

Rostov State Medical University department of internal medicine #1

Case presentation

Fever of unknown origin

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Patient A., 26 years old

Complaints:

temperature 38,0 – 38,5°C, general weakness, fatigue

Patient history:

The first symptoms appeared in December 2015, when the temperature rise varied from 37 to 38.5° C for a few weeks

Routine diagnostic techniques:

- ✓ Patient medical history surgery, invasive surgery, drug taking, penitential period, travels, injuries, drug intake, and fever in family history no previous history
- ✓ Physical examination is within normal
- ✓ Thoracic organs X-ray without pathological findings

 GBA + reticulocytes

 Biochemical blood tests

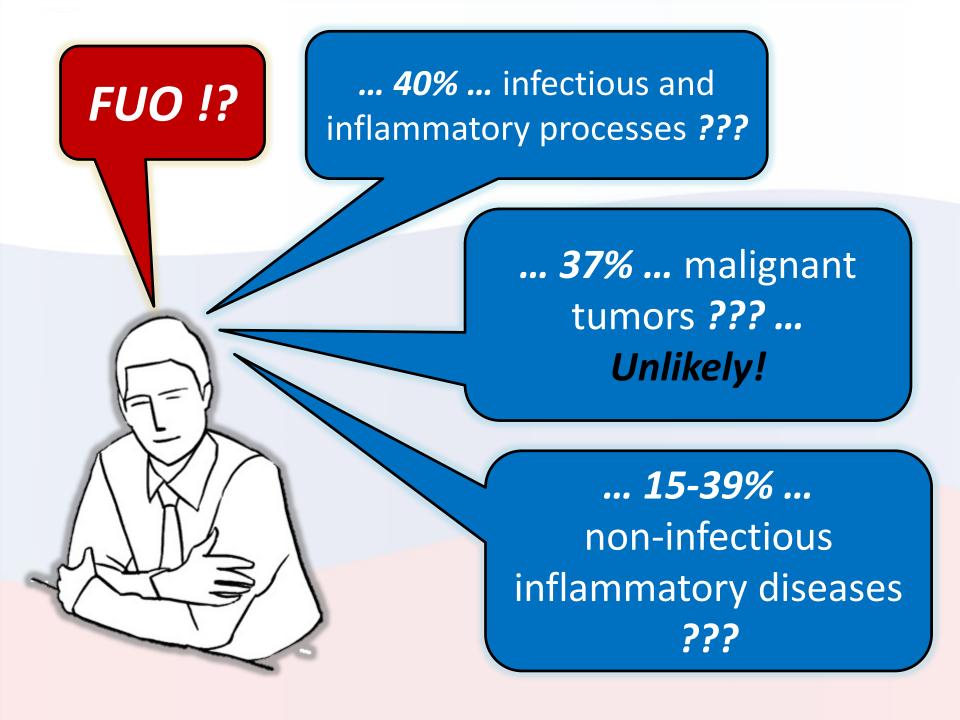
 CUA

 WNL
- ✓ Microbiological blood and urine tests without abnormal microflora
- ✓ Antinuclear and rheumatoid factors WNL

✓ Serological diagnosis - of HIV, CMV, Ebstein-Barr virus, hepatitis viruses B and C - *negative*



- ✓ What is the main syndrome?
- ✓ What diseases should we exclude in the first place?
- ✓ What is the algorithm for further actions?
- ✓ What diagnostic techniques should be assigned?



Infectious and inflammatory processes ???

- ✓ Tuberculosis
- ✓ Suppurative diseases of the abdominal cavity
- ✓ Infective endocarditis
- Osteomyelitis
- **√** ...

Non-infectious inflammatory diseases ???

- ✓ Rheumatic diseases (SLE, pseudorheumatism, ...)
- ✓ Adult Still disease
- √ Vasculitides
- ✓ Crohn's disease, ulcerative colitis
- **√** ...

- ✓ abdomen ultrasound
- ✓ kidneys, bladder, prostate ultrasound
- √ heart ultrasound
- ✓ thyroid ultrasound

without abnormal changes

- TSH 1.34 mIU / L (Norma 0.34-5.60)
- C-reactive protein <u>6.9 mg / L</u> (Norma 0-5.0)
- CRP-2 (high sensitivity) 18 000 mg / L (Norma is up to 3000)
- antistreptolisin O 33,8 IU / ml (Norma up to 250)
- antibodies to deoxyribonuclease 75,8 IU / ml Norma
- IgE 61 IU (Norma < 100)
- IgA 3.21 g / L (Norma 0.3-3.5)

- √ Rheumatoid factor <20 IU / ml (N up to 25)
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- ✓ Antibodies to double-stranded DNA (IgG) 17.6 IU / ml
- ✓ **LE-cells** not found
- **✓ ANA-screen** 0.30 COI (<1)
- ✓ Antibodies to phospholipids IgM 9.8 U / mL (<10)</p>
- ✓ Antibodies to cardiolipin 9.10 rel. u / ml (<12)</p>

HLA-B27 has been found!

X-rays of hands: There is some periarticular osteoporosis, singular cystic lucency in distal phalanges, subchondral sclerosis.

Ultrasonography of shoulder joints:

Ultrasound signs of shoulder joints AD on both sides. Subdeltoid and subacromial bursitis on both sides.

X-ray of knee joints:

Irregular narrowing of joint gaps. Almost non-expressed subchondral sclerosis of articular surfaces. Some sharpening of intercondylar eminences. Non-identified muscular-destructive changes.

Conclusion: X-ray signs of 2-sided osteoarthrosis of 1-2 degrees

Feet X-ray:

Slight regional osteoporosis, subchondral sclerosis. Narrowing of joint gaps of interphalangeal joints.

X-ray of ileosacral joints:

with joint gaps and expressed subchondral sclerosis of 2nd degree

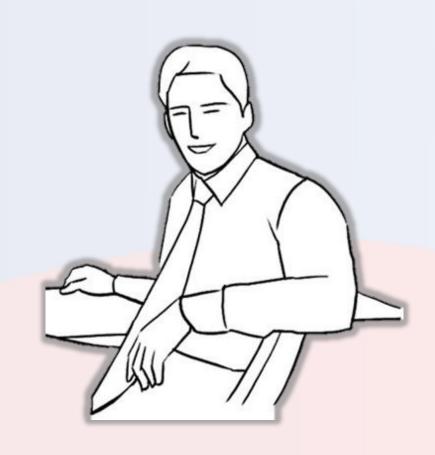
Diagnosis criteria (ASAS, 2009):

Sacroiliitis on the basis of imaging

- + HLA B27
- + CRP upregulation



Ankylosing spondylitis, HLA B27+, 2nd degree, JI 0



Treatment

- ✓ basic anti-inflammatory therapy Sulfasalazine 500 2 pills twice a day
- ✓ nonsteroidal anti-inflammatory drugs

 Ibuprofen twice a day
- ✓ Ketorol I.M.
- ✓ Vitamins **B12 I.M., Complivit** Calcium **D3**
- **✓** Physical therapy
- ✓ Physiotherapy treatment, massage



Thank you for your attention!