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Evidence-Based Clinical Pathway: Syncope Evaluation

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Primary Sources: 1. Huff JS, Decker WW, Quinn JV, et al. American College of Emergency Physicians. Clinical policy: critical issues in the evaluation and management of adult patients presenting to the emergency department with syncope. *Ann Emerg Med.* 2007;49:431-444. **(Systematic review)** 2. Soteriades ES, Evans JC, Larson MG, et al. National Heart, Lung, and Blood Institute Framingham Heart Study. Incidence and prognosis of syncope. *N Engl J Med.* 2002;347(12):878-885. 3. Tainter C. Current Guidelines for Diagnosis and Management of Syncope in the Emergency Department. EM Practice Guidelines Update. 2010;2(12):1-9.

Table 1: Evidence suggesting seizure

- Neurologic Aura
- Tonic clonic movements for > 15-30 sec
- Tongue biting
- Incontinence
- · Post event confusion/lethargy

Table 2: Evidence suggesting cardiac etiology

- Concerning ECG (See Table 3)
- Exertional or supine occurrence
- Family history of sudden cardiac death
- Absence of prodrome
- Palpitations or chest pain
- New murmur

Table 3: Concerning EKG findings

- Arrhythmia
- Ischemia
- Pre-excitation
- Brugada syndrome
- Hypertrophic obstructive cardiomyopathy
- Corrected QT interval > 500 ms

Table 4: Risk factors for short term adverse events

- Abnormal EKG
- Hematocrit < 30
- · History of heart failure, CAD, or structural heart disease
- · Age 65 or greater, or patients with associated comorbidities

Table 5: Findings suggesting a benign etiology

- Noxious stimulus (psychogenic origin)
- Positional (orthostatic) history
- History of prolonged period of standing
- Changed or new antihypertensive medication use
- Sterotyped situation (micturation/defecation)
- Response to carotid massage

