MYCOBACTERIUM TUBERCULOSIS WHOLE GENOME SEQUENCING REPORT



NOT FOR DIAGNOSTIC USE

Patient Name	DIANE EVANS	Patient ID	34567890
Birth Date	1887-04-04	Location	LONDON
Sample Type	SPUTUM	Sample Date	1916-12-30
Reporting Lab	OXFORD	Report Date	1917-01-09

Summary

The specimen was positive for **Mycobacterium tuberculosis**. It is predicted to be **resistant to Ethambutol**, **Pyrazinimide**, **Isoniazid**, **Rifampin**, **and Streptomycin**. It belongs to a cluster, suggesting **recent transmission**

Organism The specimen was positive for Mycobacterium tuberculosis

Drug Susce	ptibility		
		the detection of known <i>M.</i> ring genetic mutations	 □ No drug resistance predicted □ Mono-resistance predicted □ Multi-drug resistance predicted ☑ Extensive drug resistance predicted
Drug class	Prediction	Drug	Resistance Gene (Amino Acid Mutation)
First-line I	Resistant	Ethambutol	emb (M306I)
		Pyrazinimide	pncA (T47A)
		Isoniazid	katG (S315T)
		Rifampin	rpoB (S531L)
Second-line		Ciprofloxacin	No resistance mutation detected
	Sensitive	Moxifloacin	No resistance mutation detected
		Amikacin	No resistance mutation detected
		Kanamycin	No resistance mutation detected
		Capreomycin	No resistance mutation detected
	Resistant	Streptomycin	rpsL (K43R)

Patient ID: 34567890 | DATE: 1917-01-09 | LOCATION: Oxford

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Relatedness	Number of prior matching isolates	
Likely Related (< 5 SNPS apart)	2 isolates	
Possibly Related (6 to 30 SNPS apart)	2 isolates	
Oxford 1	1997645	
Oxford 89187	6	
current patient		
London 3314	46	
0.2 Oxford 123456		