

D-Dimer

March 4, 2020 Dr. Bruce Wong

Not a very accurate test: Percentage of True (+) and True (-)

Very sensitive (96%) but not specific (46%). Like airports.

Well's Criteria: DVT

Cancer within 6 months	1
Leg cast	1
Recent surgery, bedridden	1
Tender near deep vein	1
Entire leg swelling	1
Calf circumference difference 3 cm	1
Unilateral pitting edema	1
Venous distension (not varicose)	1
Past DVT	1
Alternate Diagnosis more likely	-2

Low risk: 1 or lower

Well's Criteria: PE

Clinically suspect DVT	3
PE most likely diagnosis	3
Cancer within 6 months	1
Immobilization/surgery within 4 weeks	1.5
Past DVT or PE	1.5
Hemoptysis	1
HR > 100	1.5

Low risk: <4

Mid risk: 4-6

High risk: >6

PE Rule Out Criteria (PERC)

O2 Sat 95% or greater
HR <100
No unilateral leg swelling
No hemoptysis
No past DVT or PE
No surgery/trauma in 4 weeks
Age 50 or less
No BCP or hormone replacement

Scan a suspected DVT

PERC a suspected PE

D-Dimer a low to mid risk PE, scan a high risk PE

When is a positive D-Dimer not positive?

Age adjusted value

For patients over 50 years old, D-Dimer is less than age

Low Risk Well's scores

Well's score ≤ 4 and D-Dimer < 1.00

Negative YEARS criteria (3)

Clinically suspect DVT	3
PE most likely diagnosis	3
Cancer within 6 months	1
Immobilization/surgery within 4 weeks	1.5
Past DVT or PE	1.5
Hemoptysis	1
HR > 100	1.5

D-Dimer < 1.00

Also applies to pregnancy