

Study	Study Design (n)	Age (years) Sex (M/F)	Location	HIV status	Specimen/site	Microbiology	Histopathology	Treatment	Outcome
Abe et al., 2013 <sup>22</sup>	Case report (n=1)	23M	Japan	+	Duodenal biopsy BAL, blood	AFB + Culture + PCR +	Accumulation of macrophages in lamina propria	Azithromycin, ethambutol, levofloxacin	D
André et al., 2015 <sup>14</sup>	Case report (n=1)	43F	Belgium	+	LN, BM	AFB + Culture – Sequencing of rpoB gene +	Epithelioid granulomas and a single Langhans giant cell	Clarithromycin 500 mg BD, rifabutin 300 mg OD, isoniazid 300 mg OD, ethambutol 800 mg OD, pyrazinamide 1,000 mg OD	S
Artigues Serra et al., 2022 <sup>30</sup>	Case report (n=1)	38M	Spain	+	LN FNA	AFB + Culture – 16S rRNA +	Inflammation with fibrosis, necrotising granuloma	Ethambutol, azithromycin, levofloxacin  Corticosteroids duration >24 months	S
Benchetrit et al., 2024 <sup>31</sup>	Case report (n=1)	26F	Argentina	+	Skin biopsy	AFB + Culture – PCR +	Granulomatous inflammation, AFB	Isoniazid, rifabutin, ethambutol, pyrazinamide clarithromycin	D
Berman et al., 1994 <sup>16</sup>	Case report/ literature review (n=1)	50M	USA	+	Brain biopsy BM	AFB + Culture +	No evidence of granulomatous inflammation (BM)	Clarithromycin, ciprofloxacin, ethambutol, dexamethasone.  13 days (death)	D
Bourlon et al., 2017 <sup>27</sup>	Case report	40M	Mexico	+	BM	AFB + Culture + PCR +	Hypocellular BM, macrophages with intracellular organisms	Clarithromycin, rifampicin, ethambutol	D
Charles et al., 2011 <sup>11</sup>	Retro-spective study (n=25)	Mean age: 42 Sex: 16M, 9F	France	HIV + (20) Transplant (3) Sarcoid (2)	LN, BM, blood, sputum, stool, GI	AFB + (13) Culture + (6)	Foamy histiocytes and granuloma	Clarithromycin, rifampicin, ethambutol  Median duration 10.9 months	D (11) S (14)

Gaynor et al., 1994 <sup>32</sup>	Case report (n=2)	20M 35M	USA	+	Blood, BM	AFB + 16S rRNA +	AFB and multiple granulomata	Rifampin, ethambutol, ciprofloxacin, isoniazid	D (2)
Heiken et al., 1993 <sup>33</sup>	Case report (n=1)	NA	Germany	NA	BM, spleen, liver, GI	AFB + PCR +	AFB	Rifampicin 600 mg OD, ethambutol 1.2 g OD, pyrazinamide 2 g OD, isoniazid 300 mg OD	D (2)
Hillebrand Haverkort et al., 1999 <sup>34</sup>	Case series (n=3)	38M 41M 28M	Netherlands	+	Liver and BM biopsy	AFB + Culture + PCR +	AFB	Clarithromycin 1 g BD, ethambutol 1.2 g OD, ciprofloxacin 750 mg OD, rifabutin 600 mg OD, ciprofloxacin 750 mg BD	D (2) S (1)
Hoefsloot et al., 2013 <sup>26</sup>	Retrospective study (n=14)	Mean age: 54.7 (33–68)	Netherlands	HIV + (4)	LN, liver, BM, PM	AFB + (13) Culture + (3) LPA only + (11)	AFB	Ethambutol, rifampicin, clarithromycin	D (3) S (11)
Hosoda et al., 2019 <sup>35</sup>	Case report (n=1)	48M	Japan	+	Spleen	AFB + Culture – PCR/WGS +	AFB	Azithromycin, ethambutol, rifabutin	S
Kirschner et al., 1994 <sup>36</sup>	Case report (n=1)	30M	Germany	+	BM, blood, GI, LN, skin, liver, spleen	AFB + Culture + 16S rRNA +	Numerous AFB	Rifampin, ethambutol, clarithromycin, cefotaxime  Duration <11 days (patient died)	D
Kyrilli et al., 2013 <sup>37</sup>	Case report (n=1)	58F	ND	+	Blood, stool, sputum, BM, CSF, spleen	AFB + Culture + PCR and 16S rRNA +	Multiple intracellular AFB	Clarithromycin, moxifloxacin, ethambutol, rifabutin, amikacin	D
Mahmood et al., 2017 <sup>25</sup>	Case series (n=3)	51M, 66F, 36F	USA	HIV + (1) Other immunocompromise d (2)	Lymph node, blood, knee operative tissue	AFB + Culture +	Non-necrotising granulomas with AFB	Clarithromycin, ciprofloxacin, ethambutol, rifampicin/rifabutin, moxifloxacin	D (1) S (1) LTFU (1)
Murata et al., 2021 <sup>38</sup>	Case report (n=1)	40M	Japan	+	Blood	AFB + Culture – PCR +	NA	Clarithromycin, levofloxacin, rifabutin for 18 months	S

