# <u>CLINICAL CASE OF PNEUMONIA</u> <u>IN A PATIENT WITH</u> <u>IMMUNODEFFICIENCY CAUSED</u> <u>BY HIV INFECTION</u>

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- Female, 39 years old
- Abuses alcohol
- In February 2020 she visited European countries
- She is a health worker of General Practice Network (GPN)
- She was hospitalized for acute pancreatitis in May 2019
- She was hospitalized to an infectious disease hospital in March 2020

# Complaints

- Shortness of breath, which gradually increases
- Unproductive cough
- Increase in body temperature to 38.2 °C
- Weight loss
- Perioral cyanosis
- Headache
- Periodical diarrhea

### **Test Results:**

Complete blood count:

WBC - 1.9\*10<sup>9</sup>/l RBC - 2.31\*10<sup>12</sup>/l HGB - 77g/l PLT - 28\*10<sup>9</sup>/l ESR - 28 mm/hour

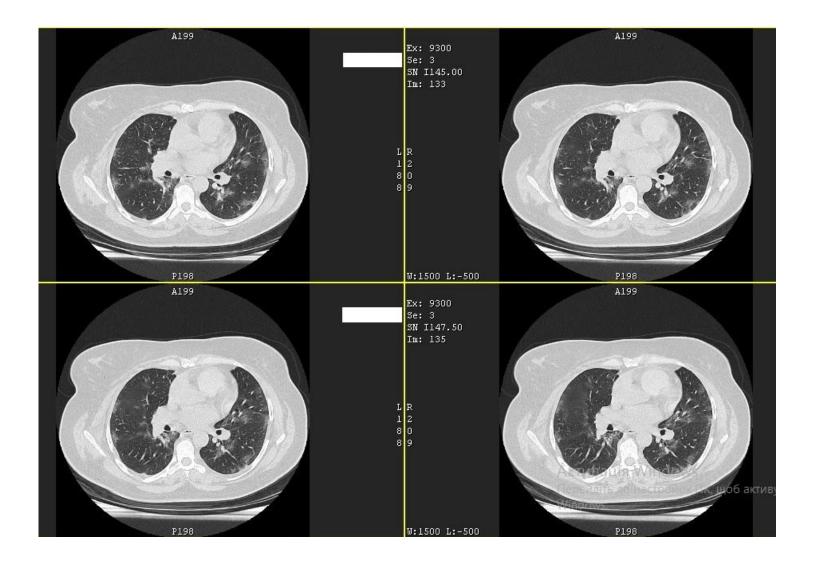
SpO2 = 91%

### Test Results:

**Biochemical blood analysis:** 

ALT - 16 U/L AST - 5 U/L Bilirubin - 9, 08 мкмоль/л Creatinine - 65.1 µmol /L Total protein - 56.5 g / I Amylase - 131 U /L Potassium - 3.6 µmol /L

## Examination results: Chest CT Scan



# Questions

What is the preliminary diagnosis?

- 1. TB
- 2. Pneumonia
- 3. Chronic obstructive pulmonary disease (COPD)

#### Diagnosis: Bilateral polysegmental pneumonia, I-II degree RD

## Questions

What other tests and examinations are needed for differential diagnosis? 1. PCR test for SARS-CoV-2 2. HIV test 3. Sputum analysis 4. All of the above

Tests: PCR test for SARS-CoV-2 – negative result HIV test – positive result

After the test for HIV, information was obtained that the woman was aware of her HIV-positive status.

In November 2019, she was prescribed the following ART regimen: TDF/FTC/DTG, which she is not taking

Gene Xpert MTB/Rif of sputum (MTB+/Resist-)

CD4 (29 cells/mL), VL (721000 PHK copies/mL)

Head MRI – diffuse small focal changes

Gene Xpert MTB/Rif of CSF (MTB+/Resist-)

### Questions

What is the diagnosis?

TB
PCP
Pancreatitis
All of the above

Firstly diagnosed miliary TB, with lesions of both lungs and brain Pneumocystis pneumonia Pancreatitis Pancytopenia

### Treatment

2 H R E Z / 10 H R (Isoniazid, Rifampicin, Ethambutol, Pyrazinamide) Trimethoprim / Sulfamethoxazole Glucocorticosteroids Symptomatic treatment

### Outcome





