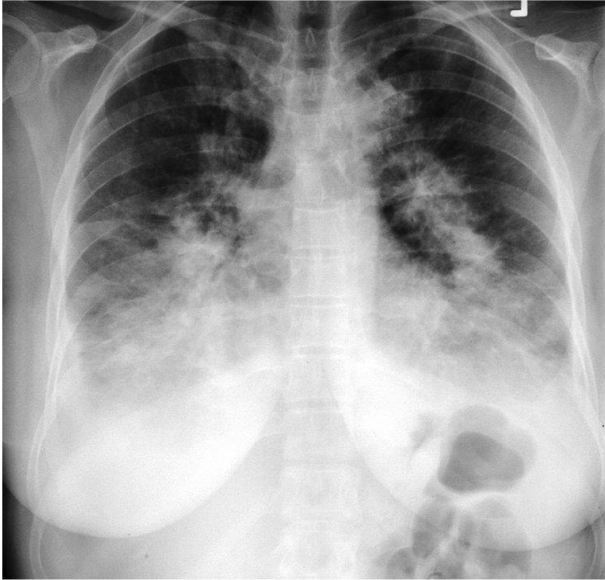


Case report



Clinical symptoms: female, 31 yrs



- fever, 39°C
- weight loss: 5 kg
- progressive dyspnea

Differential diagnosis

1. Infection
2. Extrinsic Allergic Alveolitis (EAA) or Hypersensitivity Pneumonitis (HP)
3. Diffuse Alveolar Damage/ Haemorrhage
4. Other disorder?



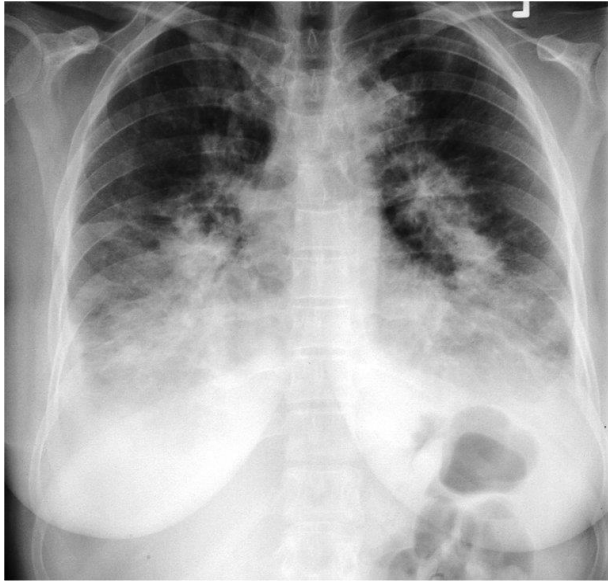
Next diagnostic procedure?

Differential diagnosis

1. Infection
2. Extrinsic Allergic Alveolitis (EAA) or Hypersensitivity Pneumonitis (HP)
3. Diffuse Alveolar Damage/ Haemorrhage
4. **Other disorder**

Next diagnostic procedure?

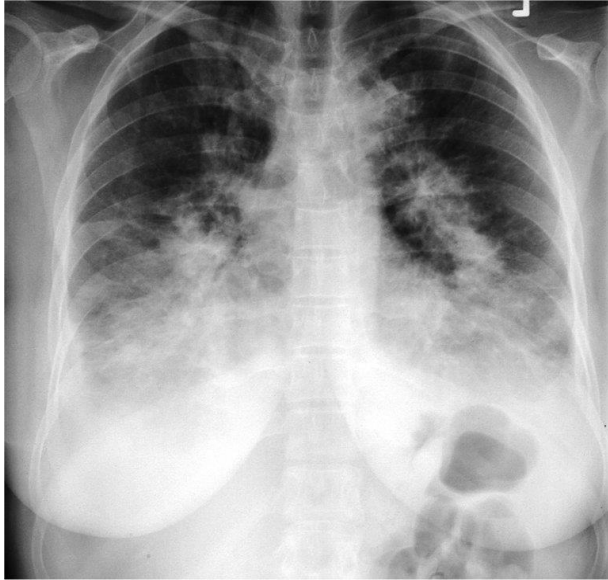
Next diagnostic procedure?



