HEADACHE AND MIGRAINE

Keiran Tuck MBBS

DISCLOSURES AND CONFLICTS OF INTEREST

• nothing

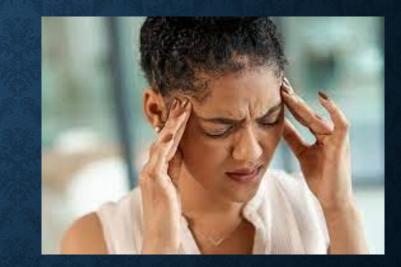
RED FLAGS FOR SECONDARY HEADACHE

- Neurologic deficits
- New headache in elderly
- Positional component
- Fever/meningism
- Recent head trauma
- Pregnancy
- Get head imaging/refer to ED



EPIDEMIOLOGY OF PRIMARY HEADACHE

- Lifetime prevalence is 66-96%
 - Active prevalence within last year is 40%
- 3:1 female predominance



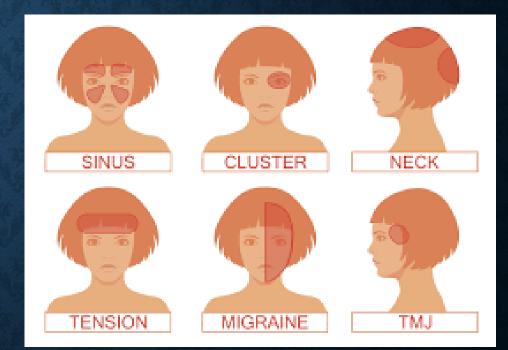
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MAJOR TYPES OF PRIMARY HEADACHE

- Common (90% of all headaches)
 - Migraine
 - Tension
- Rare

• ...

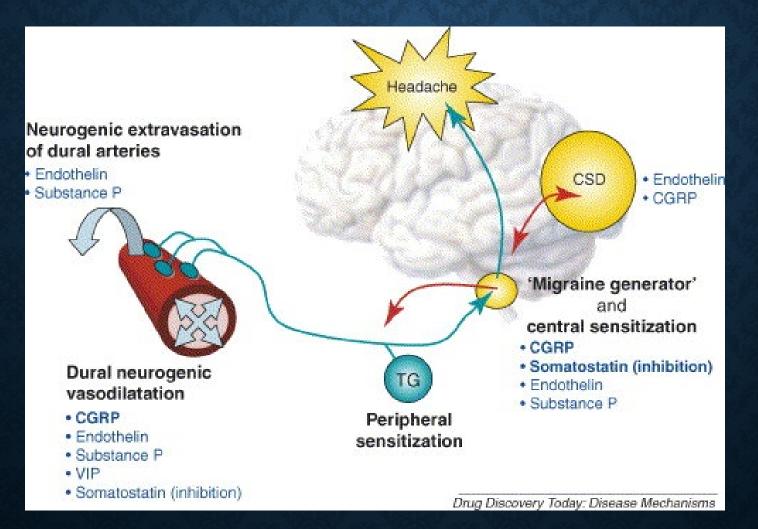
- Cluster
- Trigeminal Autonomic Cephalgias (includes cluster)
- Headache associated with sexual activity
- Hypnic headache
- Occipital neuralgia



MIGRAINE

- Classically unilateral, throbbing accompanied by nausea, photophobia
- Numerous triggers reported but difficult to confirm
 - Estrogen
 - Poor sleep
 - Caffeine
 - foods, environmental allergens
- With or without aura (or just aura)
- Genetic component

MIGRAINE



EPIDEMIOLOGY OF MIGRAINE

- ~12% of population episodic (<14 per month)
 - 90% of migraine sufferers report moderate to severe pain
 - 75% reporting impaired function
 - 33% require bed rest during an attack.
 - accounts for 20% of work absences

