MYCOBACTERIUM TUBERCULOSIS WHOLE GENOME SEQUENCING REPORT



NOT FOR DIAGNOSTIC USE

Patient Name	ANDY BRENNAN	Patient ID	45678901
Birth Date	1877-05-26	Location	LONDON
Sample Type	SPUTUM	Sample Date	1917-01-01
Reporting Lab	OXFORD	Report Date	1917-01-11

Summary

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

Organism

The specimen was positive for Mycobacterium tuberculosis

Drug Susce	ptibility		
Drug susceptibility is predicted by the detection of known <i>M.</i> tuberculosis drug resistance conferring 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)
Sensiti First-line		Ethambutol	No resistance mutation detected
	Sensitive	Pyrazinimide	No resistance mutation detected
		Rifampin	No resistance mutation detected
	Resistant	Isoniazid	katG (S315T)
Second-line Se		Streptomycin	No resistance mutation detected
		Ciprofloxacin	No resistance mutation detected
	Sensitive	Moxifloacin	No resistance mutation detected
	Jensitive	Amikacin	No resistance mutation detected
		Kanamycin	No resistance mutation detected
		Capreomycin	No resistance mutation detected

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	Number of prior matching isolates	
Likely Related (< 5 SNPS apart)	2 isolates	
Possibly Related (6 to 30 SNPS apart)	2 isolates	
Oxford 1997645 Oxford 891 current London 33146 0.5 Oxford 123456	1876 nt patient	