- BAL:
 - ☐ yes ☐ no
- Lung biopsy:
 - ☐ yes ☐ no



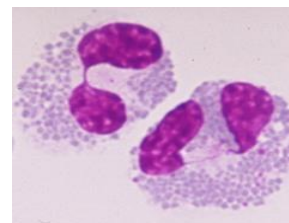
Next diagnostic procedure



- BAL:
☒ yes ☐ no
- Lung biopsy:
☐ yes ☒ no

BALF analysis results: female, 31 yrs

Total cell count	40x10 ⁴ /ml
Alveolar macrophages	42.1 %
Lymphocytes	7.6 %
Neutrophils	6.2 %
Eosinophils	45.0 %
Mast cells	1.0 %
Culture	negative
Fe-staining	negative



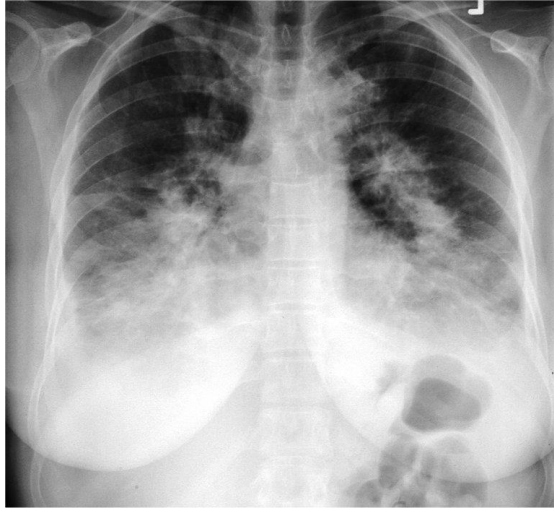
Differential diagnosis

1. Infection
2. Extrinsic Allergic Alveolitis (EAA) or Hypersensitivity Pneumonitis (HP)
3. Diffuse Alveolar Damage/ Haemorrhage
4. Acute Eosinophilc Pneumonia

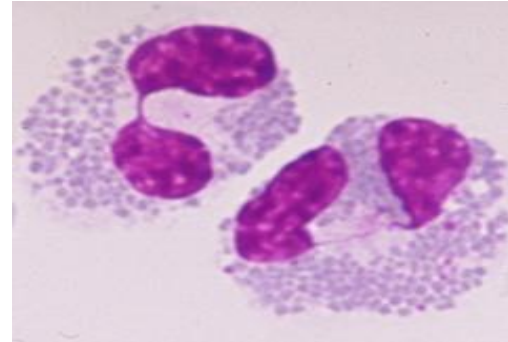


Which diagnosis is most likely?

