

# **ESIM 2016**

# **Clinical Case Presentation**

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**LITHUANIA**

# Clinical case

- **Female, 38** years old, current smoker.
- Medical history: tonsillitis, pneumonia.
- No history of TB, DM, nor family history. No medication use. No travelling abroad.
  
- Cold with fever **3 weeks** ago.
- **For 2 weeks:**
  - fatigue,
  - gradual abdominal enlargement, pain and nausea,
  - dyspnea on exertion,
  - fever **38°C** and perspiration,
  - decreased urination.

# Clinical case

- **Physical:**
  - › 95 kg. Normal skin and mucosa.
  - › BT 36.6°C, HR 100 BPM, BP 120/70 mmHg.
  - › BR **26** BPM. Auscultation – vesicular sounds, no rales.
  - › Tense, painful abdominal enlargement.
  - › Leg edema (-).
- **EKG:** sinus rhythm, 105 BPM, partial RBBB.
- **Abdominal sonography:** hepatomegalia (18 cm), splenomegaly (14 cm), ascites.
- **Surgeon:** ascites without surgical emergency.

# Laboratory tests

## CBC:

- WBC – **10.6x10<sup>9</sup>/l** (4.0-9.8)
- Hgb – 151 g/l (117-145)
- MCV – **99** fl (78-96)
- MCH – **33.8** pg (26-31)
- PLT – **568x10<sup>9</sup>/l** (140-450)

ESR – **53** mm/h (<15).

## Urine test:

- prot. **0.3** g/l
- gluc. – 5.5 mmol/l
- leuk – 8-7/HPF
- mucus – 3b.

Blood gasses – mild hypoxemia

Electrolytes, creatinine, α-amylase, ALT, AST, ALP, cholesterol – n.

Protein – **58** g/l (66-83)

LDH – **833** U/l (125-243)

CRP – **198.9** mg/l (<5)

Fibrinogen **6.72** g/l (2-4)

APTT, SPA, INR – normal

# Making a preliminary diagnosis

## Dyspnea

- pneumonia
- left ventricular failure
- PATE
- ascites
- other?

## Ascites

- liver failure
- heart failure
- infection
- malignancy
- other?

## Fever

- infection
- paraneoplastic syndrome
- other?

Further work-up plan???

# Work-up

**Ascitic tap:** yellowish, SG 1.005, pro **45** g/l, gluc. 4.5 mmol/l.

Microscopy:

