

Serious HA Cheat Sheet by Siffi (Siffi) via cheatography.com/122609/cs/22843/

Brain Turnours			
Triad	Other S&S		
Headache	Nausea		
Vomiting	Worse first thing in the morning		
Convulsions	Valsalva movements make it worse		
	new onset/change in HA		
	Seizures		
	Confusion		
	Dysphagia		
	Motor Weakness		
	Personality Changes		
	Memory Loss		

Triad in children

Dizziness

Headache

Vomiting

HEADSMART



Temporal Arteritis

S&S

Persistant unilateral throbbing over temporal region + scalp tenderness

Associated with PMR - look for bilateral inflammatory signs over shoulder/hip area

>50y

Severe burning - worse in morning & constant

Malaise, vague aches, pains, weight loss

ESR/CRP elevated

Mangement

Urgent referral (same day) to GP - risk of blindness

Mild Traumatic Brain Injury

Common in teens and young adults

Athletes more at risk - football, boxing, hockey, soccer, MMA, military personnel, victims of domestic abuse, motor accidents

Concussion

- One type of brain injury
- Subconcussive injury = traumatic impact to the head that does not result in immediate clinical symptoms
- Simple concussion = progressively resolves after 7-10 days without complications
- Complex concussion = persistent symptoms and Hx of loss of consciousness >1 minute, recurrence/exacerbation on exertion, prolonged impairment of cognitive function, seizure

Mechanical insult - complex cascade of biochemical dysfunction - mitrochondrial dysfunction - disrupts brain's neuronal homeostasis

Presentation

- Headache
- Confusion, light-headedness/dizziness, visual disturbances, tinnitus, lethargy, insomnia, photophobia, irritability, mood changes, cognitive difficulties
- Impaired memory & leaning, reduced planning, inability to switch mental tasks, attention deficits, slower information processing, slowed reaction times
- Symptoms worse with physical exertion/stress

On field assessment of injured athlete = ruling out emergent situations

Palpation of head, neck, face, nose and TMJ for f#/injuries Move fingers and toes - upper and lower sensation, strength and function



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Red flags

- GCS <15
- Deteriorating mental status
- Potential spinal injury
- Progressive neurological signs/symptoms
- Persistent vomiting
- Suspected skull f#
- Seizures
- Coagulopathy
- Prior neurosurgery
- Multiple injuries

Glasgow Coma Scale (GCS)

		Score
Eye opening	spontaneously	4
	to speech	3
	to pain	2
	none	1
Verbal response	orientated	5
	confused	4
	inappropriate	3
	incomprehensible	2
	none	1
Motor response	obeys commands	6
	localises to pain	5
	withdraws from pain	4
	flexion to pain	3
	extension to pain	2
	none	1
aximum score		15

- 15 point scale

Questions (Maddocks)

What ground/field/rink are we playing at?

What team are we playing today

What half/quarter/period is it?

How far into the game is it?

Which side scored last?

What team did we play last game?

Did we win last game?

- Sideline for evaluation if suspected concussion (motor, sensory, reflex tests, CN evaluation, coordination and balance assessment)
- Difficulty with these questions = out and not allowed to play
- SCAT3
- Ask about concussion S&S

What to do next

Once concussed patient is out of the game, an attendant should stay with them for 24 hours post concussion

Attendant should observe patient every 4 hours

Should be alert for: worsening ha, irritability, persistent nausea/vomiting, difficulting speaking, swallowing, tinnitus, SOB, light headiness, numbness, confusion, memory loss, clear CSF discharge from nose/ears, unequal pupils, fever, visual disturbances, seizures, LOC, easily aroused

Drink only clear fluids for 8-12 hours

No alcohol

Diet should begin light and progress to normal over 24 hours

Sedatives, sleeping pills, aspirin and ibuprofen should be avoided

Avoid physical and mental activity for first 24 hours - school, work, texting, video games, driving, operation of dangerous tools or heavy equipment

Should sleep with head elevated for 24 hours

Follow up assessment - did you hit your head? Lose conciousness? experience amnesia, loss of memory, disorientation/confusion? Dizziness or unsteadiness? Memory problems/forgetfulness? Concentration/attention problems?

Imaging

May be used to rule out Cx injury

Canadian CT head rule - witnessed loss of conciousness,amnesia/disorietnation

MRI for: GCS <15 at 2 hours post injury

>2 episodes of vomiting

>65 or older

Suspected skull f# (haemotympanum, raccoon eyes, CSF otorrhoea/rhinorrhoea, battles sign (bruising over mastoid)

Pre injury amnesia >30 mins

Dangerous mechanism of injury - struck by motor vehicle, MVA ejection, fall from >3 feet



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Management

- Recovery period = 100 days
- Some patients have post concussion syndrome within 1-2 weeks up to 3 months
- Delayed recovery factors = >4 symptoms

HA >60 hours

Pre-injury HA

Self reported fatigue/foginess

prior mTBI

Hx of PTSD, ADHD, learning disability

advancing age

no and proximity of concussions

Duration of concussion (>10 days)

prolonged loss of consciousness (>1 minute)

amnesia

convulsions

co-morbidities

Medication

- Allowed to play when:

Complete clearing of symptoms at rest - no pain meds No symptoms after provocative testing - cycling, running, cardio exercises

Full return of cognitive ability, memory and concentration

- Can do light aerobic activity after symptoms resolve if it does not excaberate symptoms then progressive more demanding activity should be considered (70%)
- Multiple concussed patients increased risk of Alzheimers, ALS , Suicide, Parkinsons and Dementia
- Assess Paraspinals suboccipitals
- Patients who worsen/do not show improvement after 3-5 days should be referred to a specialist
- EPA/DHA/Magnesium

Thunderclap HA					
S&S	Causes	Management			
Sudden, abrupt Headache - Reaches peak @ 1 hour	SAH	REFER IMMEDI- ATELY TO HOSPITAL			
"Worse Headache of their life"	Intracranial haematoma	DON'T LET THEM DRIVE			
"Feels as though they are being hit on the back of the head"	Cerebral venous sinus thrombosis				
Very Different type of Headache	Cervical Arter	ry dissection			

Thunderclap HA (cont)

Ischaemic Stroke

Meningitis

S&S

Severe Headache

Neck Stiffness

High Fever

Altered Mental State

Photo/Phonophobia

Management

Refer immediately to hospital - dial 999

CRP, FBC, blood cultures, lx puncture

Serious Signs of HA in Children

Present in the morning

Wakes Child at night

No PMHx

No Family Hx

Associated Poor health

Associated Neuro symptoms

Presents unilaterally

