

in collaboration with

Lifting The Burden

European principles of management of headache disorders in primary care (2nd edition)

12. Management of medication-overuse headache (MOH)

Medication-overuse headache (MOH) is one of the syndromes characterised by **headache occurring on \geq15 days/month**. It is often daily, but variable in site, intensity and character. It greatly impairs quality of life.

MOH is an aggravation of a prior headache disorder (usually migraine, but sometimes tension-type headache) caused by chronic overuse of medication taken to treat it.

General principles

- **Prevention**, through **education**, is preferable to cure.
- Once MOH has developed, **early intervention** has better chance of success.
- The necessary management of established MOH is to stop overuse of the suspected medication(s).
- **Patient education**, that medication taken to relieve headache is in fact its cause, is the essential first step:
 - success in management depends crucially on **patients' understanding** that their medication taken to relieve their headache is in fact its cause.
- Management is usually possible in **primary care**.
- The **long-term prognosis is usually very good**. Most cases revert to episodic headache, although the outcome depends on:
 - the type of headache from which MOH developed;
 - the class of medication overused (opioids causing greatest difficulty);
 - the duration of overuse;
 - **comorbidities** (psychiatric, or other causes of chronic pain).

Education of patients

A patient information leaflet on medication-overuse headache and its management, developed by *Lifting The Burden*, is available as <u>Supplementary materials #24</u>.

Key points of information are:

- The "treatment" a patient is taking for headache is actually **the cause** of it.
- Effective treatment requires, in the first instance, **stopping use of the suspected medication(s)** (withdrawal):
 - there is no other option;
 - many patients recover from this alone.
- **Initial worsening** of symptoms for 1-2 weeks during and after withdrawal must be expected.
- The **outcome is usually very good**, with reversion in most cases, within 2 months, to the antecedent episodic headache disorder.

Objectives

There are **four separate objectives** in the complete management of MOH, and all are important:

- **stop** the overused medication;
- recovery from MOH (which should follow);
- review and reassess the underlying headache disorder (usually migraine or tension-type headache);
- **prevent relapse**, while allowing acceptable use of medications.

In addition, comorbidities may require management.

Principles of withdrawal

- Worsening headache for 1-2 weeks is almost inevitable:
 - accordingly, withdrawal should be **planned** to avoid unnecessary lifestyle disruption;
 - 1-2 weeks' sick leave may be needed;
 - admission to hospital during withdrawal is rarely necessary unless:
 - overused medication(s) include opioids;
 - for management of comorbidities.
- Withdrawal may be undertaken in any of three ways, the choice being made by the patient:
 - abruptly:
 - there is evidence that this is the most successful approach;

- by **tapering** over a period of 2-4 weeks:
 - withdrawal symptoms are likely to be less intense but more prolonged;
- by replacing the overused medication(s) with naproxen 500 mg twice daily for 3-4 weeks and no longer:
 - the purpose is to break the behavioural "have headache take medication" link;
 - many patients become headache-free on this medication;
 - naproxen must be stopped after this period (never continued).
- Headache usually shows signs of improvement 1-2 weeks after stopping overused medication(s).
- **Recovery** continues slowly for up to 2 months.
- Prophylaxis against the antecedent headache (most often migraine) may be introduced on its return, or commenced in parallel with the withdrawal process.

Follow-up

Every patient stopping medication overuse requires follow-up in order to provide support and observe outcome.

- **First review** is advised **after 2-3 weeks** to ensure withdrawal has been successfully achieved.
- Use of a **calendar** during withdrawal is strongly recommended to record symptoms and medication use, and to record changing headache pattern. An example of a simple calendar is available as <u>Supplementary materials</u> <u>#17</u>.
- Most patients revert to their **antecedent headache** (usually migraine or tension-type headache) within 2 months; this will need review and appropriate management.
- The **relapse** rate is high within the first year: further follow-up is important to avoid it, and many patients require extended support.

Re-introducing withdrawn medication

- Previously overused medications should be reassessed:
 - alternatives should be used whenever possible;
 - if still needed, they may be **cautiously reintroduced** after 2 months.
- Frequency of use should be on **no more than 10 days/month**:
 - use on more than 6 days/month raises the risk of recidivism;
 - patients should avoid treating headaches on more than three days in a row.