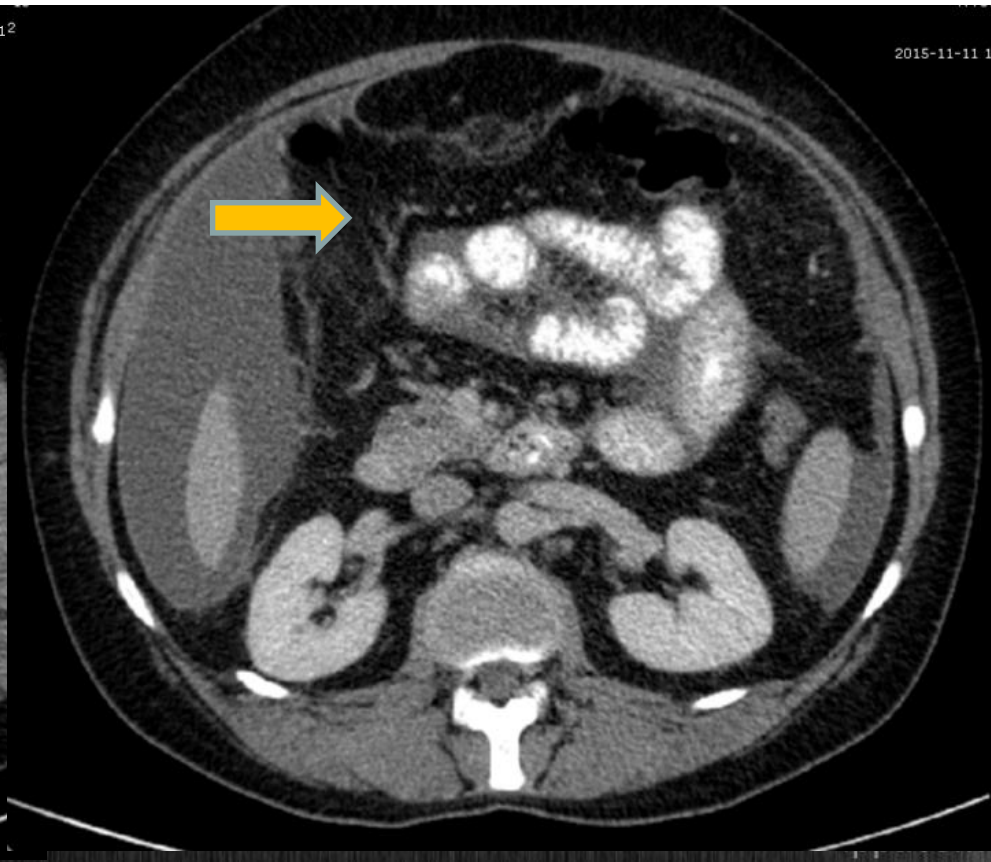
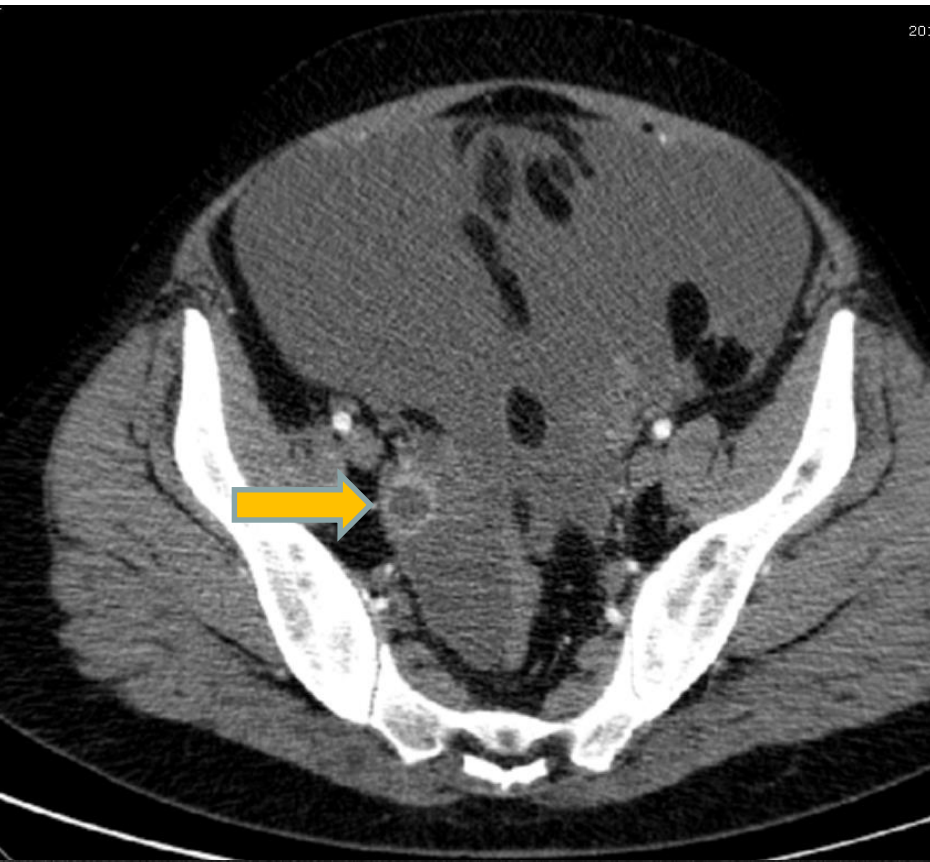
- WBC 5-6 /LPF, RBC 10-12 /LPF,
- collapsed cells,
- inflammatory components,
- piles of atypical cells with varied size nuclei and basophilic cytoplasm.
- AFB (-).