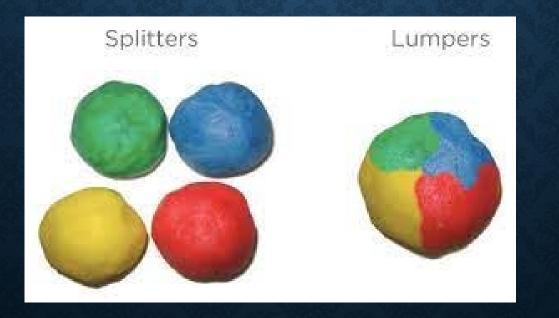
EPIDEMIOLOGY OF MIGRAINE

- ~ 3% of population chronic (>14 per month)
 - "associated with higher disability/impact, medical and psychiatric comorbidities, health care resource use, direct and indirect costs, lower socioeconomic status, and health-related quality of life."
- 1 in 4 migraineurs are candidates for preventive therapy

TENSION

• Bilateral, non-throbbing, without other features

- Rule out red flags
- As most chronic headaches are migraine or tension, management strategy is similar for all patients



Non-prescription

- Lifestyle
 - Exercise, healthy diet, sleep hygiene,
- MSK interventions
 - Massage, acupuncture, physiotherapy
- OTC supplements
 - Magnesium 400mg daily
 - Riboflavin (B2) 400mg daily



• Abortive

- Acetaminophen
- NSAIDs
 - Ibuprofen
 - Ketorolac
 - Diclofenac (Cambia)
- Triptans (any)
- Anti-emetics
 - Metoclopramide
 - Ondansetron
- Prednisone/dexamethasone



• Prophylactic

- Amitriptyline/nortriptyline (10-100mg qhs)
- Propranolol (10mg BID 80mg TID)
- Topiramate (25mg daily 100mg BID)
- Gabapentin (100mg qhs 900mg TID)
- Many Many More Tablets
 - Valproate, verapamil, ACE inhibitors, SNRI (venlafaxine/duloxetine), memantine,
 - Consider progesterone only OCP
- Cranial nerve stimulators limited evidence
- CBT therapy

• Next steps

- Botulinum toxin (Botox)
- CGRP inhibitors (Aimovig, Emgality, Ajovy, Qulipta)
 - Not covered by Pharmacare
 - Most private insurance requires 14+ headaches per month and failure of 2 prophylactic medication classes

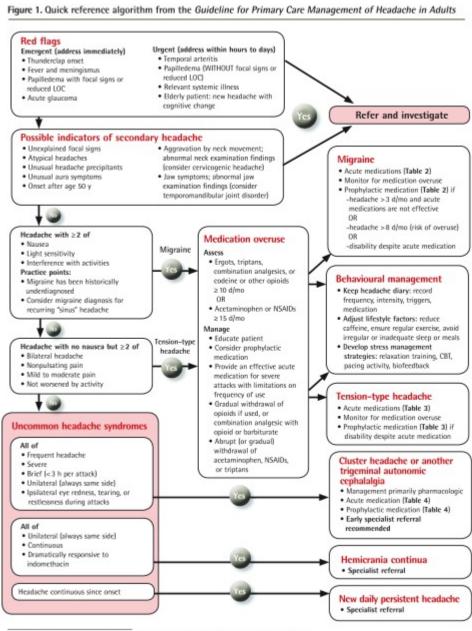


healthline

Botox for Migraine Injection Sites

SUMMARY

- Headaches and Migraines are very common
- Rule out red flags
- Lifestyle management
- Abortive therapy with OTC meds and triptans
- Preventive therapy with amitriptyline, propranolol and/or topiramate
- Then consider botulinum toxin or CGRP inhibitors



CBT-cognitive behavioural therapy, LOC-level of consciousness, NSAID-nonsteroidal anti-inflammatory drug. Adapted from Toward Optimized Practice.¹⁰

- Can Fam Physician. 2015 Aug; 61(8): 670–679.
- PMCID: PMC4541429

QUESTIONS/DISCUSSION

