## **Common Cerebral Histories**

**Exploding symptom** 

Relevant system reviews

Presenting



Clues to differential

| complaint |  |   | C             | Differentials                                  |   |
|-----------|--|---|---------------|--|---|
|           |  |   | Grouping      | Differentials                                  |   |
| Headache  | Pain   | General   | Primary       | Tension headache                               | Bilateral tight band sensation  |
|           | Site   | Fever, skin rashes/bruising   |               |  | •Recurrent  |
|           | Onset Character  | Neurological  |               |  | Occurs late in day     Association with stress                              |
|           | Character Padiation  | Neurological  • General: fits/falls/LOC, dizziness, vision/hearing, memory loss, neck stiffness/photophobia  • Motor: weakness/wasting, incontinence  • Sensory: pain, numbness, tingling |               | Clarate a base de aba                          | Association with stress   |
|           | Radiation  |   |               | Cluster headache                               | •Short painful attacks around one eye                                       |
|           | Associated symptoms  |   |               |  | •Last between 30 mins – 3 hours   |
|           | Exacerbating/relieving factors Severity  Red flags  Sxiffness/photo Motor: weakn incontinence Sensory: pain, |   |               |  | Occur once/twice a day for 1-3months     Alay had last matter and flushing. |
|           |  |   |               | A 41 1   | May be lacrimation and flushing   |
|           |  |   |               | Migraine                                       | Unilateral pulsating headache in trigeminal                                 |
|           |  |   |               |  | nerve distribution  •Last between few hours – days                          |
|           |  |   |               |  | may be aura (usually visual)  |
|           |  |   |               |  | Need to lie down in dark room   |
|           |  |   |               |  | (photophobia)   |
|           |  |   |               | Trigeminal                                     | •2 second paroxysms of stabbing pain in                                     |
|           |  |   |               | neuralgia                                      | untilateral trigeminal nerve distribution                                   |
|           |  |   |               | near argia                                     | •Face screws up with pain   |
|           |  |   | Secondary -   | Meningitis                                     | Photophobia   |
|           |  |   | intracranial  | Wichingitis                                    | Neck stiffness  |
|           |  |   | meracramar    |  | •Systemic symptoms e.g. fever, non-   |
|           |  |   |               |  | blanching rash  |
|           |  |   |               | Temporal arteritis                             | Unilateral throbbing pain   |
|           |  |   |               | remporar arcentio                              | Scalp tenderness and jaw claudication                                       |
|           |  |   |               |  | •>55 years  |
|           |  |   |               |  | May be visual problems  |
|           |  |   |               | Subarachnoid                                   | Very sudden onset severe headache   |
|           |  |   |               | haemorrhage                                    | •"like some on hit me with a brick over the                                 |
|           |  |   |               |  | head"   |
|           |  |   |               |  | Meningismus   |
|           |  |   |               | Raised intracranial                            | Worse in morning and with coughing and                                      |
|           |  |   |               | pressure (e.g.                                 | bending   |
|           |  |   |               | tumour, benign                                 | Vomiting & reduced GCS  |
|           |  |   |               | intracranial                                   | •May be neurological symptoms & seizures i                                  |
|           |  |   |               | hypertension)                                  | tumour  |
|           |  |   | Secondary -   | Glaucoma                                       | Pain around one eye   |
|           |  |   | extracranial  |  | •Swollen red eye  |
|           |  |   |               |  | Visual blurring and halos   |
|           |  |   |               | Sinusitis                                      | <ul> <li>Facial pain exacerbated by leaning head</li> </ul>                 |
|           |  |   |               |  | forward   |
|           |  |   |               |  | Rhinorrhoea   |
|           |  |   | Other         | Intracranial venous th                         | nrombosis   |
|           |  |   | differentials | Intracranial haemorrh                          | nages (intracerebral, subarachnoid, subdural)                               |
|           |  |   |               | Infections (abscess, encephalitis, meningitis) |   |
|           |  |   |               | Malignant hypertensi                           |   |
|           |  |   |               | Hypoxia/hypercapnia                            |   |
|           |  |   |               | Viraemia                                       |   |
|           |  |   |               | Cervical spondylosis                           |   |
|           |  |   |               | Pre-eclampsia                                  |   |
|           |  |   |               | Drugs ( e.g. nitrates, I                       | PPI, caffeine, analgesia overuse, hormones)                                 |
|           | T == .   | Т   | T =           | T  | 1   |
| Vertigo   | Timing   | inuous  ENT  • Ear: hearing loss, tinnitus, otalgia  • Nose: rhinorrhoea, epistaxis • Throat: saw throat,   | Peripheral    | Benign positional                              | Attacks of sudden rotational vertigo  |
|           | •When started  |   | (vestibular)  | vertigo  | •Evoked by head turning   |
|           | •Acute/ gradual onset  |   |               |  | •Last ~ 30 seconds  |
|           | •Duration  |   |               | Vestibular neuritis                            | Often preceded by URTI  |
|           | • Progression  |   |               | (e.g. herpes virus)                            | Sudden rotational vertigo and vomiting                                      |
|           | •Intermittent or continuous  |   |               |  | •Lasts several days but imbalance may persi                                 |
|           |  |   |               |  | May re-occur several times per year   |
|           | Background to attacks  |   |               | Viral labrinthitis                             | Often preceded by URTI  |
|           | e.g. had before, frequency,  | odynophagia   |               |  | <ul> <li>Severe vertigo and hearing disturbance</li> </ul>                  |
|           | impact on life   |   |               |  | May be tinnitus, otalgia, N&V, fever  |
|           |  | Cardiorespiratory   |               | Meniere's disease                              | •TRIAD: vertigo + tinnitus + hearing loss                                   |
|           |  | I ( bost pain palpitations  | •             | i i  | 1 1 1   |

