

## LECTURE 1

Q1/

21 yrs woman came to the clinic for a regular check up, her doctor noticed that she has a pale skin and nails, she told she felt off lately with recurrent mouth ulcers, and sometimes she felt that she has SOB. Her lab results showed the following:

MCV: 62 fl

Hg: 10.7 g/dl

BP: 115/74

HR: 62

PO2: 88

Ferritin: 68 ng/ml L

S. Iron: Low

Transferrin: High

B12 and folate: N

Which of the following answers suit the diagnosis?

1. iron deficiency anemia
2. Leukemia
3. Microcytic Iron deficiency anemia
4. Macroblastic b12 deficiency anemia
5. BM disorder

## LECTURE 2

Q2/

43 yrs Man came to the ER complaining about SOB, harsh coughing, bad headache and elevated temp. the physician orderd acid fast culture, he also did ultrasound of the abdomen and saw early liver necrosis, and noticed extra symptoms as: Hair loss, Mouth ulcers, the pateint won't stop shaking his legs, irritable mood and brittle nails.

his lab results showed:

Culture: TB

Hg: 9.3

MCV: 83

Hct: 38%

Ferritin: 380 ng/ml H

TIBC: Low

PO2: 84

Retic count: 1.7

B12: Borderline

Folte: Borderline

Diagnosis of Anemia?

1. B12 def. anemia
2. Microcytic normochromic anemia with chronic disease
3. Normochromic normocytic anemia With chronic disease
4. Aplastic anemai

Q3/

56 yrs old women showed to her annual check up complaining of unsteady gait, numbness and loss of position of sense, also brittle nails are bothering her, she told the physician the numbness could be bcs of her high blood sugar as she is diabetic. the physician noticed while talking to her that she loses her concentraion of the topic disscussed quickly. the drugs that the pateints take are: Lanzoprazol, metophormin, Carvidolol.

He ordered some lab work and results were:

Hg: 7.8

MCV: 120 fl

Ferritin: Normal

TIBC: Normal

PO2: 84

Retic count: 1.4

B12: Low

Folte: Borderline

What is the type of her anemia? Look closely at the drugs (PPI)

1. Macrocytic anemia
2. Microcytic anemia

Q4/ LEVEL: HARD

Diagnose the CBC:

Hg: 5.4

MCV: 93 fl

Ferritin: 488 ng/ml

S. Iron: 320

Transferrin: Low

TIBC: Low

RDW: 12.4

Hct: 15%

CRC: 2.4

Note that by the meaning with BM function, I mean the synthesis of RBC

So??

1. Normocytic Anemia with low BM function
2. Macrocytic Anemia with good BM function
3. Normocytic anemia with good BM function
4. Microcytic anemia with low BM fucntion
5. Macrocytic anemia with normal BM function
6. Microcytic anemia with good BM function

**Answers:**

**Q1/**

**1**

**Q2/**

**3**

**Q3/**

**1**

**Q4/**

**3**

**GOOD LUCK!**