Headache pathway Referral criteria for headache referrals to secondary care



Key points

- Migraine, TTH and MOH are most common headache disorders and in most cases not difficult to manage → initial primary care management recommended
- Good management of most headache disorders requires monitoring over time
- History is all-important, there is no useful diagnostic test for primary headache disorders and MOH
- Headache diaries (over few weeks) are essential to clarify pattern and frequency of headaches, associated symptoms, triggers, medication use/overuse
- Special investigations, including neuroimaging, are not indicated unless the history/ examination suggest secondary headache
- Sinuses, refractive error, arterial hypertension and cervicogenic problems are not usually causes of headaches
- Opioids (including codeine and dihydrocodeine) not to be prescribed in migraine

Assessment of patients with headache

Full history, including:

- age of headache onset (if >50 years consider Temporal arteritis)
- special attention to any new headache or significant change in existing headache
- duration of headache:

Chronic migraine (longstanding and continuous; previously intermittent) vs

New Daily Persistent Headache (usually recent and continuous) vs

Trigeminal or occipital neuralgia (paroxysmal)

- frequency (if very frequent must suspect medication overuse)
- any specific warning features (see "Red flags")
- medications (if MOH suspected stop analgesics and caffeine; COCP in migraine)

Examination (mandatory if secondary headache suspected), including

- Visual acuity; visual fields to confrontation and fundi
- Blood pressure

Patients with acute worst ever headache should be referred to ED

Abbreviations: TTH - tension-type headache

MOH - medication-overuse headache

TN – trigeminal neuralgia

SUNCT - severe unilateral neuralgiform headache with conjunctival injection + tears

SUNA - severe unilateral neuralgiform headache with autonomic features

NDPH - New daily persistent headache

Qol - Quality of life

COCP – combined oral contraceptive pill PIFP - Persistent idiopathic facial pain

When to refer to a Specialist

(Consider referring to ED depending on presentation and waiting OPD time)

Diagnostic uncertainty, including unclassifiable, atypical headache

Diagnosis of any of the following:

- Chronic migraine (patients who have failed at least one preventative agent)
- Cluster headache
- SUNCT/SUNA>
- Persistent idiopathic facial pain
- Hemicrania continua/chronic paroxismal hemicranias
- Trigeminal neuralgia

Suspicion of a serious secondary headache (Red flags)

- Progressive headache, worsening over weeks or longer
- Headache triggered by coughing, exercise or sexual activity
- Headache associated with any of the following:
 - **postural change** (indicative of high or low intracranial pressure)
 - papilloedema
 - focal neurological deficit or seizures
 - rapid progression of unexplained cognitive/personality/ behavioral change
 - unexplained fever
 - weight loss or poor general condition

New headache:

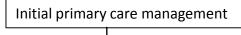
- Presenting as **thunderclap** (intense headache with "explosive"/abrupt onset)
- In a patient ≥ 50 years, check ESR/CRP and refer
- **New daily persistent headache** (and no prior history of headache)
- In a patient with risk factors for immunodeficiency or cancer
- In a patient with family history of glaucoma

Headache with atypical aura, especially

- prolonged (lasting> 1 hour) or including significant prolonged motor weakness
- new aura without headache in the absence of a prior history of migraine