**EFGDS:** gastroesophageal and duodenogastral reflux, hiatal hernia, erythemic gastropathy.




Gynecologist (TVE): **two-chamber cyst ~2.2 cm in the right ovary.**

# Abdominal and pelvic CT

- Ascites.
- Infiltrated mesentery with multiple lymph nodes.
- Right ovary cystic structure.
- Right pleural effusion.



# Initial treatment

- Omeprazole PO
- Bemiparin SC
- Ciprofloxacin PO  fever ended
- **Diuretics** (Furosemidum & Spironolactone PO)
  -  **no effect** – gained 5 kg in 4 days
  -  Ascites drainage **6.5 L** in 6 days.

Transferred to Vilnius University Hospital for further investigation.



# Dynamics and further work-up

- Urine test, LDH – n.
- HbsAg, anti HCV – neg.
- Protein **51.9 g/l** (64-83):
  - albumin – 42.6% (48-61)
  - $\alpha_1$  – 7.4% (2.5 - 5)
  - $\alpha_2$  – **21.0%** (8-11)
  - $\beta_1$  – 8.7% (3.1-8.5)
  - $\beta_2$  – 6.6% (2.5-5.5)
  - $\gamma$  – 13.7% (16-25).
- **CA 125 – 310 kU/l** (<35) – possible causes???
- CXR – no pathology.
- Echocardiography – slightly elevated PA resistance.
- Ascites punctate :
  - WBC **1.87**x10<sup>9</sup>/l , Neu – 8%, Ly – **89%**.
  - NO ATYPICAL CELLS.
- Pelvic MRI:
  - » Ascites
  - » **Collapsed right ovary cyst**
  - » **Diffuse mesentery thickening and contrast media accumulation with signs of restriction**
  - » **Left obturator lymph node structure abnormality**

## Diagnostic laparoscopy + peritoneum biopsy:

- › multiple peritoneal, intestinal, hepatic nodules < 1 mm.

## Histology:

multiple epithelioid **granulomas** with multinucleated **giant foreign-body and Langhans-type cells** and **central necrosis**.

\*No acid-resistant bacteria has been found, thus appropriate clinical correlation and additional microbiological tests are needed.

## Clinical diagnosis:

Peritoneal and lymph node tuberculosis. Mesenteric lymphadenitis. Ascites. GERD.

- Transferred to Infectious diseases and TB hospital:
  - HIV (neg.), FBS, FCS, ...
  - Specific treatment
  - Contact person screening:
    - **husband – active pulmonary TB**, probably ~ 6 months (fatigue).

# Take home messages

- ✓ TB ascites presentation is non-specific.
- ✓ Paracentesis technique is of great importance.
- ✓ TB ascitic tap: **500-2500/ml cells + Ly > 70 % + protein ≥30 g/l.**
- ✓ Disseminated pelvic TB comprises 1-3% of all forms of TB.
- ✓ Approximately 15%-25% of cases with abdominal TB have concomitant pulmonary TB.
- ✓ **CA 125 commonly is elevated in pelvic TB.**
- ✓ Peritoneum nodules:
  - miliary TB – about 1 – 2 mm, slightly raised and whitish;
  - carcinomatosis – more vascular and more irregular.
- ✓ TB Dx – typical granuloma formation (epithelioid histiocytes and mononuclear inflammatory cells) in the absence of other Dx.

# Precedent

## ABDOMINAL SURGERY

Official Journal of the American Society of Abdominal Surgeons, Inc.

*This article originally appeared in the Winter 2013 / Spring 2014 issue of the Journal.*

### **Primary Peritoneal Tuberculosis with Ascites and Elevated CA 125 Mimicking Advanced Ovarian Carcinoma: Case Report.**

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**Thank you!**  
**Welcome to Lithuania!**

