlight exposure.

Character: Explosive, pulsatile, sometimes with visual sparks or black spots; particularly significant for headaches linked to vasodilation, sunstroke, menopause, or hypertension.

Cimicifuga (*Actaea racemosa*)

Indications: Headache associated with worry, menstruation, menopause, or uterine/ovarian disorders. Pain in the occiput radiating to neck/back or the vertex, often with mental gloom, depression (“black cloud”), or restlessness. Suited to nervous, sensitive women, especially during the reproductive or climacteric period.

Relief: Open air, pressure, rest, continued gentle motion, warmth.

Modalities:

- Worse: Cold air, morning, during menses, motion, puberty, climacteric transition.
- Better: Open air, rest, eating, warmth, pressure, continued motion.

Accompanying Symptoms: Neck stiffness, muscular pain, facial neuralgia, visual disturbances, depression, menstruation/menopausal issues.

Character: Dull, heavy, oppressive, or aching headaches in context of hormonal changes or emotional distress; associated with neck/back rigidity, mental symptoms, or gynecological complaints.

Conclusion

Headache is a multifaceted, frequently disabling complaint with a vast range of primary and secondary causes. Proper classification, attentive history, and recognition of red flags are essential for safe management and prevention of serious consequences. The complexity

of headache etiology—from primary neurovascular variability to systemic, ocular, infectious, endocrine, and psychiatric contributors—necessitates an integrative, patient-centred approach.

Homeopathy, while controversial within evidence-based medicine, remains popular globally due to its individualized remedies, gentle side-effect profile, and holistic ethos. Remedies such as Belladonna, Nux vomica, Bryonia alba, Gelsemium, Sanguinaria canadensis, Natrum muriaticum, Iris versicolor, Spigelia, Glonoinum, and Cimicifuga offer nuanced symptom-based relief for various headache patterns. For robust, persistent, unusual, or rapidly changing headaches, all patients—especially those with alarming symptoms—must seek prompt conventional medical assessment to rule out serious causes before relying on homeopathic or alternative modalities. Only with such vigilance can safety and well-being be assured in the complex realm of headache therapeutics.

References:

1. Ashish Patel, Akash Pawar, Rajesh Kumar Jha: Study of Hypothyroidism in Headache patients. Scholars Journal of Applied Medical Sciences (SJAMS). May 2017; 5(5B):1826-1828.
2. Rakesh Gupta, Vismaya Verlekar: Iris Versicolor as Anti-Migraine Remedy and Utility of MIDAS. <https://hpathy.com/materia-medica/iris-versicolor-as-anti-migraine-remedy-and-utility-of-midas/>
3. Deborah I. Friedman, Timothy De Ver Dye: Migraine and the Environment. Headache. June 2009.
4. Yuanyuan Rui, Bing Wu, Qian Li and Kai Zhang: Global trends and regional disparities in the burden of headache disorders, 1990–2021: a comprehensive analysis of the global burden of disease study. Frontiers, 05 June 2025.
5. Dr. Ujjwala Zurawat, Dr. Prashant Patil, Dr. Sarika E. S: Effectiveness of Homeopathic Medicine Iris Versicolor 200C in the Management of Migraine: A case series study. IJIRT, Volume 12 Issue 1, June 2025.
6. Lars Jacob Stovner, Knut Hagen, Mattias Linde & Timothy J. Steiner: The global prevalence of headache: an update, with analysis of the influences of methodological factors on prevalence estimates. The Journal of Headache and Pain volume 23, Article number: 34, 12 April 2022.
7. Donald Thomas, MD: Lupus Headaches: Causes, Symptoms, and Treatment. Symptoms In Lupus on December 2, 2024 (Updated May 18, 2025). <https://www.lupusencyclopedia.com/lupus-headaches-causes-symptoms-and-treatment/>
8. Eman Samy, Enas S. Zahran, Mona Sabry and Hosna Elshony:

- Headaches in SLE patients: a cross sectional analysis of clinical, immunological, and Radiological Correlations. BMC Rheumatology, 2024.
9. Giorgio Cruccu, Nanna B. Finnerup, Troels S. Jensen, Joachim Scholz, Marc Sindou, Peter Svensson, Dr. Odont Rolf-Detlef Treede, Joanna M. Zakrzewska, Turo Nurmikko: Newclassification and diagnostic grading for practice and research. Trigeminal neuralgia, 14 September 2025.
 10. Giorgio Lambru, Joanna Zakrzewska, Manjit Matharu: Trigeminal neuralgia: a practical guide. Pract Neurol: 9 June 2021.
 11. Dr. Vikas Sharma: Belladonna – Homeopathic Medicine: Its Uses, Indications and Dosage. DrHomeo.
<https://www.drhomeo.com/medicine/belladonna-homeopathic-medicine/>
 12. Dr. Vikas Sharma: Nux Vomica – Homeopathic Medicine: Its Uses, Indications, and Dosage. DrHomeo.
<https://www.drhomeo.com/homeopathy/nux-vomica-homeopathic-medicine/>
 13. Dr. Vikas Sharma: Bryonia Alba – Homeopathic Medicine: Its Uses, Indications and Dosage. DrHomeo.
<https://www.drhomeo.com/medicine/bryonia-alba-homeopathic-medicine/>
 14. Dr. Vikas Sharma: Gelsemium – Homeopathic Medicine: Its Uses, Indications and Dosage. DrHomeo.
<https://www.drhomeo.com/medicine/gelsemium-homeopathic-medicine/>
 15. Dr. Vikas Sharma: Sanguinaria Canadensis: Homeopathic Medicine – Its Use, Indications And Dosage. DrHomeo.
<https://www.drhomeo.com/medicine/sanguinaria-canadensis-homeopathic-medicine-its-use-indications-and-dosage/>
 16. Dr. Skandhan S Kumar: Migraine its more than a headache: Efficacy of natrum muriaticum as constitutional homoeopathic approach. International Journal of Homoeopathic Sciences, 28-03-2019.
 17. Dr. Vikas Sharma: Sanguinaria Canadensis: Spigelia: Homeopathic Medicine – Its Use, Indications And Dosage. DrHomeo.
<https://www.drhomeo.com/medicine/spigelia-homeopathic-medicine-its-use-indications-and-dosage/>
 18. Dr. Vikas Sharma: Glonoinum – Homeopathic Medicine: Its Uses, Indications and Dosage. DrHomeo.
<https://www.drhomeo.com/medicine/glonoinum-homeopathic-medicine/>

19. Dr Mini I V.: GLONOIUM beyond the fog of Headache. Homeo book, July 18 2024.

<https://www.homeobook.com/glononium-beyond-the-fog-of-headache/>

20. Dr. Vikas Sharma: Cimicifuga Racemosa: Homeopathic Medicine – Its Use, Indications And Dosage. DrHomeo.

<https://www.drhomeo.com/uncategorized/cimicifuga-racemosa-homeopathic-medicine-its-use-indications-and-dosage/>