

**Research Institute of Urology
Moscow,
Russian Federation**

Case discussion

Stepan Krasnyak

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**ФГБУ «НИИ урологии»
Минздрава России**



Patient K. 39 y.o.

- Complaints:
 - Inability to father a child within 1 year of sexual activity without contraception.
 - Pain in the perineum, lower abdomen, scrotum.
 - Mucosal discharge from the urethra



Personal history

- Chronic prostatitis for 10 years.
- Chlamydia 10 years ago,
- Ureaplasma infection 5 years ago



Disease history

- Suffers from chronic prostatitis for 10 years, after undergoing chlamydial infection (treated in STI clinic with a positive effect). Relapses 2-4 times a year.
- Antibacterial self-treatment relieves symptoms. Seek refers only in case of failure of self-treatment.
- Last relapse was 2 months ago.
- Prescribed AB: ciprofloxacin, ofloxacin, azithromycin, norfloxacin without effect.
- Examined in STI clinics. The results are shown below.



Clinical status:

- Generally: General condition is satisfactory. CV and Resp system are OK. GIT is OK.
- Locally:
 - Clear mucous discharge from urethra. Testis and epididymis organs unremarkable
- Per rectum:
 - moderately enlarged prostate, asymmetrical due to increased right lobe, which defines land seal groove smoothed right lung. Prostate slightly painful, most in the right lobe.



Infertility diagnosis

- Sperm analysis:
 - Volume: 4 ml
 - Concentration: 25 mil/ml
 - Motility (A+B): 10%; C – 3% Immotile: 87%
 - Morphology (normal): 45%
 - Vitality: 75%
 - Agglutination: ++
 - WBC: 2,1 mil/ml
 - ASAB IgG in sperm: 32% (N- < 50%)
- Karyotype: 46, XY
- AZF deletion: neg
- Hormones: OK
- Varicocele: neg



Cultural findings

- Semen culture: negative
- Urine culture: negative

- PCR for Chlamydia, Mycoplasma, Ureaplasma, Trichomonas, Gardnerella: negative



Urinalysis

- Colour: Light-yellow
- pH): 6.0
- Density: 1.020
- PRO: 0,066
- GLU: neg
- KET: neg
- BIL: neg
- RBC: 1-0
- WBC: 10-15
- Epithelium: 1-2
- Cylinders: neg
- Bacteria: neg



Ultrasound

- Kidneys are OK.
- Bladder examined at volume 200 ml. All is OK.
PVU = 40 ml.
- Prostate: $V=30 \text{ cm}^3$. Echostructure is heterogeneous due to the large number of hyperechogenic inclusions predominantly in the right lobe without echo shadows.
- Paraprostatic vein plexus expanded to 3-5 mm.
- Congestive changes in the prostate.



Prostate secretion

- WBC: 20-30
- RBC: 0-1
- Epithelium: 1-3
- Lecithin granules:
++++
- Gonococci: neg
- Trichomonas: neg
- Fungi: neg
- Bacteria: small cocci
in small amount



- Ds: Male Infertility (1 year).
Asthenoteratozoospermia. Chronic abacterial prostatitis (category IIIA).



Questions to the auditorium.

- What are the best diagnostic and treatment approach to this patient?



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Спасибо за внимание!



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