Differential diagnoses

| Fit/Fall/<br>Syncope | Attack • Before: warning, circumstance • During: duration, LOC, movements (floppy/stiff/jerking), incontinence/bite tongue, complexion (GET CORROBORATION) • After: amnesia, muscle pain, confusion/sleepiness, injuries from fall  Background to attacks e.g. had before, frequency, impact on life | General Fever  Cardiorespiratory Chest pain, palpitations, SOB/wheeze, cough, sputum, leg swelling  Neurological  • General: fits/falls/LOC, headache, dizziness, vision/hearing, memory loss, neck stiffness/photophobia  • Motor: weakness/wasting, incontinence  • Sensory: pain, numbness, tingling | Neurological           | Postural hypotension Arrhythmia  Aortic stenosis  Seizure  Parkinson's disease  TIA/stroke  Vasovagal  | Dizziness ± LOC on standing from lying Recently started/changed anti-hypertensive Fall after transient arrhythmia May have palpitations or feel very strange before collapse Cardiac history or family history of sudden death May have occurred during exercise or when supine Collapse on exertion Breathlessness worse on exertion  Partial Simple partial: focal motor seizure, no LOC Complex partial (e.g. temporal lobe epilepsy): strange actions with impaired awareness Generalised Tonic-clonic (grand mal): sudden LOC, limbs stiff then jerk, may become incontinent, bite tongue, feel awful with myalgia and confusion afterwards Absence (petit mal): unresponsively stare into space for ~ 5 seconds (in childhood) Atonic: all muscles relax and drop to floor Tonic: all muscles become rigid Myoclonic: involuntary flexion QUADRAD = rigidity + tremor + bradykinesia + postural instability Neurological symptoms e.g. limb/face weakness, slurred speech, hemianopia Occurs in response to stimuli e.g. emotion/pain/fear/prolonged standing Preceding nausea, pallor, sweat, closing visual fields |
|----------------------|--|---|------------------------|--|--|
|                      |  |   | Other<br>differentials | Cardiovascular Structural e.g. HOCUI Situation syncopies (e syncope) Carotid sinus hyperse Vertebrobasilar insufi Neurological Neuropathy e.g. MS Intracranial haemorri Drop attack (sudden I Drugs e.g. alcohol, polyphar Abdominal Ectopic pregnancy Ruptured AAA Misc | ical fall/postural instability ascular al e.g. HOCUM, ARVD n syncopies (e.g. cough syncope, effort syncope, micturition ) sinus hypersensitivity (precipitated by head turning/ shaving) abasilar insufficiency (elderly with cervical OA) gical athy e.g. MS nial haemorrhages (extradural, subarachnoid, subdural) ack (sudden leg weakness without warning/LOC/confusion) thol, polypharmacy nal pregnancy d AAA a (secondary to infection) se of vertigo above a caemia problems   |