

Disclosures

Consulting/advisory board

Allergan, Atheneum, Autonomic Technologies, Cannovex BV, Chordate Medical AB, Eli Lilly, Hormosan Pharma, Lundbeck, Novartis, Sanofi and Teva

Honoraria for speaking

Allergan, Autonomic Technologies, Chordate Medical AB, Novartis and Teva

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Primary vs secondary headache

Primary

- 1. Migraine
- 2. Tension-type headache
- 3. Trigeminal autonomic cephalalgias
 - 3.1 Cluster headache
 - 3.2 Paroxsymal hemicrania
 - 3.3 SUNCT/SUNA
 - 3.4 Hemicrania continua
 - 3.5 Probable trigeminal autonomic cephalalgia

4. Other Primary Headaches

- 4.1 Primary cough headache
- 4.2 Primary exercise headache
- 4.3 Primary headache associated with sexual activity
- 4.4 Primary thunderclap headache
- 4.5 Cold stimulus headache
- 4.6 External pressure headache
- 4.7 Primary stabbing headache
- 4.8 Nummular headache
- 4.9 Hypnic headache
- 4.10 New daily persistent headache (NDPH)

Secondary

Trauma or injury to the head

Cranial or cervical vascular

Intracranial non-vascular

Substances

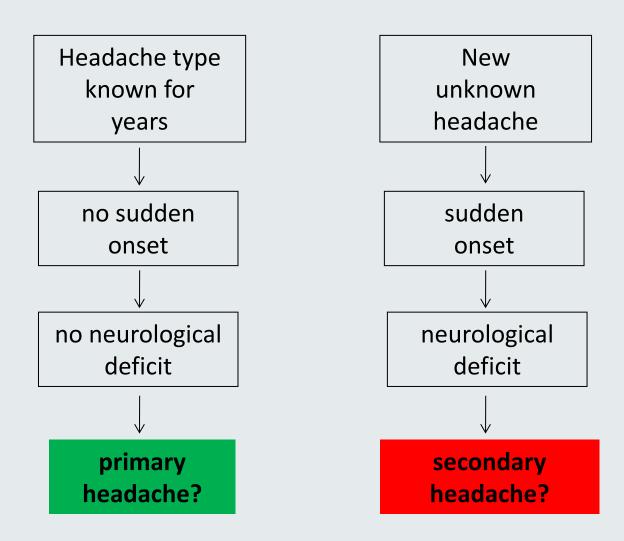
Infection

Homeostasis

Disorder head, neck, eyes...

Psychiatric

Primary vs secondary headache



Primary vs secondary headache

Systemic symptoms (fever, weight loss)

Precipitated by Valsalva, exertion, sex

Altered consciousness

Age of onset > 50 years

Papilledema

Positional component

Primary vs secondary headache – red flags (SNOOP10 list)

	Sign or symptom	Related secondary headaches (most relevant ICHD-3b categories)
1	Systemic symptoms including fever	Headache attributed to infection or nonvascular intracranial disorders, carcinoid or pheochromocytoma
2	Neoplasm in history	Neoplasms of the brain; metastasis
3	Neurologic deficit or dysfunction (including decreased consciousness)	Headaches attributed to vascular, nonvascular intracranial disorders; brain abscess and other infections
4	Onset of headache is sudden or abrupt	Subarachnoid hemorrhage and other headaches attributed to cranial or cervical vascular disorders
5	Older age (after 50 years)	Giant cell arteritis and other headache attributed to cranial or cervical vascular disorders; neoplasms and other nonvascular intracranial disorders
6	Pattern change or recent onset of headache	Neoplasms, headaches attributed to vascular, nonvascular intracranial disorders
7	Positional headache	Intracranial hypertension or hypotension
8	Precipitated by sneezing, coughing, or exercise	Posterior fossa malformations; Chiari malformation
9	Papilledema	Neoplasms and other nonvascular intracranial disorders; intracranial hypertension
10	Progressive headache and atypical presentations	Neoplasms and other nonvascular intracranial disorders
11	Pregnancy or puerperium	Headaches attributed to cranial or cervical vascular disorders; postdural puncture headache; hypertension-related disorders (e.g., preeclampsia); cerebral sinus thrombosis; hypothyroidism; anemia; diabetes
12	Painful eye with autonomic features	Pathology in posterior fossa, pituitary region, or cavernous sinus; Tolosa-Hunt syndrome; ophthalmic causes
13	Posttraumatic onset of headache	Acute and chronic posttraumatic headache; subdural hematoma and other headache attributed to vascular disorders
14	Pathology of the immune system such as HIV	Opportunistic infections
15	Painkiller overuse or new drug at onset of headache	Medication overuse headache; drug incompatibility

Green flags?

The current headache has already been present in childhood

The headache occurs in temporal relationship with the menstrual cycle

The patient has headache-free days

Close family members have the same headache phenotype

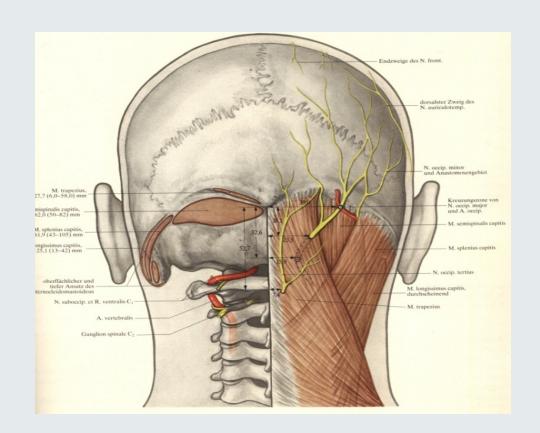
Headache occurred or stopped more than one week ago

Who should get an MRI?