Headache not responding satisfactory to management in primary care

Comorbid disorders requiring specialist management



No

Migraine Migraine with aura TTH Cluster headache Other Medication overuse Typically mild/moderate pain ≈ 1/3 of patients with Daily or near-daily (≥15 Affects M:F (3:1 ratio) Should be recognised in Recurrent moderate/severe pain d/month) without associated symptoms typically but not always: migraine Bouts last 6-12 weeks primary care, but may Typically 1-2 x year unilateral and/or pulsating Aura 5-60 minutes prior to Aggravation of a prior Not worse with activity require specialist lasting 4-72 hours untreated / with headache headache (usually Can occur in combination with Rarely chronic management associated with Typical migraine or TTH) migraine throughout year - nausea / vomiting visual (>90% of auras): Often worst early in the • Infrequent episodic TTH ≤ Very severe pain, often Trigeminal neuralgia Triggered unilateral sudden - photo- ± phonophobia blurring is not morning once/month at night Strictly unilateral - aggravated by routine diagnostic; and/or Great impact on QoL Frequent episodic TTH excruciating facial pain Brief, often serial physical activity, and disabling unilateral sensory Causally associated - attack-like episodes on 1-14 Lasts 15-180 min with regular use, over d/month. **freedom** from these symptoms Less common (commonly 30-60) >3 months, of: - lasting hours to few days; Marked agitation Carbamazepine; between attacks brainstem (vertigo, Triggered by alcohol tinnitus, diplopia, - Opioids/ Triptans > 10 - usually generalised (bilateral) Oxcarbazepine; Lamotrigine; Usually episodic ataxia); d/month - pressure or tightness, often Accompanied by highly Gabapentin Can be **chronic** (15% of cases): speech and/or Non-opioids > 15 spreading to the neck characteristic & strictly headache ≥15 d/month, of language d/month Chronic TTH ipsilateral_autonomic SUNCT / SUNA Similar to TN (but frontal) which ≥8 d migrainous Rare - occurs on ≥15 days/month symptoms: often complicated by: motor weakness Usual acute migraine - may be daily and unremitting - red and watering eye; Autonomic ocular symptoms depression and/or anxiety therapy ineffective - may be associated with mild - rhinorrhea / blocked - low back and/or neck pain Full recovery after attacks Headache tends to Lamotrigine nausea nostril - medication overuse worsen after analgesia +/- ptosis withdraw, but in most Ice pick / stabbing cases improves within 2 Sudden brief head pains months Prompt referral at first Various locations Acute attack (Restrict simple analgesia to max 6 d/month) presentation for specialist and Chr Paroxysmal Hemicrania review + MRI! Prefer soluble analgesic, early in the attack, at an adequate dose Unilateral periorbital If infrequent, ≤2 days/week Simple analgesia (high dose aspirin, paracetamol, NSAID) ± Early intervention Autonomic (red eye, Avoid oral triptans and can be successfully treated antiemetic, or if ineffective essential lacrimation, nasal analgesics with simple analgesia. Long-term prognosis Triptans (oral, nasal spray, sc injection) or congestion, ptosis) If frequency > 2 d/week usually very good Simple analgesia + triptan ± prokinetic antiemetic 15-30 minutes; multiple/ day Acutely increased risk for medication Avoid COCP if any aura / severe migraine Nasal or sc triptan and use, consider prophylactic Withdrawal: No triptan DURING aura 100% Oxygen at ≥ Hemicrania continua therapy: Abruptly 12L/min until response, Unilateral "side-locked" 1st line: Tapering over a period constant headache >3 /12 or for ≥ 15 min Amitriptyline 10-100 mg nocte of 2-4 weeks +/- autonomic features Specialist care Prophylactic therapy (Restrict simple analgesia to max 6 d/month) Replacing overused Transition therapies Restlessness Nortriptyline (same dose) drug(s) with Naproxen - Prednisolone 500 mg bd for max 3-4 less SE / less efficacy Start any drug at a low dose and increase if no major SE; trial for ≥ Indomethacin +PPI - Occipital nerve block • 2nd line: 8-12 weeks; tapered withdraw after ≥ 6 months of good control weeks Maintenance Mirtazepine 15-30 mg od • Propranolol LA 80-160 mg od prophylaxis PIFP • 3rd line: Headache prophylaxis Amitriptyline 10-100 mg at night / Nortriptyline 10-100 mg Dull, daily persistent > 3/12 - Verapamil (ECG) Venlafaxine 75-150 mg od against antecedent Topiramate 25mg od 2/52, titrate gradually to 50mg bd Poorly localized facial and / - Lithium carbonate headache may be Candesartan 8-16mg od or oral pain (levels) introduced if intermittent Sodium valproate 600-1500 mg/d (! not in women of child-- Topiramate (?efficacy) Often psychiatric primary headache features comorbidity bearing potential and pregnancy; Annual acknowledgment) persist or emerge • Flunarizine 5-10 mg od Amitriptyline, Gabapentin, Pregabalin