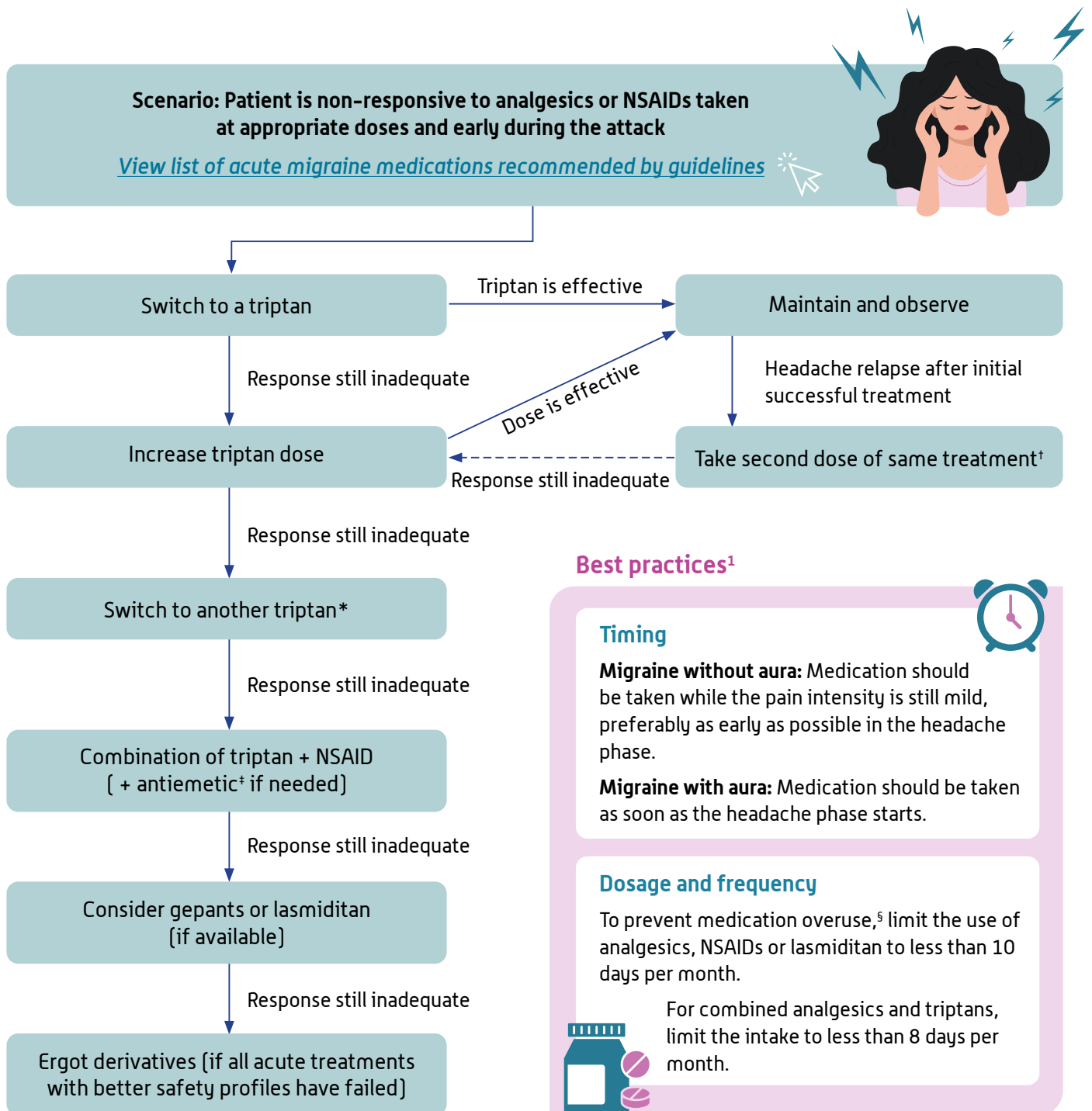


International Headache Society (IHS) Global Practice Recommendations: Pharmacological Treatment of Migraine

Which acute treatment is suitable for your patient?

Acute (abortive) treatment aims to stop or reduce the severity of a migraine attack once it has begun. The following algorithm outlines a stepwise approach to selecting and escalating acute medications.¹



*If the patient is not responding to the first triptan, used in adequate dosages, route of administration, and taken at the proper time in two out of three attacks.

[†]It is important to wait at least 2 hours from the first dose before repeating a combination treatment.

[‡]Non-oral formulations of acute medications may be considered for nausea and vomiting, such as subcutaneous injections, intranasal sprays or suppositories, based on availability, subjective preference, and medical history. Orally disintegrating tablets may also be considered.

[§]Please note that recommended limits for acute migraine medication use may vary across international guidelines.

Abbreviation: NSAID, non-steroidal anti-inflammatory drug.

Reference: 1. Puledda F, et al. *Cephalgia* 2024;44(8).

Managing acute migraine in complex presentations¹



Inadequate response to paracetamol/NSAIDs

Preferred: Triptan

If inadequate response in ≥ 2 of 3 attacks:

Try a different triptan (up to 3 triptans before changing class)

If ineffective, consider:

Gepants or lasmiditan

If ineffective, consider:

Ergot derivatives



Menstrual migraine

Preferred: Triptan

If inadequate response after dose optimisation and triptan switching, try:

- Combination of triptan with NSAID
- Gepant or lasmiditan
- Short-term prevention with naproxen or frovatriptan (if cycle is regular)

If all above treatments are ineffective, consider:

- Hormonal treatment with progesterone-only contraceptives
- Referral to a specialist



History of stroke, CVD, or uncontrolled hypertension

Preferred: Paracetamol

If inadequate response after dose optimisation, consider:

Gepants or lasmiditan

Other options to consider:

- NSAIDs (used conservatively, considering the concomitant use of antithrombotic therapy)
- Triptans (used with caution if the above conditions are under control and the above treatments were not effective)

AVOID: Dihydroergotamine and ergotamine

Managing acute migraine in special populations¹

Pregnant women

- **Preferred:** Non-pharmacologic approaches

If ineffective, consider:

- Paracetamol or triptan
- Metoclopramide may be added for nausea, vomiting or if pain relief is inadequate



Breastfeeding women

- **Preferred:** Paracetamol

If ineffective, consider:

- Diclofenac, naproxen, triptans and gepants can be used with caution, such as withholding breastfeeding for 8–12 hours.



