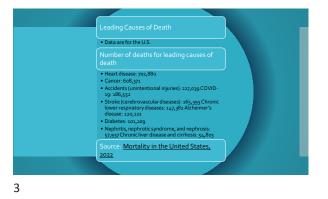


1



HEART Score for Major Cardiac

Ace

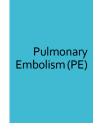
INSTRUCTIONS	
Use inpatients x21 years old presenting with sympto- not use if new 57-segment elevation x1 mm or other hypothesion, life expectancy/lass that year, or nor medical/sugical/psychiatric lifess determined by th admission.	new ENG changes, cardiac
Definitions	
 History - Retrosternal pain, press 	ure, radiation to
jaw/left shoulder/arms, duration exercise/cold/emotion, perspirati reaction on nitrates within mins, symptoms. Low risk features of c localized, sharp, non-exertional, nausea or vomiting, and reprodu	5-15 min, initiated by on, nausea/vomiting, patient recognizes hest pain include: well to diaphoresis, no
 Non-specific repolarization dist typical changes suggesting LVH, disorders suggesting digoxin, une repolarization disorders. 	repolarization changed known
 Significant ST-segment - deviati LVH, or digoxin. 	on without LBBB,
 Risk Factors - HTN, hypercholest obesity (BMI >30 kg/m²), smoking cessation ≤3 mo), positive family 	(current, or smoking
sibling with CVD before age 65). • Troponin - Use local, regular sense and corresponding cutoffs	iitivity troponin assays



EKG's are Hard – Sneaky STEMÍ



"I lifted my mower 48 hours ago, I think I pulled my back."



6

4

Commonly Missed Diagnosis

- Most Common EKG finding is Sinus Tachycardia
- D-dimer is useful but must be used in appropriate setting (PERC Positive Patients who are not High Risk Wells Criteria)
- High Risk Wells Criteria Patients with Concern for PE should have Imaging as D-dimer false negative rate is generally around 2%

Pregnancy and Covid patients are also known to be at higher Rick

Pulmonary Embolism Ruleout Criteria (PERC)

- Age ≥50 • HR≥100 • O2 sat on room air <95% Unilateral leg swelling Hemoptysis
- Recent trauma or surgery
- Prior PE or DVT
- Hormone use (oral contraceptives, hormone replacement or estrogenic hormones use in males or female patients)



8

Clinical signs and symptoms of DVT	No 0	Yes +3
PE is #1 diagnosis OR equally likely	No 0	Yes +3
Heart rate > 100	No 0	Yes +1.5
immobilization at least 3 days OR surgery in the previous 4 weeks	No 0	Yes +1.5
Previous, objectively diagnosed PE or DVT	No 0	Yes +1.5
Hemoptysis	No 0	Yes +1
Malignancy w/ treatment within 6 months or palliative	No 0	Yes +1

A score of 2 puts an individual at moderate risk (-16%). At a Score of -5 to 6 Ddimer is no longer appropriate

7

Canadian Syncope Risk Score no t No I Arrythmia NuClifrene Notry GD, and Rollator or Me disease Si 0 Pri d and Syncope 2-00 or > 100 mmil) Decay reading Six 0 Pri d 50 O Reserved OPS and + 107 at 2007

INSTRUCTIONS The in adult patients presenting will rearridgic baseline. Dr not use in p atomot or drug-related loss of corea coreaciousness from head trauma.	effects with persistent of	nev seurologic deficits
Wentolike 🗸	$\operatorname{Pearls}_{\mathbf{V}}$	lifylie y
Congestive Insattlaikure Natory	10	. Yes
Hematacrit (32%	14	Tes
EBG abnormal (BGS changed, or any n rhythin on EGG or monitoring)	orsina lie	. Te
SicConsol brath-periodory.		The second se

A score of 1 indicates a Moderate Risk Patient (3% Risk of Serious Adverse Event)

Common Arrythmia's

10

Atrial fibrillation with Rapid Ventricular Response is by far the most common arrythmia in the ED. Uncomplicated individuals with a story confident for less than 4.8 of arrythmia hours or continuously anticoagulated in the ED safely. Must be NPO

- New Onset Asymptomatic Afib that is rate controlled is generally safe to discharge with outpatient follow up
- A very fast (~160s ish) tachy dysthymia with little to no rate variation may be Aflutter

SVT can sometimes be converted with vagal maneuvers. Blowing in to a locc syringe, bearing down, and if you are committed ice submersion are good choices.

