

# TAJIKISTAN'S EXPERIENCE WITH SHORTER MODIFIED TREATMENT REGIMENS IN PREGNANCY

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## CASE #1

A patient from a well-to-do family. She got pregnant during treatment provided as part of the mSTR operational research



## CASE #1

- A 32-year-old patient, new MDR-TB case, HIV-negative
- No comorbidities
- Pulmonary TB with unilateral involvement
- Xpert Ultra MTB+/Rif res; LPA FQ - susceptible, culture positive
- Susceptible to Lfx, Mfx, Am, Bdq, Cfz, Lzd, and Dlm
- In September 2021, she started on treatment with the following regimen:  
39wLfx-Bdq-Lzd-Cfz-Cs

# CULTURE CONVERSION AFTER 1 MONTH OF TREATMENT

Mycobacteriology									
Код участника									
0064									
Mycobacteriology									
Month	B1 . Date of specimen Collection	B2 . Type of specimen	B3 . Smear result	C1 . Type of Xpert/MTB/RIF	C2 . Xpert result	D1. LPA-FQ	E1. Culture on solid media	F2. Culture on liquid media	
0	9/13/2021	1-sputum	1- positive	1- Ultra	1 - MTB+ Ri...	2 - MTB + ...	1- MTB com	1- MTB com	
1	10/15/2021	1-sputum	1- positive				1- MTB com	1- MTB com	
2	11/18/2021	1-sputum	2- negative				3- no growth	3- no growth	
3	12/21/2021	1-sputum	2- negative				3- no growth	3- no growth	
4	1/19/2022	1-sputum	2- negative				3- no growth	3- no growth	
5	2/17/2022	1-sputum	2- negative				3- no growth	3- no growth	
6	3/17/2022	1-sputum	2- negative				2- negative	2- negative	
7	4/20/2022	1-sputum	2- negative				3- no growth	3- no growth	
8	5/20/2022	1-sputum	2- negative				3- no growth	3- no growth	
9	6/16/2022	1-sputum	2- negative						

## CASE #1

- At month 4 of treatment - complaints of severe pain in the legs. Following the request of the Concilium, Lfx was replaced with Mfx. Patient's condition improved, pain in the legs did not recur.
- At month 6 of treatment, the patient got pregnant. Anemia developed at month 8. Following the request of the Concilium and considering an early and persistent conversion, as well as the risk of anemia worsening during pregnancy, Lzd was discontinued, and the patient received treatment with 4 drugs.
- Treatment outcome - cured.

# CASE #1

## Clinical evaluation form

Код участника

0064

### Clinical evaluation

Month of treatment	Date of evaluation	Hemoglobin (g/dL)	Platelets (mm <sup>3</sup> )	Leukocytes (mm <sup>3</sup> )	Neutrophils (mm <sup>3</sup> )	QTcF	Potassium	Creatinine	Weight	Chest X-ray	Pregnancy test	COVID19
0	9/14/2021	102	258	8.6	68	363	4.6	54	50	1 - O...	2- Negative	3 - H...
1	10/14/21					373	3.8	64	54		3- not performed	3 - H...
2	11/19/2021	114	274	7.0	50	440	5.3	70.4	56		3- not performed	3 - H...
3	12/20/2021	116	286	8.2	58	411	4.8	76.4	58		2- Negative	3 - H...
4	1/19/2022	100	286	6.6	62	446	5.4	80.3	58		3- not performed	3 - H...
5	2/17/2022	102	236	6.3	58	423	5.2	82.1	59		3- not performed	3 - H...
6	3/17/2022	123	260	6.6	59	446	5.2	84	58	1 - O...	3- not performed	3 - H...
7	4/18/2022	102	268	6.2	62	440	4.9	81	59		1- Positive	3 - H...
8	5/17/2022	95	301	6.8	66	423	4.4	81	59		1- Positive	3 - H...
9	6/17/2022	115	298	10.8	60	430	3.9	82.1	60	3 - H...	3- not performed	3 - H...
											3- not performed	

## CASE #1

- The patient had natural delivery at term, gave birth to a healthy baby boy, 3230 g.
- The baby is now six months old and on mixed feeding. His development corresponds to the age norm.
- The baby's weight at month 1 was 4,500 g, at month 2- 5200 g, and at 3.5 months - 6,400 g.
- At present, the baby's weight is 7900 g.



