

22.1_Acute Stroke & TIA

Case

Elliot Mable, aged 70 years, presents complaining of right sided weakness and loss of vision. Elliot has an episode of acute ischaemic attack 6 months previously that resolved spontaneously and he has been taking aspirin since this time. His symptoms began two hours ago.

What further history and examination would you undertake?	<p>Hx</p> <ol style="list-style-type: none"> 1. Are symptoms progressing or resolving? (if resolving can't call it a TIA until 24hrs as passed with all symptoms resolved) 2. Trauma, Falls, Seizures 3. Headache, visual changes, speech, other neuro disturbances 4. Consider all Meds <p>Cerebral Lesion if = Issues w/ Motor, Visual, higher functions (speech etc)</p> <p>Brainstem/Cerebellar Lesion if = Issues w/ Ataxia, diplopia, vertigo or bilateral weakness</p>
What investigations and further management would you order for suspected TIA or Stroke?	<p>B</p> <p>I – MRI or CT Brain, CXR</p> <p>M</p> <p>B – FBC, EUC, LFT, Coags, Lipids, BGL</p> <p>O – ECG (maybe A-fib causing clots?)</p>
What is the difference between a stroke and a transient ischaemic attack?	<p>TIA = a stroke where symptoms resolve within 24hrs</p> <p>STROKE = the focal neurological deficit worsens after patient first presents.</p>
List FIVE common differential diagnoses of a stroke and TIA	<p>Cerebral tumours</p> <p>Subdural haematoma</p> <p>Demyelination (e.g. GBS)</p> <p>Hypoglycaemia</p> <p>Migrainous aura (with or without headache)</p>
List the 4 modifiable and 4 non-modifiable risk factors for stroke.	<p>Non-Modifiable:</p> <ul style="list-style-type: none"> - Age - Gender - PHx TIA/Stroke - FHx <p>Modifiable:</p> <ul style="list-style-type: none"> - HTN - Smoking - Alcohol - Oral Contraceptives
List the four main indications for immediate CT/MRI in acute stroke.	<ul style="list-style-type: none"> ☐ Patient on anticoagulants or with abnormal coagulation ☐ Plan to give thrombolysis or immediate anticoagulants ☐ Deteriorating conscious level or rapidly progressing deficits ☐ Suspected cerebellar haematoma, to exclude hydrocephalus
Briefly describe the evidence in favour of a) acute stroke units B) Aspirin c) rTPA (Alteplase) d) statins	<p>a) Acute Stroke Units – early admission better outcomes</p> <p>B) Aspirin – 300mg daily after stroke reduces risk of early recurrence and long term has a small effect on reducing risk stroke/TIA</p>

<p>e) anticoagulants</p> <p>f) blood pressure lowering</p>	<p>c) rTPA (Alteplase) – There is a risk of rTPA causing a fatal intracranial haemorrhage. But overall there is a net benefit. (Treating 1000 patients within 3 hours prevents about 60 patients from being dead or dependent at 3 months).</p> <p>d) Statins – Treating 1000 pts over a year will prevent 17 strokes</p> <p>e) Anticoagulants (e.g., Heparin) – Reduction in early ischemic recurrence <u>benefits are offset by</u> a definite increase in the <u>risk of</u> both intracranial and extracranial <u>haemorrhage</u>. Furthermore, routine use of heparin does not result in better long-term outcomes. Heparin should <u>not</u> be used in the routine management of acute stroke.</p> <p>f) Lowering BP – v/effective: Lowering blood pressure even in the 'normal range' reduces the risk of recurrent stroke, myocardial infarction and vascular deaths. Treating 1000 patients for a year prevents about 22 strokes.</p>
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