- History of migraine and normal examination (n=897; 4 abnormal)
 - three tumours
 - one AVM
 - BUT
- two of these (tumour and AVM) had seizures
- one papilloma choroid plexus
- one glioblastoma

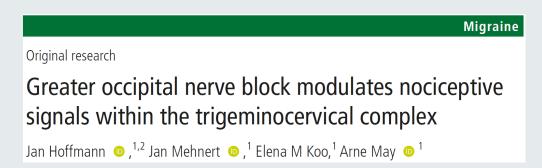
- Non-migraine patients with normal examinations (n=1825; 2.4% abnormal)
 - 21 tumours
 - 6 AVM
 - 3 aneurysms
 - 8 hydrocephalus

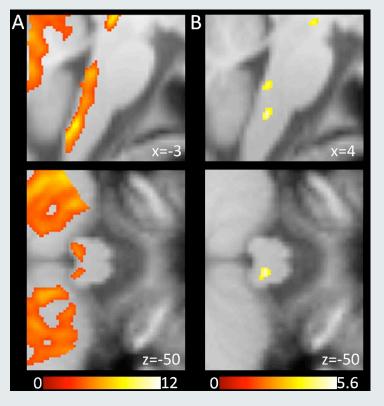
Greater occipital nerve block (GON-block)



local anaesthetic + corticosteroid

(e.g. 4 ml lidocaine 1% + 4 mg dexamethasone)





Prevalence primary headaches & orofacial pain

Cluster headache 3%

Confirmed hemicrania continua 21%

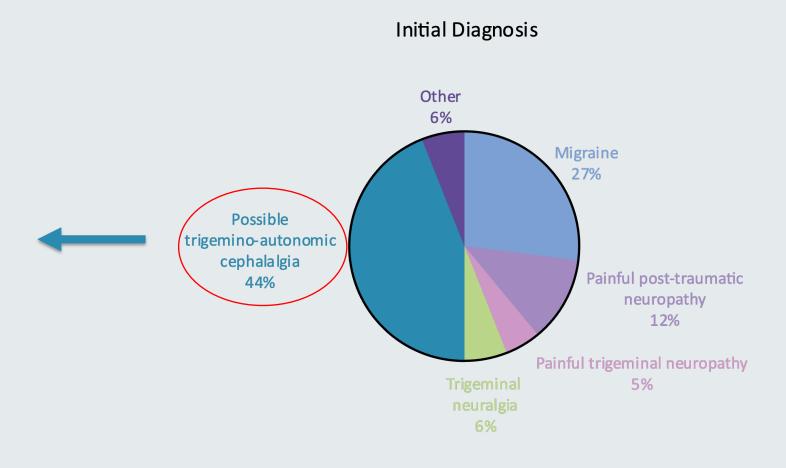
Confirmed paroxysmal hemicrania 2%

Possible hemicrania continua 34%

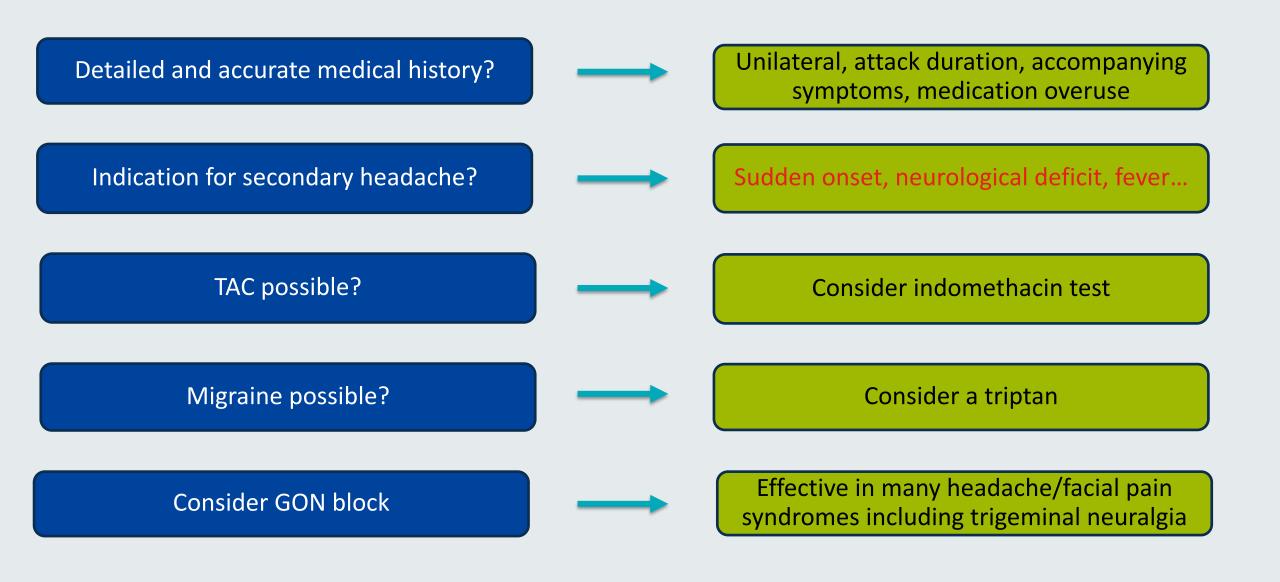
Possible paroxysmal hemicrania 3%

Chronic migraine 27%

SUNCT/SUNA 10%



What to do in case of diagnostic uncertainty?





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