



To a man with a hammer Everything is a nail



All headache is migraine

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INTERNATIONA HEADACHE SOCIETY

www.cephalalgia.org

The International Classification of Headache Disorders

2nd Edition



Classifying headache

IHS Headache classification Primary Secondary

- Migraine
- ☐ Tension type
- □ Cluster

- Traumatic
- □ Vascular
- □ Non-vascular
- □ Substance induced
- □ Infection
- □ Metabolic
- ☐ Facial structures

What do people think when they present with headache?

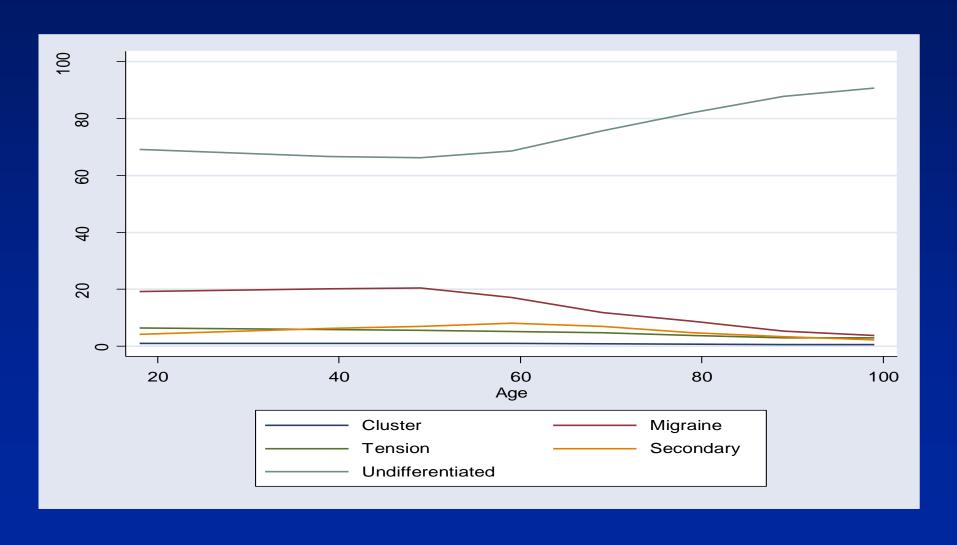
☐ **I need glasses** (<1% headache due to undiagnosed refractive errors)

Its my blood pressure

□ I have a tumour

What do GPs think patients have?

Kernick 2009



What do patients have when they present to GP with headache?

- ☐ 80% migraine
- ☐ 15% Tension type headache
- □ 5% secondary headache

Is it a tumour?

Red Flags

Probability of significant pathology >1%. Need urgent investigation

Orange Flags

Headache presentations where probability is likely to be 0.1% and 1%. Need careful monitoring

Yellow Flags

Probability of underlying pathology is <0.1% but above background.

Needs appropriate management and follow up there are no green flags

Headache and tumour

□ Headache prevalence with tumour 70%+

☐ Headache at presentation 50%

☐ Headache alone at presentation 10%

(Iverson 1987)

Population 100,000 adults each year:

□ 220,000 population headaches

☐ 4000 GP headaches

□ 1 tumour will present as isolated headache

Risk of brain tumour and headache presenting to primary care (Kernick 2008) Headache overall – 0.09% Non headache - 0.02%

	Risk %	
	Undifferentiated headache	Primary headache
All ages	0.15%	0.045%

Risk of brain tumour and headache presenting to primary care (Kernick 2008)

	Risk %	
	Undifferentiated headache	
Overall	0.15%	
Under 50	0.08%	
Over 50	0.28%	

Scan when advantages over weigh disadvantages The advantages:

Better management improved quantity and quality of life if positive

□ Allay anxiety - reassurance if negative

The disadvantages

- □ Resource implications
- Exposure radiation with CAT scan
- Exposes incidental abnormalities

Population 0.6- 6% average 2.7% (Morris 2009)

GP requests 10% (Thomas 2010)

Luftwaffe pilots (n-2370) Weber 2006

☐ 93% normal (25% variations of norm)

