


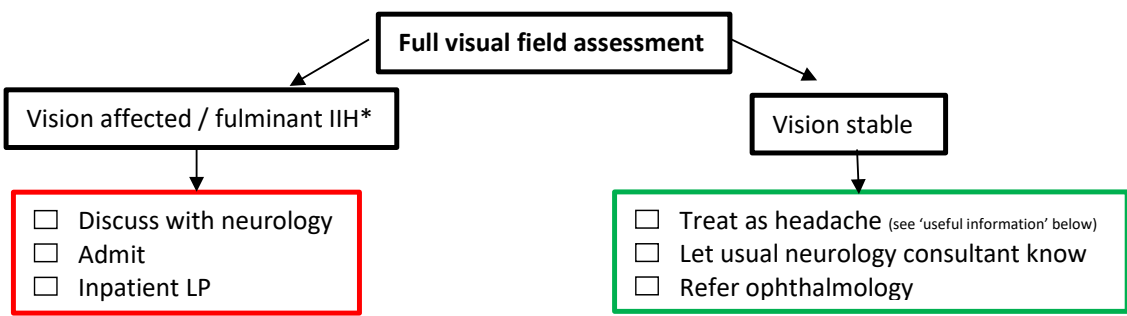


Forenames Lastname Hospital No. D.O.B.	 St Helens and Knowsley Teaching Hospitals NHS Trust <h2 style="margin: 0;">BILATERAL PAPILLOEDEMA PATHWAY</h2>
PATHWAY EXCLUSION CRITERIA	
<p>PATIENTS <u>MUST NOT</u> BE AMBULATED FROM ED WITHOUT AN IN PERSON REVIEW FROM THE MEDICAL TEAM</p> <p> <input type="checkbox"/> Unilateral papilloedema <input type="checkbox"/> Known intracranial pathology <input type="checkbox"/> Known IIH – proceed to Step 5 </p>	
STEP 1: Confirmed Papilloedema	
<p>Please tick which option applies</p> <p> <input type="checkbox"/> Referred in from ophthalmology <input type="checkbox"/> Identified on assessment in AMU / ED </p>	
STEP 2: Assessment of Patient	
<p>Please tick once completed</p> <p> <input type="checkbox"/> Take detailed history including description of new headache and other symptoms <input type="checkbox"/> Weight and BMI <input type="checkbox"/> Blood pressure <input type="checkbox"/> Pregnancy test if applicable <input type="checkbox"/> Neurological examination <input type="checkbox"/> Full visual assessment-(visual acuity <input type="checkbox"/> visual fields <input type="checkbox"/> Ishihara plates <input type="checkbox"/> eye movements <input type="checkbox"/> fundoscopy <input type="checkbox"/>) </p> <div style="text-align: right; margin-top: 10px;">  <small>*MDCalc App – ‘Ishihara test’</small> </div>	
STEP 3: Investigations to be completed	
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> <p><small>~If vision not affected, can go home overnight to return to SDEC</small></p> </div> <div style="width: 65%;"> <pre> graph TD A["CT brain + venogram <small>If unable to have CTV -> MRV</small>"] --> B["Normal scan"] A --> C["ABNORMAL SCAN Discuss urgently with on call neurologist or neurosurgeon"] B --> D["Inpatient lumbar puncture (LP) within 24 hours~ PERFORM IN RECUMBENT POSITION + TAKE OFF SUFFICIENT CSF FOR ANALYSIS + BRING CLOSING PRESSURE TO 15-18CM"] D --> E["CSF opening pressure <25cm, normal CSF constituents"] D --> F["CSF opening pressure ≥25cm, normal CSF constituents"] D --> G["Any CSF with <u>abnormal</u> CSF constituents"] E --> H["Less likely to be papilloedema ○ Reassessment by ophthalmology for alternative causes of disc swelling like optic neuropathies or vascular causes ○ Keep as inpatient if vision affected and discuss with neurology and ophthalmology"] F --> I["Typical Patient for IIH* ?"] I -- No --> J["Consider alternative causes • Infection, inflammation, malignancy, systemic disorders • Discussion with on-call neurologist"] I -- Yes --> K["DIAGNOSE IIH Proceed to step 4"] G -- Yes --> J </pre> </div> </div>	

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Step 4: Management of patients with newly diagnosed IIH	
<p>Please tick once completed</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><input type="checkbox"/> Explain diagnosis to patient and provide patient information leaflet</div> <div><input type="checkbox"/> Discuss that weight loss as the main treatment for IIH (aim for 15-25% reduction in weight in 6-9 months)</div> <div><input type="checkbox"/> Commence acetazolamide (250mg BD) (contraception counselling <input type="checkbox"/> inform of paraesthesia as common side effect <input type="checkbox"/></div> <div><input type="checkbox"/> Referral to neurology: <div style="margin-left: 20px;"> 1. URGENT if fulminant IIH* (contact on call neurologist) and admit patient to hospital</div> <div style="margin-left: 20px;"> 2. Otherwise, outpatient referral to Ambulatory Neurology Clinic @ Whiston for next available appointment. If >6 weeks until next available appointment, refer to RANA Clinic @ Walton-refer via http://rana.walton.wiki </div> </div> <div><input type="checkbox"/> Referral for follow up with ophthalmology</div> </div> <p>Fulminant IIH* Visual acuity or fields affected, affected colour vision, higher grades of papilloedema (grade ≥3)</p>	
Step 5: Patients with known IIH	
 <pre> graph TD A[Full visual field assessment] --> B[Vision affected / fulminant IIH*] A --> C[Vision stable] B --> D[Discuss with neurology Admit Inpatient LP] C --> E[Treat as headache (see 'useful information' below) Let usual neurology consultant know Refer ophthalmology] </pre>	
IIH*	
<p>Definitions: Typical IIH = females of childbearing age with a BMI >30 or recent weight gain Not typical for IIH = not female, not of childbearing age, low BMI, no recent weight gain, systemically unwell, active malignancy/immunocompromised. If not typical, <u>consider alternative diagnosis</u></p> <p>IIH diagnostic criteria</p> <ol style="list-style-type: none"> 1. Papilloedema 2. Normal neurological examination (except visual disturbance / 6th nerve palsy) 3. Normal brain parenchyma 4. Normal CSF constituents 5. Elevated CSF opening pressure of ≥25cm 	
Useful Information	
<p><u>Contact numbers:</u> Walton Centre: 0151 525 3611</p> <p>GPAU Co-ordinator: 0151 478 7537</p> <p>Ophthalmology Team Referral: ophthalmology.triage@sthk.nhs.uk (extension 6136)</p>	<p style="text-align: center;">Walton Centre Acute (secondary care) headache pathway for adults https://www.thewaltoncentre.nhs.uk/pathways.htm</p> <p style="text-align: center;">IIH patient information leaflet http://www.thewaltoncentre.nhs.uk/pathways.htm#iih</p> <p style="text-align: center;">Ambulatory Neurology Clinic @ Whiston Hospital Referral Email AMU secs AMU.secretaries@sthk.nhs.uk</p>