Case report





Case female, 50 years old

nurse non-smoker no immunosuppression **Symptoms:**

- fatigue
- dyspnea
- fever



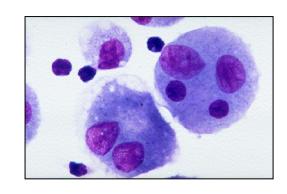


Case male, 50 years old

Recovered volume: 165 ml

Total cell count: 204.000 /ml

AMs Lym PMN EOS	80.0% SEC 0/500
Lym	17.6% BEC 20/500
PMN	2.2% ICO 0.0%
EOS	0.2%



Presence of multinucleated macrophages

TBC: negative, PCP: negative

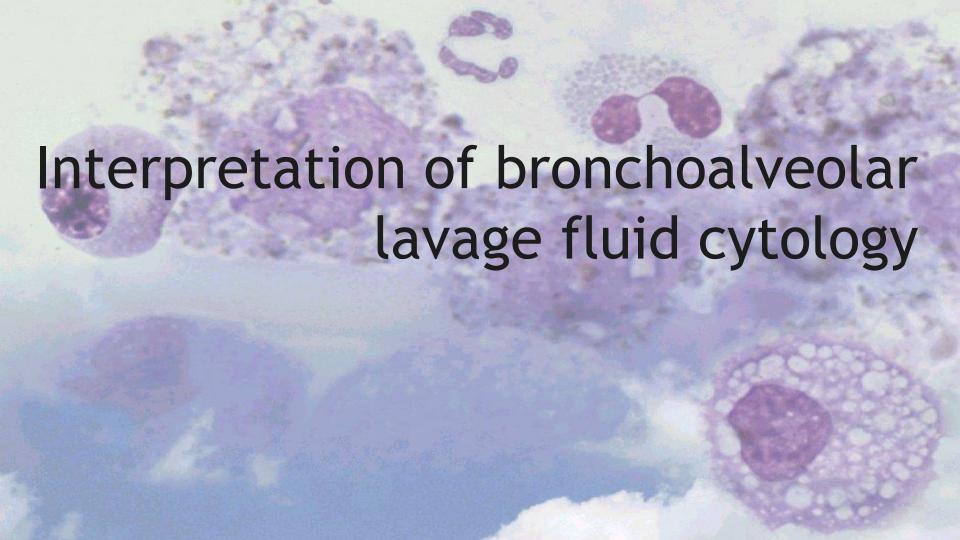


Differential diagnosis

- 1. Infection
- 2. Extrinsic Allergic Alveolitis (EAA) or Hypersensitivity Pneumonitis (HP)
- 3. Idiopathic pulmonary fibrosis
- 4. Sarcoidosis

Which diagnosis is most likely?





Name patient: X Age (15-80): 50 Sex: Male ○ Female Smoking? Yes No 30-04-58 Date of birth (DD-MM-YYYY): Patient number: 0000000 Fluid in (30-300ml) 200 Fluid out (0-300ml) 165 Cell count x 104/ml (0.1-9999.9) 20.4 Eosinophils (0 - 99.9%) 0.2 Neutrophils (0 - 99.9%) 2.2 Lymphocytes (0 - 99.9%) 17.6 Macrophages (0 - 99.9%) 80.0 enter quit

The outcome is:

Name patient:

X

Age (15-80):

50

Sex

Male () Female

Smoking?

Yes No

Date of birth (DD-MM-YYYY):

30041958

Patient number:

0000000

Fluid in (30-300ml)

200

Fluid out (0-300ml)

165

Cell count × 10⁴/ml (0.1-9999.9)

20.4

Eosinophils (0 - 99.9%)

0.2

Neutrophils (0 - 99.9%)

2.2 17.6

Lymphocytes (0 - 99.9%) Macrophages (0 - 99.9%)

80.0

Probability of bacterial infection = 0.0 % In case of a bacterial infection (probability: > 50%) just ignore the following predictions

In case of no bacterial infection, the outcomes are:

1 = Sarcoidosis = 97.1 %

2 = Extrinsic Allergic Alveolitis (EAA), Hypersensitivity Pneumonitis (HP) or Drug-Induced Pneumonitis (DP) = 0.0 %

3 = Idiopathic Pulmonary Fibrosis (IPF) = 2.8 %

Predicted diagnosis thus becomes Sarcoidosis, in case of no bacterial infection

The BAL fluid analysis results have to be interpreted with care, and, clinical data are mandatory to make up the final decision about the most probable diagnosis. The intention of this prediction is to support other important clinical diagnostic procedures.

enter

savetext

quit

PhD theses dealing with BAL

