

# Clinical Case Scenario

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Uzma Khan  
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32 year old female with no past history of TB or other comorbid conditions was diagnosed with RR-TB through GeneXpert testing and subsequent 1<sup>st</sup> and 2<sup>nd</sup> line LPA results showed resistant mutations to R and H. She is being assessed for eligibility for all-oral shorter regimen. Her clinical exam was unremarkable and baseline laboratory results were all normal. Her chest x-ray shows extensive bilateral disease with a small right-sided cavity.

The program decides the patient is eligible for all-oral shorter regimen. What would be the next step?

The patient is enrolled on Lfx-Bdq-Lzd-Cfz-Z for a duration of 9 months. She is followed up at an out-patient TB clinic per monitoring schedule.

What would you assess at each follow up?

How frequently will you evaluate the patient?

Where would you record this information?



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Patient is assessed at month 5 of her visit.



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	Baseline Visit	Week 2	Month 1	Month 2	Month 3	Month 4	Month 5
<b>Clinical evaluation</b>							
Vital signs	wnl		wnl	wnl	wnl	wnl	wnl
Brief peripheral neuropathy screen (BPNS)	normal		normal	normal	normal	normal	normal
Visual acuity and colorblindness screen	normal		normal	normal	normal	normal	normal
Assessment and follow-up of adverse events	normal assessment	normal assessment	Grade 1 anemia	Grade 1 anemia	Grade 1 anemia	Grade 1 anemia	Grade 1 anemia
Weight	46 kg	46kg	45kg	44kg	43kg	43kg	43kg
<b>Bacteriological testing</b>							
Smear	3+		2+	1+	1+	1+	1+
Culture	positive		positive	positive	positive	positive	pending
Xpert MTB/RIF	RR detected						
LPA (Hain GenoType MTBDRsl)	Mutations to R and H, none to SLI and FQ		Not done		Not done		
Culture-based first-line DST	R to H and R		R to H and R		Not done		
Culture-based second-line DST	S to SLI and FQ		S to SLI and FQ		Not done		
<b>Laboratory testing</b>							
ECG	Normal rate, rhythm, QtcF=400	Normal rate, rhythm, QtcF=420	Normal rate, rhythm, QtcF=420	Normal rate, rhythm, QtcF=440	unchanged	unchanged	unchanged
Full blood count	Hb 12.5g/dl, rest wnl	Hb 11g/dl, rest wnl	Hb 10.5g/dl, rest wnl	Hb 10.5g/dl, rest wnl	unchanged	Hb 10g/dl, rest wnl	Hb 10g/dl
Liver function tests (AST, ALT)	wnl	Not done	wnl	wnl	wnl	wnl	Not done
Serum creatinine	wnl						
Serum potassium	wnl						
Hepatitis Bs Antigen	non-reactive						
Hepatitis C Antibody	non-reactive						
HbA1c	5.2 (wnl)						
Pregnancy test	negative						
HIV testing	non-reactive						
Chest X-Ray	Extensive disease						unchanged

Given the above findings, what will you recommend?

Where would you record this information?



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