

Unknown cause of diffuse small gut disease in XDR-TB/HIV coinfection

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37 year old Lithuanian man, UK 2011, unemployed, living alone

PMHx:

1. Intravenous drug use (on Subutex)
2. HIV-1 (Dx 2011, CD4+ 80, VL 160,000)
» Atripla July 2011, CD4+ July 2012 140
3. Hepatitis C
» untreated, VL 664242 iU/mL, genotype 1a, normal liver imaging
4. Miliary TB (2011)
» fully s, 2RHZE/4RH

Referred Sept '12: 2/12 cough & weight loss



Sputa:
Smear -ve

BAL:
Smear +ve

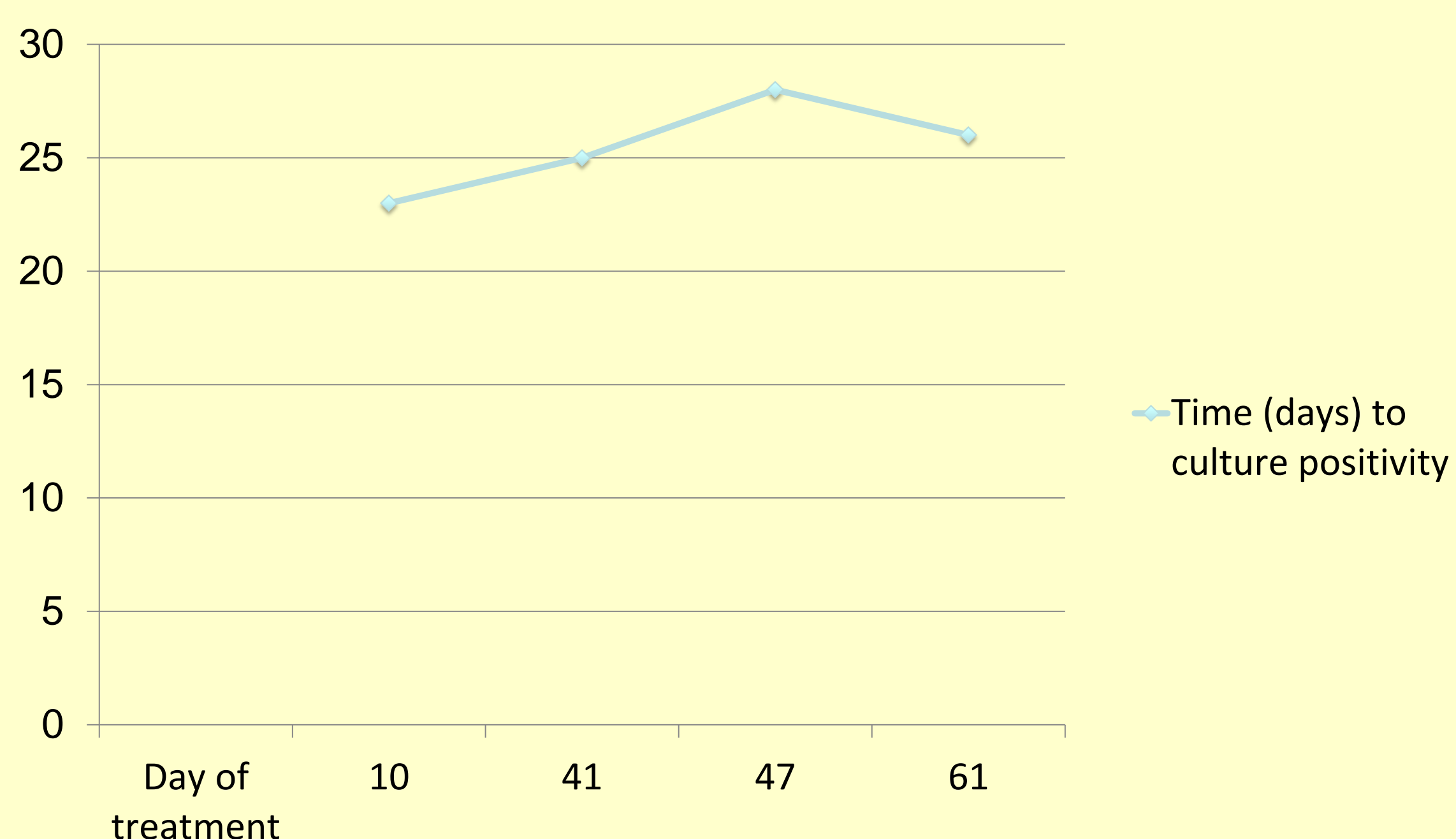
2nd line DSTs: Res: Streptomycin, Kanamycin, Moxifloxacin, Ofloxacin
Sens: Amikacin, Capreomycin, Protionamide, PAS, Linezolid

Sputum TB culture: *M. tuberculosis* isolated

Res. RHE, Sens. Z
rpoB mutation detected
katG/inhA mutations detected

Rx: Z, Levofloxacin, Amikacin, Prothionamide, Cycloserine, PAS, Linezolid

Initial improvement on TB medication:



Around 30 days into Rx, he started to c/o abdominal Sx:



Vomiting
Abdo pain
BMI fallen
<18.5

CT: diffuse small bowel thickening and dilatation

Initial improvement, TPN stopped, but GI Sx recrudesced:

Trial of steroids: no benefit → NG tube for feeding

TDM: Amikacin, Cycloserine, Efavirenz all in therapeutic range
HIV V.L.: < 40 copies/mL (on two occasions)
EBV PCR: 11000 copies/mL
CMV PCR: not detected
HHV-8 PCR: not detected
Stool: -ve for M/C/S, OCP and CDT
Ba+ F/T: no stricturing
Repeat CT: no lymphadenopathy
OGD: Gastric bx: "chronic inflammation, nil specific"
D2 bx: "normal, fragmented mucosa"

TPN for 3/52

Around 3/12 into Rx:

Markedly worsening abdominal pain. Out-of-hours CT scanning:
"free intraperitoneal fluid and air likely secondary to a gastro oesophageal junction perforation. The diffuse small bowel dilatation and thickening has progressed since previous imaging."

Joint Surgical & Medical decision:
"owing to extent of bowel disease in the context of its unknown aetiology, no surgical option is likely to be of benefit."

Patient died shortly after. Body repatriated to Lithuania.