□ 6.7% abnormalities

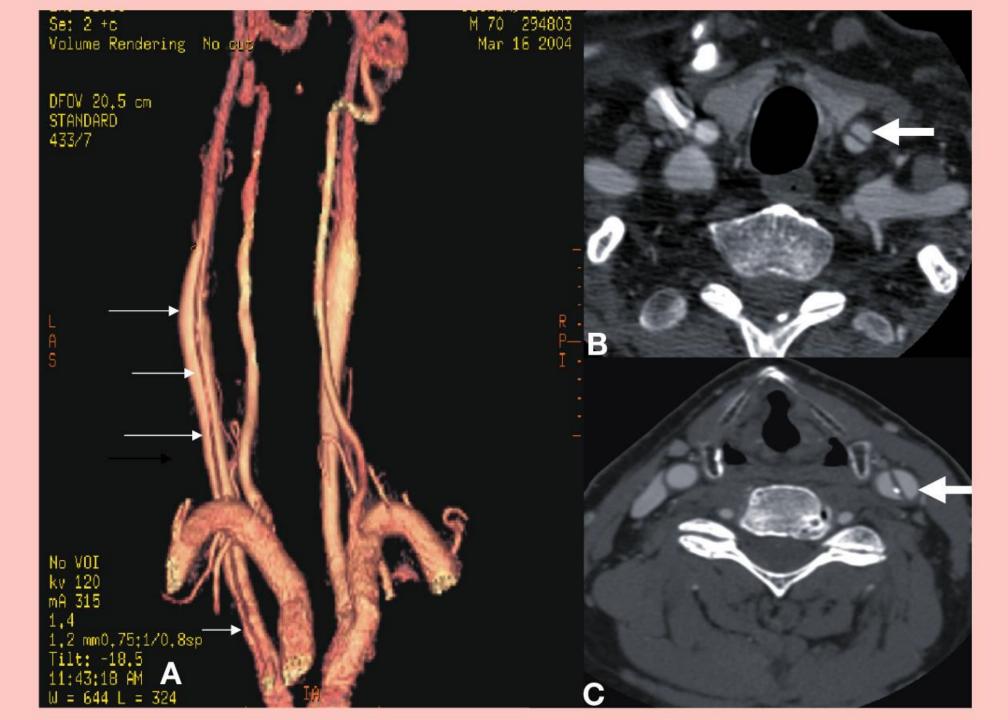
□ 56 cysts; 13 vascular abnormalities;4
 adenomas; 4 tumours

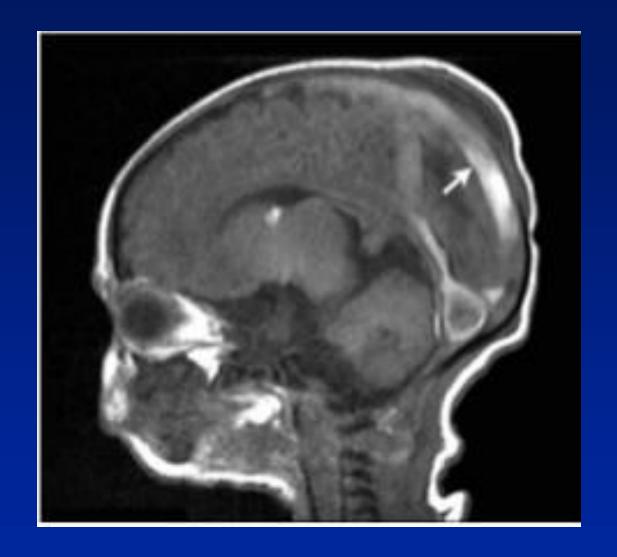
In reality the inputs are complex

- Limited poor quality evidence base
- □ Expert opinion
- Medico-legal case law
- Patient-doctor characteristics and approach to uncertainty
- □ Organisational factors

Do something now

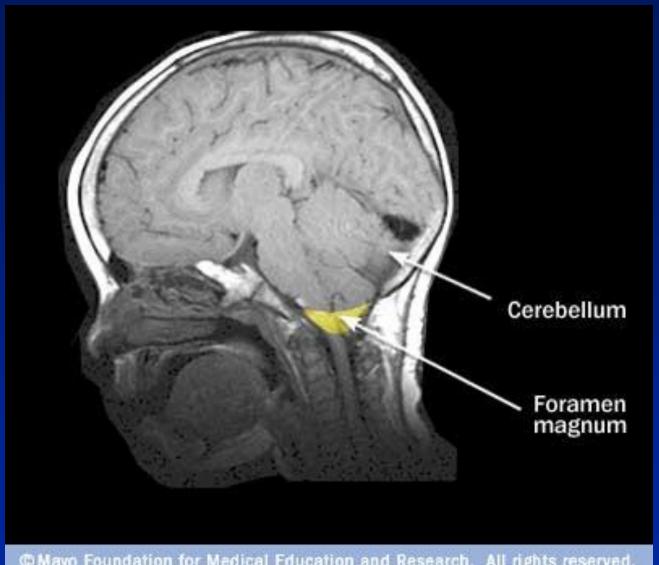
- □ Meningitis
- □ Thunderclap headache
- □ Temporal arteritis
- □ Carbon monoxide
- □ Malignant hypertension



