MYCOBACTERIUM TUBERCULOSIS WHOLE GENOME SEQUENCING REPORT



NOT FOR DIAGNOSTIC USE

Patient Name	GORDON COLE	Patient ID	23456789
Birth Date	1862-12-12	Location	CAMBRIDGE
Sample Type	SPUTUM	Sample Date	1916-12-26
Reporting Lab	OXFORD	Report Date	1917-01-06

Summary

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

Organism The specimen was positive for Mycobacterium tuberculosis

Drug susceptibility			
tuberculosis drug re		he detection of known <i>M</i> . ng 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)
Sensitive First-line Resistant	Sensitive	Ethambutol	No resistance mutation detected
	Scristive	Pyrazinimide	No resistance mutation detected
	Posistant	Isoniazid	katG (S315T)
	Resistant	Rifampin	rpoB (S531L)
Second-line Sensitive		Streptomycin	No resistance mutation detected
		Ciprofloxacin	No resistance mutation detected
	Sensitive	Moxifloacin	No resistance mutation detected
	Sensitive	Amikacin	No resistance mutation detected
		Kanamycin	No resistance mutation detected
		Capreomycin	No resistance mutation detected

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Relatedness	Number of prior matching isolates	
ikely Related (< 5 SNPS apart)	2 isolates	
Possibly Related (6 to 30 SNPS apart)	2 isolates	
Oxford	1997645	
Oxfor	rd 891876	
curren	nt patient	
London 33140	6	
O.2Oxford 1	123456	