

**1. Transient LOC**

*Excluding...*

- Exclude Transient LOC due to:**
- **Seizure** (i.e. Aura, Jerking pre-LOC/collapse, Tongue biting on lateral edge not tip, Post-ictal phase present) – if in doubt, it is safer to perform this Syncope assessment.
  - **Head Injury / Trauma** (Causal)
  - **Coma / CVA**

**Syncope Definition**  
*Transient* Global Cerebral hypoperfusion  
 Rapid onset, short duration  
*Spontaneous and Complete recovery*

*Considering...*

Neurally Mediated	Orthostatic Hypotension	Cardiovascular
Absence of Heart Disease	Absence of Heart Disease	Structural Heart Disease
Long Hx of Recurrent Syncope	After standing	Family Hx of Sudden Death
Trigger Present – pain, shock, heat, standing	Temporal Relationship with change in meds	<i>During</i> Exertion/Supine
Associated with Nausea or vomiting	Prolonged standing in crowded / hot place	Sudden palpitations immediately followed by syncope
During/Post Eating meal	Autonomic Neuropathy (e.g. Parkinson's, diabetes)	Abnormal ECG
Neck Pressure / Stimulation	Standing after exertion	
<i>After exertion</i>		

- 2. Routine ED Assessment**
- Continuous Cardiac **Monitoring** whilst in ED
  - **History:** Age, Prodrome, Triggers, Associated Symptoms, Injuries, Previous Episodes, PMHx, FHx (see table to right)
  - **PEx:** General exam and Postural & Bilateral BP, Carotid Sinus Massage (If not contraindicated)
  - **ECG**
  - **BSL**
- Special Cases Only**
- **bHCG** (Urine) in females
  - **Only** if clinically suspect abnormality - EUC / Hb
  - **Only** if Chest pain / ECG Changes – consider Troponin

*Considering...*

**Dangerous Cause Confirmed / Suspected**

**Benign cause suspected, or Cause unknown**

- Dangerous Causes Include**
- Cardiovascular:**
- **Arrhythmia** (Tachy or brady)
  - **Ischaemic** (<3% of all presentations)
  - **Structural** (AS / Cardiomyopathy/ Tamponade)
- Neurological: (nb need return of full neurological function):**
- **Subarachnoid Haemorrhage**
  - **TIA** (involving Vertebrobasilar territory -> RAS)
  - **Subclavian Steal** (stenosis of Subclavian artery)
- Other:**
- **Massive GI Bleed**
  - **Shock** from other causes

**3. Consideration of High Risk Criteria**

**Follow management guidelines of Specific Condition**

- Severe Structural or Coronary Heart Disease**
- Heart Failure; Low LVEF; Previous MI
- Clinical or ECG features suggesting Arrhythmia**
- Syncope During Exertion or whilst Supine
  - Palpitations at the time of Syncope
  - Family History of Sudden (Cardiac) Death
  - Non-Sustained VT
  - Bifascicular Block (L/R BBB + Left ant/post Fascicular Block) *OR* Intraventricular Conduction abN with QRS duration >120ms
  - Inadequate Sinus Brady or SA Block (without medications/ Physical Training)
  - Pre-excited QRS Complex
  - QT Interval short or long
  - Brugada Pattern (RBBB with STE in V1-V3)
  - Negative T Waves in Rt Precordial Leads, epsilon waves and Ventricular late potentials (suggestive of Rt Ventricular Cardiomyopathy)
- Important Co-morbidities**
- Severe Anaemia
  - Electrolyte Disturbance
  - Elderly
  - And **Apply your Gestalt!!!**

**4. Admit those with high risk criteria**

- No High Risk Factors -> Consider Discharge (after discussion with Senior Clinician)**
- Education (Triggers, Prodrome, Physical Manoeuvres, Teds)
  - Review Medications (in consultation with GP)
  - Consider for Tilt Table Testing
  - Consider referral / further testing via GP or neurology / cardiology

- High Risk Factors -> Admit**
- Admission / Intensive Investigation
  - Cardiology / Special review
  - Continued Telemetry
  - Consideration of ECHO / EPS / Angio / EEG / CTB / Dopplers