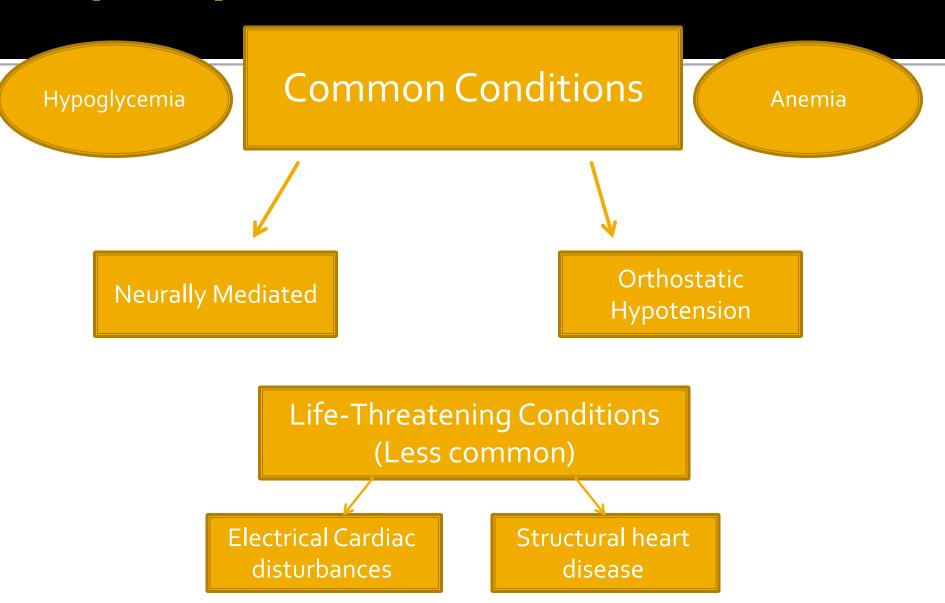
### Loss of Consciousness Syncope VS Epilepsy

### Syncope



### Neurally Mediated Syncope

- Vasovagal (neurocardiogenic):
  - Most common cause of syncope → 25%-30%
  - Neural reflex resulting in self-limited systemic hypotension
  - Pathogenesis:
    - Cardioinhibitory response → more common
    - Vasodepressor response
  - Clinically:
    - Prodrome → nausea, pallor, diaphoresis
    - Classical → induced by emotional or orthostatic stress (fear, pain, heat)
    - Non-classical → usually older patients, may have no apparent stressor, may be combined with orthostatism
  - Evaluation:
    - Tilt-table testing → Sensitvity 60%-70%
    - Adenosine provocation

## History Taking Circumstances

- Activity:
  - Micturition/Defecation → Reflex Syncope
  - Physical exercise > Cardiac (structural/electrical)
- Predisposing Factors:
  - Head movement/shaving -> Carotid sinus h.s.
  - Fear/Pain → classic Vasovagal (Reflex) syncope
  - Heat/Dehydration → Reflex syncope
  - Flashing lights/sleep deprivation → Epilepsy

## History Taking Events at Onset

- Nausea, sweating, pallor → reflex syncope
- Palpitations → cardiac arrhythmia
- Abdominal sensations, unpleasent smell/taste, deja-vu, jamais-vu → Epileptic aura

## History Taking Events During Attack

- Fall:
  - Epilepsy:
    - Stiff (rarely syncope)
  - Syncope:
    - Flaccid
- Movements:
  - Epilepsy:
    - Beginning before the fall
    - At onset of LOC
    - Lasting >30s to minutes
  - Syncope:
    - Beginning after the fall
    - After onset of LOC
    - Lasting <15sec</li>

#### •Other:

- •Epilepsy:
  - Lateral tongue bite
  - •Frothing at the mouth
  - Incontinence
  - •Automatism → chewing, blinking
- •Syncope:
  - Anterior tongue bite
  - Incontinence

### History Taking Events after attack

- Syncope:
  - Nausea, sweating, pallor autonomic activation
  - Clearheaded immediately upon regaining consciousness
- Epilepsy:
  - Confused for minutes after regaining consciousness

# Quick Evaluation System Syncope VS Epilepsy

	Points
Wake with tongue cutting?	2
Déjàvu or jamais vu?	1
Emotional stress associated with loss of consiousness?	1
Head turning during a spell	1
Unresponsive, unusual posture, limb movement, or amnesia	1
of spells? (any one of these)	
Confusion after a spell	1
Lightheaded spells	-2
Sweating before spell	-2
Spell associated with prolonged sitting or standing	-2
If point score is ≥1 the likelihood is seizure or if <1 the likelihood is syncope.	
Table: Questionnaire and scoring system for symptoms pertaining to loss of consciousness <sup>18</sup>	



### References

- Falls, faints, fits and funny turns.
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