



# ΠΑΡΟΥΣΙΑΣΗ ΠΕΡΙΣΤΑΤΙΚΟΥ

ΣΠΥΡΟΠΟΥΛΟΣ ΓΙΩΡΓΟΣ  
ΠΝΕΥΜΟΝΟΛΟΓΟΣ

# PATIENT DATA

- ❖ Age : 47 years old
- ❖ Occupation : blacksmith
- ❖ Ex Smoker (17 pack/years)
- ❖ Medical history: none
- ❖ Family history : none
- ❖ No medication for any other cause

## ❖ Symptoms

- ❖ Cough
- ❖ Dyspnea
- ❖ Thoracic pain

# CHEST CT SCAN

# DIAGNOSTIC APPROACH

- ❖ Ga-67 scintigraphy
- ❖ Bronchoscopy
  - ❖ Bronchial biopsies
  - ❖ Bronchoalveolar lavage
- ❖ Pulmonary Function Tests

# GA-67 SCINTIGRAPHY

- ❖ Normal uptake of the radioactive material at the sites of the lungs, head, bone marrow, liver and abdomen.
- ❖ Absence of Lamda and Panda signs.

# BRONCHIAL BIOPSY

- ❖ **Findings compatible to chronic granulomatous infection.**

# BRONCHOALVEOLAR LAVAGE

Total cell count	
NEU	14 %
LYMPH	16 %
MONO	0 %
EOS	1 %
Alveolar macrophages	69 %
Total	100 %

Lymphocytes	
T - cells	97 %
B - cells	1 %
NK - cells	2 %
Total	100 %

T cells	
CD4 <sup>+</sup> T <sub>H</sub> (helpers)	44 %
CD8 <sup>+</sup> T <sub>C</sub> (cytotoxic)	47 %

**CD4<sup>+</sup>/CD8<sup>+</sup> : 0.94**

# PULMONARY FUNCTION TESTS

<b>FEV<sub>1</sub></b>	51.6 %
<b>FVC</b>	63.6 %
<b>FEV1 %</b>	65.66
<b>MMEF</b>	23.3 %
<b>RV-HE</b>	60.5 %
<b>TLC-HE</b>	62.4 %
<b>TLCOc</b>	76.2 %



# DISEASE COURSE

- ❖ The patient was treated with CS p.os for a period of at least six months.
- ❖ He did not improve as expected.
- ❖ He underwent lung biopsy by Video Assisted Thoracic Surgery (VATS)

# LUNG BIOPSY (VATS)

- ❖ Tissue samples:

- ❖ Right upper lobe
- ❖ Middle lobe
- ❖ Right lower lobe
- ❖ Parietal pleura

- ❖ **Non caseating chronic granulomatous infection**

# CHEST CT SCAN

# DISEASE COURSE

- ❖ Due to the chronic persistent course of the disease, the patient was treated with CS p.os and methotrexate.
- ❖ Methotrexate 12 mg /week and methylprednisolone 16 mg once daily

# CHEST CT SCAN

# PULMONARY FUNCTION TESTS

	<b>OCS</b>	<b>OCS + MTX</b>
<b>FEV<sub>1</sub></b>	48.1 %	61.5 %
<b>FVC</b>	60.5 %	68.5 %
<b>FEV1 %</b>	64.89	72.81
<b>MMEF</b>	23 %	35 %
<b>RV-HE</b>	43.1 %	55.9 %
<b>TLC-HE</b>	54.4 %	60.2 %
<b>TLCOc</b>	57.6 %	70.7 %

# CURRENT STATUS

- ❖ Stage 3 disease (Scadding criteria)
- ❖ Dyspnea (MRC 2)
- ❖ Treatment:
  - ❖ prednisolone 5mg once daily
  - ❖ Methotrexate 5mg/week
- ❖ Discontinuation of methotrexate under consideration