Children and adolescents

- **Preferred:** Paracetamol (dose adapted to body weight)

If ineffective, consider:

- Triptan (oral rizatriptan or sumatriptan nasal spray are the most studied triptans in adolescents)
- Metoclopramide may be added for nausea, vomiting, or in very disabling attacks



Older individuals (>65 years)

- **Preferred:** Paracetamol

If ineffective, consider:

- Acetylsalicylic acid and NSAIDs with monitoring of potential adverse events related to gastrointestinal bleeding, and renal and hepatic insufficiency

If ineffective, consider:

- Triptans as a third-line option in individuals without uncontrolled hypertension or serious cardiovascular or cerebrovascular disease

Other options to consider:

- Gepants or lasmiditan for people with contraindications, or not responding, to triptans



When does your patient need preventive treatment?

Preventive treatment is used to reduce the frequency, severity, and duration of migraine attacks over time. The following guidance outlines criteria for initiating, evaluating, and managing preventive pharmacotherapy.¹



Consider starting your patient on preventive treatment if they present with one or more of the following conditions:

≥4 headache days per month

Inadequate response to acute migraine medication

Migraine impacts personal, social and professional life

Acute medications are used frequently to treat the attacks

Initiate or refer for preventive treatment¹

[View list of preventive migraine medications recommended by guidelines](#)

Evaluate the effectiveness of a preventive migraine treatment after:

3 months



For oral medication

6 months



For injectables
(administered quarterly)

Criteria to rate preventive therapy as effective:

- ≥50% reduction in monthly migraine days (or moderate–severe headache days), ideally based on a headache diary
- Clinically meaningful patient-reported improvement evaluated by Patient Global Impression scales
- Clinically meaningful improvement in MIDAS or HIT-6 scores[†]
- *For chronic migraine:* A ≥30% reduction may be sufficient to continue treatment beyond 3 months if multiple preventive options have failed

If ineffective

Combination therapy with two migraine preventive agents is recommended when:

- Individual experiences inadequate response to a single agent
- The combination of two agents represents an advantage in the management of comorbidities

If effective

Before considering treatment discontinuation upon reaching effectiveness,* continue for at least:

6 months



For oral medication

12 months



For injectables
(administered quarterly)

*The decision to stop a migraine preventive drug should be based on having **less than 4 migraine days per month**, over a period of **3 consecutive months** or based on the patient's satisfaction with the reduction of disease burden achieved.

[†]The clinically meaningful improvement in MIDAS score is defined by the American Headache Society as: i) reduction of ≥5 points for baseline score 11–20 or ii) reduction of ≥30% for baseline score ≥20. The clinically meaningful improvement in HIT-6 score is a reduction of ≥5 points.^{1,2}

Abbreviations: HIT-6, Headache Impact Test-6; MIDAS, Migraine Disability Assessment; NSAID, non-steroidal anti-inflammatory drug.

References: 1. Puledda F, et al. *Cephalalgia* 2024;44(9). 2. American Headache Society. *Headache* 2019;59:1-18.

Managing migraine prophylaxis in complex presentations¹



Medication overuse headache

The following approaches are recommended:

- Reduced intake of overused drug(s) **simultaneous** with the initiation of preventive treatment
- Reduced intake OR interruption of overused drug(s) **followed by** initiation of preventive treatment

Treatment for medication overuse may include:

- CGRP monoclonal antibodies, topiramate and onabotulinumtoxinA



Chronic migraine

Treatment for chronic migraine may include:

- Atogepant, erenumab, eptinezumab, fremanezumab, galcanezumab, onabotulinumtoxinA and topiramate

Additional considerations:

- Of note, topiramate should be avoided during pregnancy and in women of childbearing age who are not using highly effective contraception methods

Managing migraine prophylaxis in special populations¹

Pregnant women

- **Preferred:** Non-pharmacologic approaches OR peripheral nerve blocks

If ineffective, consider:

- Propranolol
- Amitriptyline
- OnabotulinumtoxinA (for chronic migraine)

AVOID:

- Propranolol (for women in their third trimester to avoid the risk of adverse events to the fetus and neonate)
- Valproate, topiramate, candesartan and lisinopril



Breastfeeding women

- **Preferred:** Non-pharmacologic approaches OR peripheral nerve blocks

If ineffective, consider:

- Propranolol
- Amitriptyline
- OnabotulinumtoxinA (for chronic migraine)

If response still inadequate, consider:

- Candesartan (used with caution)
- CGRP monoclonal antibodies (used with caution after ≥ 2 weeks postpartum)

AVOID:

- Lisinopril



Children and adolescents

- **Preferred:** Beta-blocker or flunarizine (dose adapted to body weight)

If ineffective, consider:

- Low-dose topiramate or amitriptyline



Older individuals (>65 years)

- **Preferred:** Appropriate prophylactic migraine treatment selected after considering possible comorbidities and the needs of dose adjustments, for all treatments

Additional considerations:

- Monitor closely for early detection of adverse effects and the potential need to modify the course of treatment
- OnabotulinumtoxinA may represent a treatment option for individuals with chronic migraine and individuals up to 80 years

