

**Academic Half Day Guide for Learners**  
**ITE High-Yield Topics and Associations**

**Part 1: Identify the disease**

Daycare worker Symmetric arthritis involving feet and hands including MCPs	
African immigrant Iron deficiency anemia and hematuria	
Young man with fever, sore throat, diffuse lymphadenopathy, myalgias, rash, oral ulcers Monospot and rapid strep negative	
Puerto Rican Erythema nodosum, lower extremity arthritis, hilar adenopathy	
Man 2 years post kidney transplant for DMT2 Fever, multiple skin abscesses, cavitory lung lesion and brain abscess	
Broad based budding  <i>Bonus: acute angle branching WITH septations</i>  <i>Bonus bonus: right angle branching WITHOUT septations</i>	
Liver and kidney failure; conjunctival suffusion Animal urine exposure	
Confusion, meningoencephalitis Flaccid paralysis & dead birds	



A new influenza vaccine has been developed. In the study group, the risk of contracting influenza was 32% with a mortality rate of 3%. In the control group, the risk of contracting the disease was 35% with a mortality rate of 5%.

What is the absolute risk reduction for contracting influenza?

- A) 1%
- B) 3%
- C) 5%
- D) 2%
- E) 4%

What is the number needed to vaccinate with the new product to prevent one case of influenza?

- A) 100
- B) 50
- C) 34
- D) 25
- E) 20

**Part 3 – Fill in the tables!**

**PPD for TB Table**

Given the induration measurements below, match the patient to the positive cut point.

<5mm	>5mm	>10mm	>15mm

- Farmer
- IV drug user
- Hospitalist
- Teacher
- Chronic high dose prednisone use
- HIV + Patient
- Pt with new TB exposure
- Recent arrival from high-prevalence country
- Post transplant on immunosuppression
- Diabetic patient
- CXR with evidence of prior TB

**Autoantibodies Table**

Given the induration measurements below, match the patient to the positive cut point.

Autoantibody	Disease
Anti-Smith	
Anti-histone	
Anti-dsDNA	
Anti-Ro/La	
Anti-topoisomerase 1 (scl-70)	
Anti-mitochondrial	
Anti-smooth muscle	
Anti-centromere	
Anti-Jo1/PM1	
Anti-CCP	
Anti-HU	
Anti-RNP	
c-ANCA (anti-PR3)	
p-ANCA (anti-MPO)	

**Pulmonary Function Testing Table**

For the following chart, please list the associated patient presentation, A-E, and diagnosis beneath the corresponding PFT values.

Parameter	Value				
	Normal	Normal	Normal	Reduced	Reduced
FVC	Normal	Normal	Normal	Reduced	Reduced
FEV1	Reduced	Normal	Reduced	Reduced	Reduced
FVC%	Reduced	Normal	Reduced	Normal	Normal
TLC	Elevated	Normal	Elevated	Reduced	Reduced
DLCO	Normal	Reduced	Reduced	Reduced	Normal
<b>PATIENT PRESENTATION AND DIAGNOSIS</b>					

- A) A 28-year-old patient with chronic cough and seasonal allergies
- B) A 72-year-old man with dry crackles at his lung bases and exertional oxygen desaturation
- C) A 48-year-old woman with severe kyphoscoliosis.
- D) A 62-year-old man with a 50-pack year history of smoking and wheezing.
- E) A 36-year-old woman with dyspnea and severe iron deficiency anemia

**IBD Table**

Compare and contrast UC and Crohn's. Include presentation, endoscopic findings, and pathology.

	UC	Crohn Disease
Location		
Symptoms		
Endoscopic findings and pathology		
Smoking correlation		

**Thyroid Table**

Condition	Clinical Presentation	TSH	T4
Hypothyroidism			
Thyrotoxicosis			
Subclinical hypothyroidism			
Subclinical hyperthyroidism			
Graves disease			
Sick euthyroid			
Subacute thyroiditis			
Jod-Basedow phenomenon			

