

CT for Pulmonary Embolism

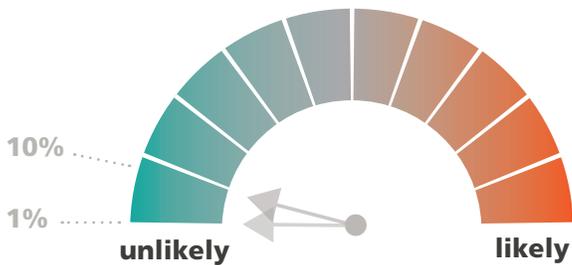
SHOULD I TEST?

1 Will it make a difference?

No patient doesn't want to know	No patient is already on or can't receive anticoagulation	No patient has kidney disease or allergy to dye	Yes take next steps
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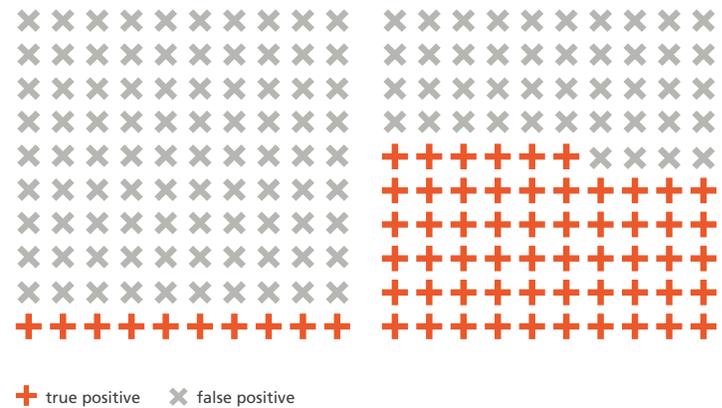
2 What is the chance of disease before testing?

1% PRETEST PROBABILITY patient under 50 no leg swelling surgery normal vital signs	10% PRETEST PROBABILITY patient recently bedridden leg edema shortness of breath
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3 What will a positive result mean?

1% PRETEST PROBABILITY 10% true positive 90% false positive	10% PRETEST PROBABILITY 56% true positive 44% false positive
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4 Decide with patient if testing.

Detects >90% of pulmonary embolism if present

Negative results exclude pulmonary embolism

- 6%** renal injury
- 18%** incidental finding requiring follow-up
- \$260-1800** Patient cost (variable co-pay)
- 3-10%** false positive pulmonary embolism requiring PE RX
- 1/10,000** X-ray causing cancer
- 4%** risk major bleeding with treatment

benefits

harms