## **CASE # 2**

# **PREGNANT PATIENT TREATED AS PART OF THE OPERATIONAL RESEARCH OF MODIFIED SHORTER MDR-TB TREATMENT REGIMENS**





## CASE # 2

- A 22-year-old patient, new MDR-TB case, HIV-negative
- Asthenic type of physique, low nutrition.
- No comorbidities
- Pulmonary TB with unilateral involvement
- Xpert Ultra MTB+/Rif res; LPA FQ - susceptible, culture negative
- Pregnancy – 2 months
- In August 2021, she started on treatment with the following regimen:  
39wLfx-Bdq-Lzd-Cfz-Cs

## CASE # 2

This patient was detected with the use molecular methods, her cultures were negative. Sputum conversion was achieved after the first month of treatment.

### Mycobacteriology

Код участника

0051

#### Mycobacteriology

Month	B1 . Date of specimen Collection	B2 . Type of specimen	B3 . Smear result	C1 . Type of Xpert/MTB/RIF	C2 . Xpert result	D1. LPA-FQ	E1. Culture on solid media	F2. Culture on liquid media
0	7/16/2021	1-sputum	1- positive	1 - Ультра	1 - MTB+ Ri...	2 - MTB + ...	3- no growth	3- no growth
1	9/2/2021	1-sputum	9 – no result				3- no growth	3- no growth
2	10/10/2021	1-sputum	2- negative				9- not perf.	9- not perf.
3	11/2/2021	1-sputum	2- negative				3- no growth	9- not perf.
4	11/26/2021	1-sputum	2- negative				3- no growth	3- no growth
5	12/24/2021	1-sputum	2- negative				3- no growth	3- no growth
6	1/13/2022	1-sputum	2- negative				3- no growth	3- no growth
7	2/28/2022	1-sputum	9 – no result					
8	3/21/2022	1-sputum	2- negative				3- no growth	3- no growth
9	5/13/2022	1-sputum	2- negative				9- not perf.	9- not perf

# CASE # 2

## Clinical evaluation form

Код участника

0051

### Clinical evaluation

Month of treatment	Date of evaluation	Hemoglobin (g/dL)	Platelets (mm <sup>3</sup> )	Leukocytes (mm <sup>3</sup> )	Neutrophils (mm <sup>3</sup> )	QTcF	Potassium	Creatinine	Weight	Chest X-ray	Pregnancy test	COVID19
0	8/3/2021	112	305	13.4	60	339	4.7	60	48	1 - O...	1- Positive	2- От...
1	9/2/2021	120	346	8.8	62	387	4.3	58	51		3- not performed	3 - H...
2	10/18/2021	122	298	9.4	58	418	5	68	52		3- not performed	3 - H...
3	11/18/2021	100	288	7.4	66	392	4.4	84	55		3- not performed	3 - H...
4	12/16/2021	90	292	7.8	59	409	4	90	56		3- not performed	3 - H...
5	1/13/2022	100	228	8.4	60	438	5.7	75.8	56		3- not performed	3 - H...
6	2/28/2022	110	268	5.8	58	401	4.2	76.4	57	1 - O...	3- not performed	3 - H...
7	3/25/2022	102	298	6	62	409	4.4	68	52		3- not performed	3 - H...
8	4/23/2022	112	301	7.6	62	430	5.2	94	52		3- not performed	3 - H...
9	6/16/2022	110	312	8.8	58	428	5.1	67.8	53	3 - H...	3- not performed	3 - H...
10	6/2/2022	100	290	8.8	56	409	4.8	70	53		3- not performed	
											3- not performed	

## CASE # 2

- Prophylactic treatment included iron supplements, folic acid, and multivitamins
- Treatment was well tolerated; no SAEs or Grade 3-4 AEs were reported.
- The patient had natural delivery at term (in March 2022) - at the 7<sup>th</sup> month of treatment she gave birth to a healthy baby boy of 3100 g.
- Treatment outcome - cured in June 2022



## CASE # 2

- Now the child is 13-month-old. He is active, walks independently. Until the age of 3 months, he was exclusively breastfed, afterwards - on mixed feeding.
- Now the child's weight is 9600 g, and his height is 76 cm.



**Thank you for your attention!**