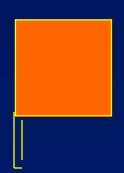


Do something soon

- ☐ Headache with abnormal neurological examination
- ☐ Headache with recent history of fits
- □ Headache with orgasm (first presentation now)
- ☐ History of cancer elsewhere or or HIV
- □ Exercise induced headache (not pre orgasmic)
- Precipitated by Valsalva manoeuvre, cough



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Keep close eye and think carefully

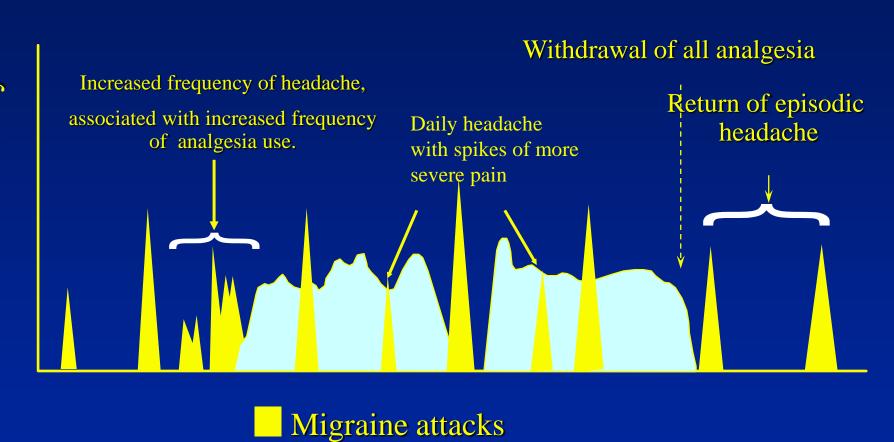
- □ Headache with significant change in pattern
- Awakes from sleep
- □ New headache over 50 years
- □ New Cluster headache
- Worse on standing
- ☐ If a primary headache diagnosis has not emerged in an isolated headache after 6-8 weeks

Diagnose a primary headache

☐ Exclude medication overuse headache

□ Diagnose migraine, Tension type or Cluster

Medication overuse headache



Frequent 'daily' headaches

Simple Diagnostic aid

☐ Migraine — *have to lie down*

☐ Tension headache — can keep going

☐ Cluster Headache – have to bang head



Formal Migraine

☐ 4-72 hours

☐ Two of : unilateral, pulsating, moderate or severe pain, aggregation by physical activity.

