



Headache & Migraine

Exclude the dangerous, then treat the disabling · Most headache is primary, but the history is what proves it

SNNOOP10

red flags for secondary headache

SCREEN FOR SECONDARY HEADACHE *SNNOOP10 — any one flag changes the workup*

SYSTEMIC & NEURO

Systemic symptoms including **fever** or weight loss · Neoplasm in the history · Neurological deficit or reduced consciousness · Onset that is **sudden and thunderclap** · Older age, new headache **over 50**.

THE TEN Ps

Pattern change or a genuinely new headache · Positional · Precipitated by cough, sneeze or exertion · Papilledema · Progressive or atypical · Pregnancy or puerperium · Painful eye with autonomic features · Post-traumatic · Pathology of immunity such as HIV · Painkiller overuse.

WHAT EACH SUGGESTS

Fever with neck stiffness → meningitis. **Over 50 with jaw claudication and scalp tenderness** → giant cell arteritis: start steroid before the biopsy, since sight loss is irreversible. **Worse lying flat with papilledema** → raised pressure or a mass. **Worse standing** → low pressure. **Pregnancy or puerperium** → cerebral venous thrombosis and pre-eclampsia.

THUNDERCLAP HEADACHE *maximal within a minute — a distinct pathway*

- 1 **Non-contrast CT head urgently.** Performed and reported **within 6 hours of onset in a neurologically intact patient**, it is close to definitive for subarachnoid hemorrhage. **Its sensitivity falls steadily after that**, so the timing of the scan relative to onset is what determines what you do next.
- 2 **If the CT is negative and beyond that window, proceed to lumbar puncture at 12 hours or more from onset**, looking for **xanthochromia** — the delay is needed for hemoglobin to break down, which is what distinguishes true bleeding from a traumatic tap. **CT angiography is the alternative pathway** where locally agreed.
- 3 **Do not stop at subarachnoid hemorrhage.** Consider **cervical artery dissection** (neck pain, Horner's, recent neck trauma or manipulation), **cerebral venous sinus thrombosis** (pregnancy, puerperium, thrombophilia, estrogen), **pituitary apoplexy** (visual field loss, ophthalmoplegia), and **reversible cerebral vasoconstriction syndrome** (recurrent thunderclaps, often triggered by exertion, sex or vasoactive drugs).
- 4 **Fever, headache and confusion means empirical treatment before imaging results.** Give **antibiotics and aciclovir** and do not let the scan delay them.

IDENTIFY THE PRIMARY HEADACHE *three patterns cover most of it*

Type	Pattern and the point that matters
Migraine	4 to 72 hours , typically unilateral, pulsating, moderate to severe, worsened by routine activity , with nausea and photophobia or phonophobia . The patient wants to lie still in the dark. Aura is usually visual, evolves over 5 to 60 minutes and precedes the headache. Sudden-onset or fixed-side aura is not typical and warrants imaging.
Tension-type	Bilateral, pressing or tightening, mild to moderate, not aggravated by activity , without significant nausea. The patient can usually carry on. Often coexists with migraine, and treating only the tension headache leaves the disability untouched.
Cluster	Strictly unilateral, orbital or temporal, excruciating, 15 to 180 minutes , in bouts of up to eight a day, with ipsilateral autonomic features — lacrimation, rhinorrhea, ptosis, miosis. The patient is restless and paces , in contrast to migraine. Acute treatment is high-flow oxygen and subcutaneous sumatriptan; verapamil is the preventive , with ECG monitoring for heart block.
Medication overuse	Suspect when headache is present on 15 or more days a month in someone taking simple analgesics on 15 or more days, or triptans, combination analgesics or opioids on 10 or more days , for over 3 months. The treatment is withdrawal plus a preventive , and it is a leading cause of apparently refractory headache.

TREAT THE ATTACK *early, adequately dosed, and never with opioids*

Step	Detail
Take it early	Efficacy falls sharply once the headache is established. Underdosing and delay are the commonest reasons a treatment appears to fail.
First line	A full-dose NSAID or high-dose aspirin , with an antiemetic such as metoclopramide or prochlorperazine — which treats the headache itself as well as the nausea, and overcomes the gastric stasis that blocks absorption of everything else.
Triptans	Add or substitute if simple analgesia is insufficient. Use a non-oral route when vomiting — subcutaneous or nasal. Avoid in ischemic heart disease, prior stroke, uncontrolled hypertension and in hemiplegic or brainstem-aura migraine. Failure of one triptan does not predict failure of another.
Gepants and ditans	Ubrogepant and rimegepant (CGRP receptor antagonists) and lasmiditan (a 5-HT_{1F} agonist) do not cause vasoconstriction , which makes them options where triptans are contraindicated or ineffective. Lasmiditan causes sedation and carries a driving restriction after dosing.
Avoid	Opioids and butalbital-containing combinations. They work poorly, promote medication overuse headache and chronification, and interfere with subsequent treatment. For status migrainosus beyond 72 hours : fluids, a parenteral antiemetic, a parenteral NSAID, and dexamethasone to reduce early recurrence.

PREVENT THE NEXT ONE *offer it early — most people who need it are not on it*

WHO AND HOW

Offer prevention at roughly four or more headache days a month, or fewer if attacks are disabling or acute treatment is failing. **Give any preventive a fair trial at a therapeutic dose for 8 to 12 weeks before calling it a failure**, and use a **headache diary** to judge the response rather than recollection. Address **sleep, hydration, caffeine, alcohol, stress and skipped meals**, and treat any coexisting depression or anxiety.

THE OPTIONS

Established oral agents: propranolol, candesartan, amitriptyline and topiramate. **Topiramate is teratogenic and reduces the efficacy of hormonal contraception; sodium valproate must not be used in anyone who could become pregnant.** **CGRP-targeted therapies** — the monoclonal antibodies and the oral gepants atogepant and rimegepant — are now supported as a **first-line preventive option rather than only after older drugs fail.** **OnabotulinumtoxinA** is for chronic migraine of 15 or more headache days a month.

PEARLS & PITFALLS

- **Ask when the headache peaked.** Maximal within a minute is thunderclap and buys a different pathway regardless of how well the patient now looks.
- **New headache over 50 needs an ESR or CRP** — start steroid immediately if giant cell arteritis is suspected.
- **Count the analgesic days.** Medication overuse is the commonest reason a chronic headache will not settle.
- **Add an antiemetic** — gastric stasis in migraine blocks absorption of the drug you just gave.
- **One failed triptan is not triptan failure.** Switch agent, switch route, and dose earlier before abandoning the class.
- **Do not prescribe opioids for migraine.** They worsen the long-term course and drive chronification.

References: International Classification of Headache Disorders, 3rd edition · SNNOOP10 red-flag list for secondary headache · American Headache Society 2024 position statement on CGRP-targeting preventive therapies · national guidance on the diagnosis and management of headache in adults.

Educational aid; verify against local neurology protocol, cardiovascular contraindications and pregnancy status.

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