WIDE COMPLEX tachy dysrhythmias should be treated very cautiously.
 Commonly atrial fibrillation with aberrancy but WPW and stable Vtach exist

9

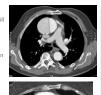


12

Acute Dissection generally presents ill appearing and in severe pain Likely Hypertensive in Acute Phase (Esmolol followed by Nicardipine) Mortality goes up by the minute

- depends on if the ascending aorta is involved
- involved Management of Thoracic Aortic Aneurysm depends on size (>5cm is generally acted upon, smaller depending on symptoms and is it actively expanding)

For these diagnosis be careful with special populations. Connective tis: disease, severe uncontrolled hypertension, pregnancy.





GI Related

od Bolus Obstruction - Inability to tolerate secretions in an indication for EMERGENT endoscopy if the obstruction can't be cleared - When protecting their airway and tolerating secretions provider discretion should be used for timing of endoscopy

Food Bolus Obstruction

 Gastrointestinal Esophageal Gastrointestinal Esophageal Reflux Disease • This is a major cause of chest pain and likely represents a large portion of the population • Do not take relief with GI cocktail as the be all end all • Previous experience of the patient can be helpful Trauma, Always Break Down as Stable versus Unstable

14

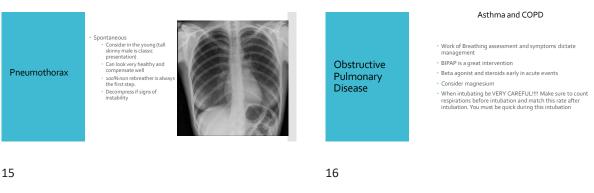
Chest can be difficult due to multiple organ systems involved

- Imaging is helpful to differentiate. Consider CT based on mechanism
- Some injuries will be missed on plain film (Scapular, Nondisplaced Rib Fractures, and Sternal Fractures to name a few)

 In high energy events make sure to consider cardiac and pulmonary contusion as these can present late and cause poor outcomes. On CXR be careful about consolidation reads.



13





 In ED patients with asymptomatic elevated blood pressure, does screening for target organ injury reduce rates of adverse outcomes? Level C Recommendations

(1) In ED patients with asymptomatic markedly elevated blood pressure, routine screening for acute target organ injury (eg, serum creatinine, unnalysis, ECG) is not required. (2) in selet patient populations (eg, poor follow-up), screening for an elevated serum creatinne level may identify iddney injury that affects disposition (eg, hospital admission).

In patients with asymptomatic markedly elevated blood pressure, does ED medical intervention reduce rates of adverse outcomes?

- Level C Recommendations
- Level. Recommendations (a) In patients with asymptomic markedly elevated blood pressure, routine BD medical intervention is not required. (a) In select patient populations (eg. porfoliov-up) mergency physicasis may treat markedly elevated blood pressure in the ED and/or initiate therapy for long-term control. [Consensor scremmendation (a) Patients with asymptomatic markedly elevated blood pressure should be referred for outpatient follow-up. [Consensor screammendation] (a) takients with asymptomatic markedly elevated blood pressure should be referred for outpatient follow-up. [Consensor screammendation] (a) takients with asymptomic markedly elevated blood pressure is hould be referred for outpatient follow-up. [Consensor screammendation] (b) takients with the pressure is the pressure in the pressure is not pressure in the pressure in the pressure is not pressure in the pressure is not pressure in the pressure is not pressure in the pressure in the pressure is not pressure in the pressure in the pressure in the pressure is not pressure in the pressure is not pressure in the pressure
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