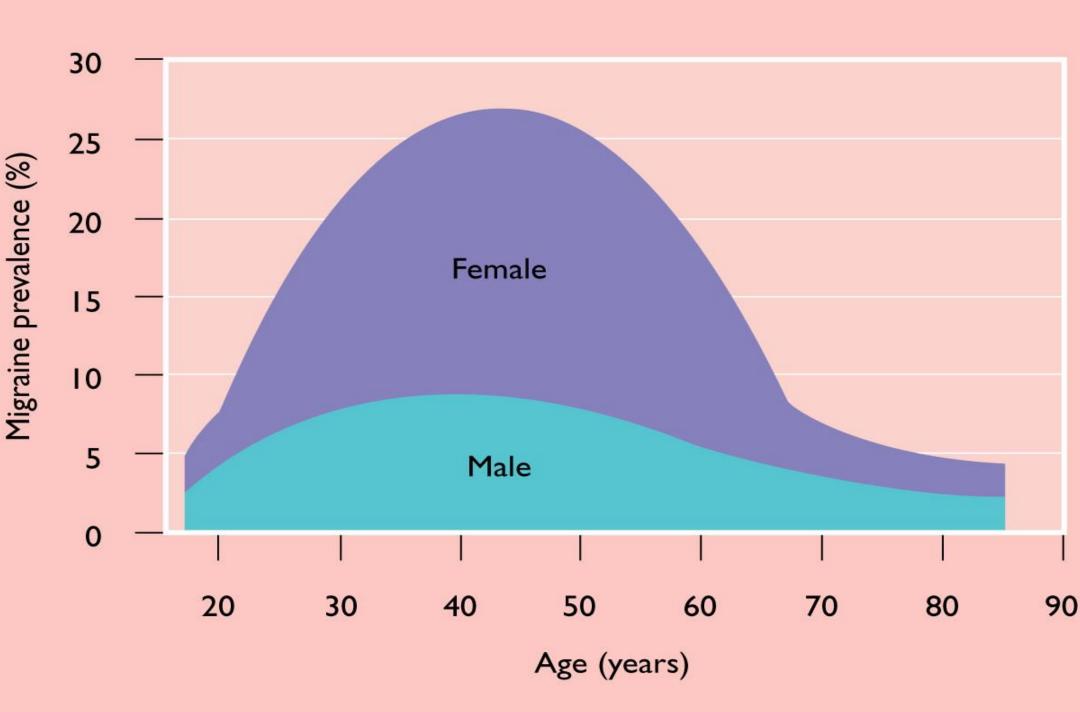
☐ At least one of: nausea/vomiting, photophobia, phonophobia.

Other diagnostic pointers for migraine

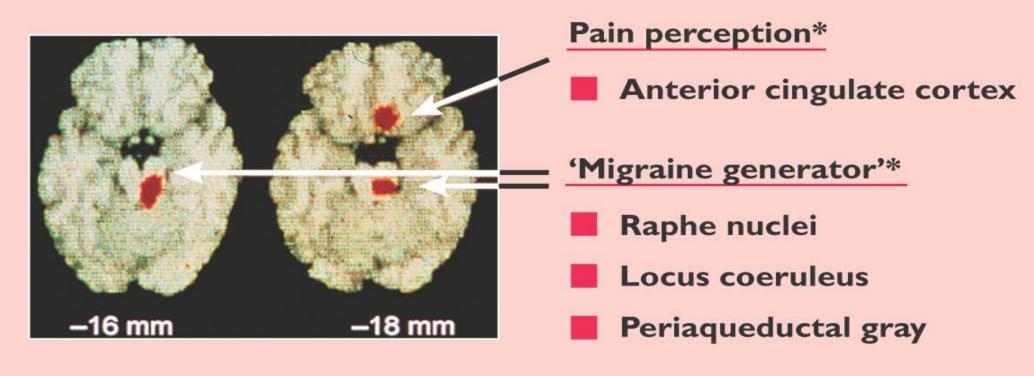
□ I feel nauseated

☐ I don't like light or sound

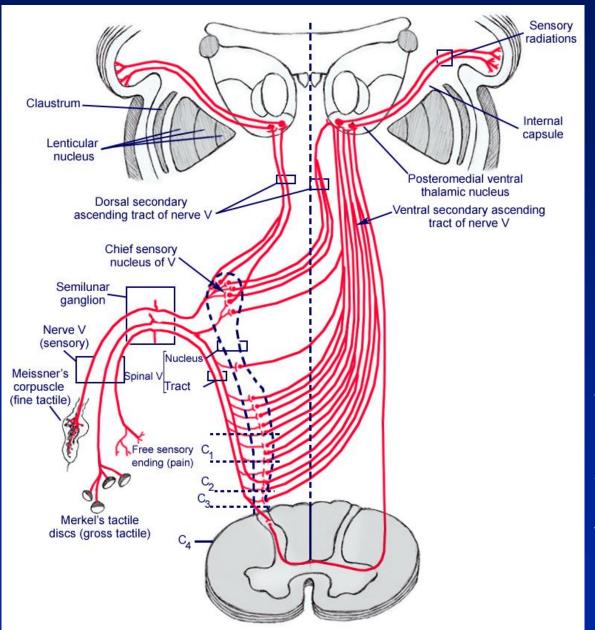
■ Movement makes things worse



Dysfunction of brain stem pain and vascular control centers



^{*}Areas of red indicate cerebral blood flow increases (p < 0.001)



