

"SPECIFIC CHARACTERISTICS OF THE FOURTH PREGNANCY IN AN HIV-POSITIVE PATIENT AFTER THE HISTORY OF PULMONARY TUBERCULOSIS WITH LOW ADHERENCE TO ARV THERAPY"

Lesia Ostapiuk

Obstetrician-gynecologist, Candidate of Medical Science,
Lviv Oblast Centre for Public Health,
Lviv, Ukraine

15 September 2020



MARYANA, 36 YEARS

- HIV (+) status since 2009 registration number 961/257 dated 11.09.2009 (code 109.1) during the first pregnancy of 31 weeks.
- Diagnosis: Z 21 (Clinical stage I). Asymptomatic carrier. The 1st pregnancy, 31 weeks.
- November 23, 2009 CD4 count 716 μmol /L, viral load 5,960 RNA copies /mL.
- Antibodies to hepatitis B and C are absent.
- November, 2009 prevention of mother-to-child transmission of HIV has begun (AZT/3TC/LPV/rtv).



THE FIRST PREGNANCY AND DELIVERY

- December 21, 2009 viral load 63 RNA copies / mL
- January, 2010 childbirth through the natural birth canal.
- PMTCT for a child AZT 7 days
- HIV (-) status of the child
- PMTCT AZT/3TC/LPV/rtv after delivery was discontinued for the woman.



THE SECOND PREGNANCY

- April, 2012 the 2nd pregnancy, 17 weeks
- April 19, 2012 viral load level 2,016 RNA copies / mL
- Prevention of mother-to-child transmission of HIV was initiated (AZT/3TC/LPV/rtv).
- August 1, 2012 viral load less than 20 RNA copies / mL.



THE SECOND PREGNANCY AND DELIVERY

- September, 2012 delivery through the natural birth canal
- PMTCT for a child AZT 7 days
- HIV (-) status of the child
- The woman was offered to continue AZT/3TC/LPV/rtv after the delivery, but she refused.



THE THIRD PREGNANCY

- May, 2014 the 3d pregnancy, 17 weeks
- May 21, 2014 CD4 count 427 μmol / L
- May 21, 2014 viral load level of 63 RNA copies / mL
- May, 2014 the following ART regimen was initiated: ABC/3TC/NVP
- Problems with admission of her HIV positive status
- September, 2014 at the request of the pregnant woman, a rapid HIV test was conducted (with positive result).



THE THIRD PREGNANCY AND DELIVERY

- October, 2014 delivery through the natural birth canal
- PMTCT for a child AZT 7 days
- HIV (-) status of the child
- The woman discontinued ABC/3TC/NVP after the delivery in spite of doctors' recommendations to continue ART.

4 years without antiretroviral therapy (ARTT)

- 4 years have passed. The patient was not receiving ART.
- In June 2018 she started complaining of general weakness, cough, fever above 37, weight loss of 6 kilograms in 3 months.
- September, 2018 the patient turned to the clinic at the place of residence for medical care.



What examinations would you recommend?

- A. Chest X-ray.
- B. CBC, common urine analysis + biochemical blood test
- C. Xpert MTB-RIFD.
- D. Bacterioscopy for the presence of AFB.
- E. Palpation of the peripheral lymph nodes, ultrasound of retroperitoneal and peripheral lymph nodes
- F. All answers are correct.



Pulmonary TB

- September, 2018 Xpert (+)
 - September, 2018 Diagnosis B 20.0 (IV clinical stage) (FDTB)
 pulmonary tuberculosis MBT + (PCR +) Resist (-)
 - September 21, 2018 April 18, 2019 the patient received antituberculosis therapy (H R Z E)
 - September 21, 2018 co-trimoxazole treatment initiated October 3, 2018 - the patient started ART regimen TDF/FTC/EFV
 - August 2019 the patient discontinued her ART.



THE FOURTH PREGNANCY

- November 2019 the patient applied for ART in connection with the 4th pregnancy
- November 22, 2019 CD4 count 153 μmol / L
- Viral load 32,375 RNA copies / mL
- November, 2019 the following ART regimen was initiated: TDF/FTC/LPV/rtv.



Complicated pregnancy

- On December 24, 2019, at 25 weeks of gestation, the patient was referred to the Department of Anesthesiology and Intensive Care of the Lviv Regional Clinical Hospital
- Complaints on admission cough, shortness of breath, fever above 37.5, jaundice and itching of the skin
- \bullet The level of bilirubin in the blood is 230 μ mol / L
- The level of alkaline phosphatase 106 IU /L (at a rate of 30-85 IU /L)
- Antibodies to hepatitis B and C are absent.



Your variant of diagnosis?

- A. Recurrent tuberculosis
 - B. Pneumocystis pneumonia
 - C. Chronic hepatitis C.
 - D. Complicated pregnancy (hepatosis of pregnancy)
 - E. Another option for diagnosis.



Hepatosis of pregnancy

- Complications of pregnancy (hepatosis of pregnancy)
- ART was temporarily discontinued
- The patient received detoxification, choleretic, anti-inflammatory, anti-allergic therapy
- After the patient's condition improved, ART (TDF / FTC / LPV / rtv) was restored.

The fourth delivery

March 2020 - the 4th delivery took place through the natural birth canal

- The child received AZT 28 days
- HIV-negative status of the child (PCR result twice negative)
- The baby will be examined withy ELISA after reaching 18 months of age
- May 2020 the patient stopped taking ART again
- Currently, the patient does not visit a doctor and does not receive ART
- The patient has a low adherence to ART, despite her life experience (history of tuberculosis, complicated fourth pregnancy).



ACKNOLEDGEMENTS

Dr. Maryana Sluzhynska

Dr. Iryna Chayka

Dr. Olena Pavlyshyn

Dr. Marta Vasylyev

Dr. Iryna Ben

Dr. T.B. Saranets

Dr. M. Kutynska

Dr. L.V. Knyshchuk



Thank you!!!