Diagnosis: Acute Eosinophilic Pneumonia

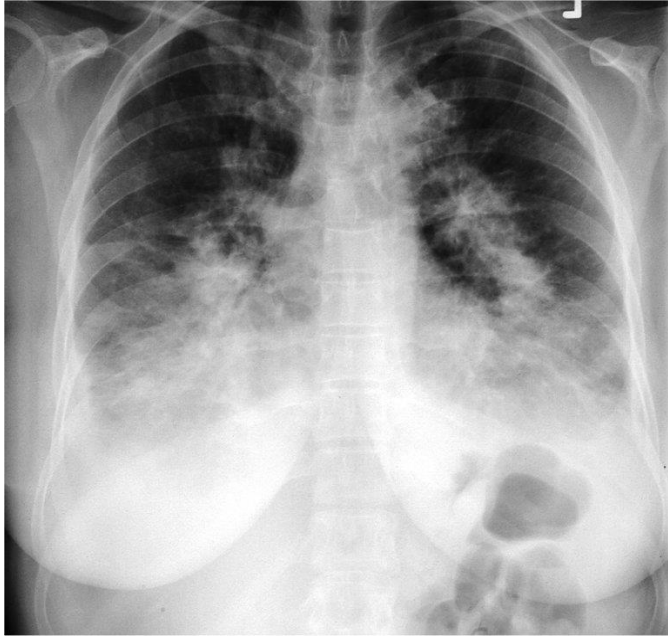


Chest radiograph



BALF profile 45%
eosinophils

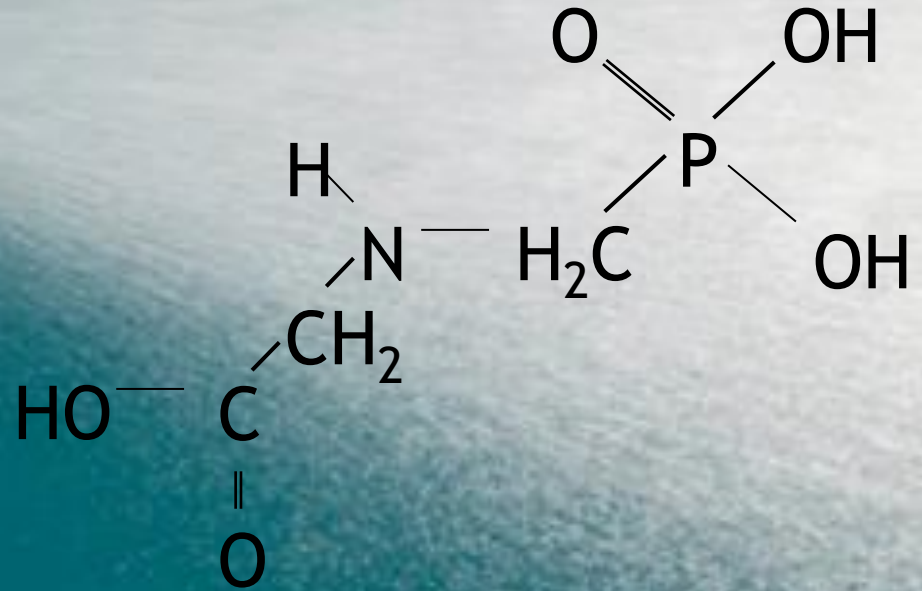
Clinical symptoms: female, 31 yrs



- fever, 39°C
- weight loss: 5 kg
- progressive dyspnea

Recent substantial
unprotected exposure
to herbicide Rondup

Herbicide Glyphosate-surfactant (‘Round-up’)

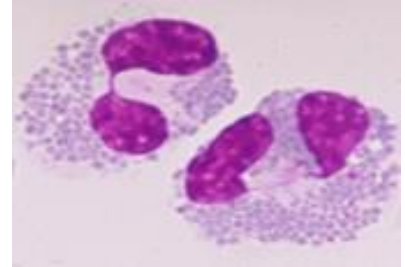


Herbicide Glyphosate-surfactant (‘Round-up’)



Works fast,
result
within
2-5 days!!!

Recent onset of smoking associated with AEP



Drugs causing pulmonary eosinophilia

Bleomycine

Captopril

Cocaine

Glafenine

Minocycline

Sulphasalazine

Radiological contrast media

NSAID's

Malaria prophylaxis

Methothrexate

Nitrofurantoin

Penicillins

Penicillamine

www.pneumotox.com



Helminths causing pulmonary eosinophilia

Ascaris lumbricoides

Ancylostoma duodenale

Brugi malayi

Clonotchis sinesis

Coccidioides immitis

Cutaneous larva migrans

Loa loa

Schistosoma spp.

Toxocara spp.

Wucheria bancrofti



Brugi malayi





Acute Eosinophilic Pneumonia (AEP)

- 1) may be mistaken for other diseases, such as infectious disorders
☐ yes ☐ no
- 2) may cause life-threatening respiratory failure
☐ yes ☐ no
- 3) diagnosis quickly with BAL
☐ yes ☐ no
- 4) is associated with recent onset of smoking
☐ yes ☐ no





Acute Eosinophilic Pneumonia (AEP)

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☒ yes ☐ no

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☒ yes ☐ no

3) diagnosis quickly with BAL

☒ yes ☐ no

4) is associated with recent onset of smoking

☒ yes ☐ no

PhD theses dealing with BAL