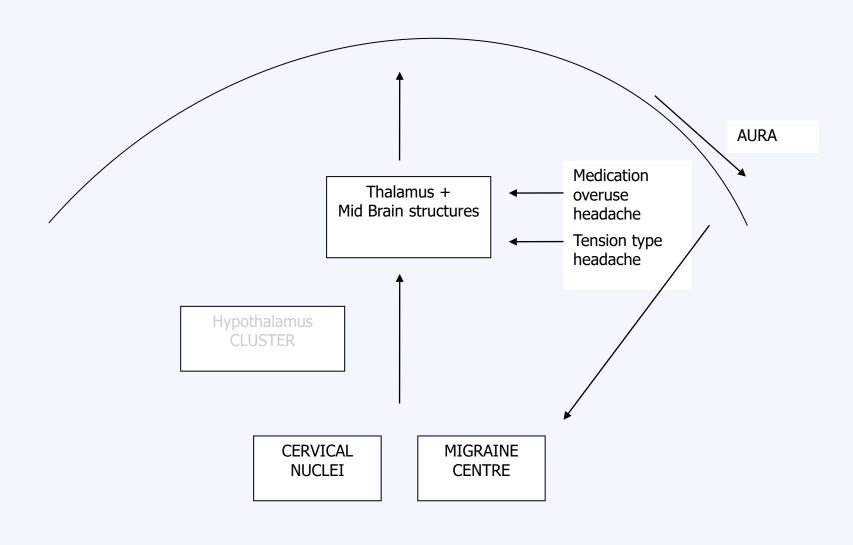
Activation anywhere in the system can lead to output in any other part of the system and vici versa

Formal Tension Type

□ 30 minutes – 7 days.

2 of : bilateral, non-pulsating, mild/moderate, not aggravated by activity.

No nausea, vomiting, photophobia, phonophobia.



Headache model

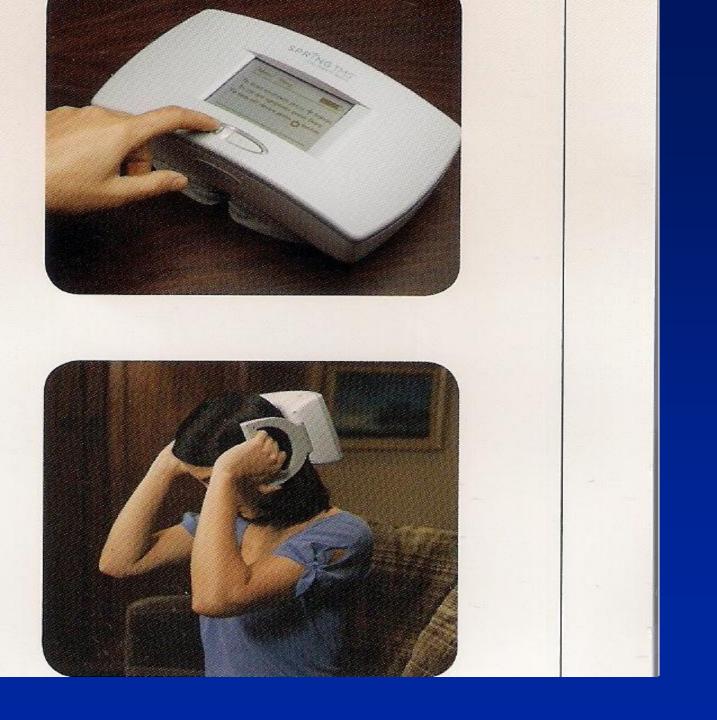
Migraine treatment Acute

- Paracetamol/Asp/Domperidone
- □ Rectal NSAI/Domperidone
- □ Triptan



The Triptans

- ☐ Tablets, melts, nasal spray, injection.
- ☐ Side effects
- ☐ Failure response is not a class effect
- □ Treat onset of pain
- ☐ Over 65 years?



Migraine prevention

□ Beta blocker

Amitriptyline

□ Topiramate

GPwSI?

□ Not secondary headache exception medication overuse headache

- Unsure of diagnosis if red flag excluded
- ☐ Primary headache difficult to treat
- □ ? New cluster

Five key questions

- How many types of headache do you get?
- Is there a family history of troublesome headache?
- □ What pain killers are you taking?
- What is the impact of your headache?
- ☐ What do you think is causing it?

Two key examinations

□ Blood pressure

□ Fundoscopy

One key delaying tactic

☐ Go away and keep a diary

□ Make a double appointment next time