

Supplementary Table 2: Summary of investigations – Case 2.

Test	Result	Comments
Microbiology		
Standard bacterial blood culture	Serial cultures - no growth after 5 days	
Sputum culture (mycobacterial)	Sputum cultures x4 - no growth after 8 weeks	
Blood culture (mycobacterial)	Blood cultures x8 negative	Terminal smear negative at 6 weeks
	Blood culture x1 flagged positive at 6 weeks Smear and PCR negative	Likely flagged due to degradation over time rather than culture positivity

Test	Result	Comments
	Blood culture x2 culture negative On readmission a year later: blood cultures x4 - no growth after 8 weeks	Terminal smear positive and PCR positive for <i>M. genavense</i>
Lymph node	AFB smear positive; culture negative	Culture negative at 8 weeks Reloaded and incubated for 16 weeks, culture remained negative Sent for PCR which was positive for <i>M. genavense</i>
Urine MCS	No white cells Cultures negative	
Sputum MCS	No growth	
CSF PCR (bacterial)	<i>S. pneumoniae</i> and <i>N. meningitidis</i> not detected	
CSF (AFB)	Culture negative after 8 weeks	

Test	Result	Comments
CSF (biochemistry)	WCC 0, RBC <1; protein 0.51 g/L (0.2–0.4); glucose 3.8 mmol/L (2.2–3.9)	Unremarkable aside from mildly elevated protein
Syphilis antibody	Negative	
Virology		
Respiratory viral PCRs	None detected	
HIV	HIV PCR 3,810 copies/mL Absolute CD4 of 30 cells/ μ L; 11%	
CSF PCR (viral)	CMV, EBV, adenovirus, HSV, VZV, enterovirus, parechovirus negative	
Parasitology		
CSF PCR (Toxoplasma)	Not detected	

Test	Result	Comments
EDTA blood PCR (Toxoplasma)	Not detected	Poor quality sample/lysed, results difficult to read by dye test
Toxoplasma dye test	Negative	1 in 16 dilution
Serum toxoplasma IgM	Negative	
Serum toxoplasma IgG	Not detected	
Imaging		
MRI head	Solitary lesion within the right temporal lobe with surrounding oedema	MRI diffusion weighted MRI with contrast
CT TAP	Multiple pathological lymph nodes, some with necrotic components, within the periportal, paraaortic and peripancreatic regions	CT with contrast

AFB: acid-alcohol fast bacilli; CMV: cytomegalovirus; CSF: cerebrospinal fluid; CT TAP: computed tomography thorax, abdomen, and pelvis; EBV: Epstein-Barr virus; EDTA: ethylenediaminetetraacetic acid; HSV: herpes simplex virus; IgG: immunoglobulin G; IgM: immunoglobulin M; MGIT: mycobacteria growth indicator tube; MCS: microscopy, culture, and sensitivity; RBC: red blood cell count; WCC: white cell count; VZV: varicella zoster virus.