Nadal et al., 1993 <sup>20</sup>	Case series (n=3)	6F, 12M, 13M	Switzerland	+	LN, PM, stool	AFB + (3) Culture – (3) PCR + (2)	Macrophages with intracellular AFB	Amikacin, ethambutol, rifampin, clarithromycin, clofazamine	D (1) S (2)
Ogawa et al., 2015 <sup>21</sup>	Case report (n=1)	44M	Japan	+	LN, BM	AFB + Culture – 16S rRNA +	Granulomatous inflammation, AFB	Rifabutin, ethambutol, clarithromycin, levofloxacin	ND
Pasticci et al., 1996 <sup>39</sup>	Case report (n=1)	32(ND)	Italy	+	LN	AFB + Culture + 16S rRNA +	Numerous AFB	Isoniazid, rifampin, ethambutol, amikacin, clarithromycin, ciprofloxacin, pyrazinamide, clofazimine	D
Péchère et al., 1995 <sup>12</sup>	Case series/control (n=54)	Mean age: 33.5	Europe North America Australia	+	Sputum, stool, urine, blood	AFB/culture ND 16S rRNA +	ND	Ethambutol, rifampin, clofazimine, ciprofloxacin, isoniazid, clarithromycin, amikacin, pyrazinamide, rifabutin	D (45) S (9)
Rammaert et al., 2011 <sup>24</sup>	Case report (n=2)	43F, 44M	France	HIV + (1) Renal transplant (1)	Sputum, BAL	AFB + (2) Culture – (2) 16S rRNA + (2)	AFB	Clarithromycin 500 mg BD, rifabutin 5 mg/kg/day, moxifloxacin 400 mg OD, ethambutol 15 mg/kg/day, amikacin 15 mg/kg/day, interferon-gamma, prednisolone	S (2)
Robalo Nunes et al., 2020 <sup>40</sup>	Case report (n=1)	64M	Portugal	+	BM, GI	AFB + Culture + PCR +	Infiltration by histiocytes, AFB	Amikacin, rifampicin, moxifloxacin, clarithromycin  Duration >3 years	S
Rodriguez et al., 1996 <sup>41</sup>	Case series (n=5)	ND	Spain	+	Blood, BM	AFB + Culture + PCR +	ND	ND	ND
Santos et al., 2014 <sup>8</sup>	Case series (n=7)	Mean age: 37.7 Sex: 5F, 2M	Spain	+	Blood, stool, sputum, BM	AFB + (6) Culture + (7) 16S rRNA + (7)	Granulomatous inflammation, intracellular AFB	Clarithromycin, rifampicin, ethambutol, amikacin, moxifloxacin, isoniazid, levofloxacin, pyrazinamide	D (4) S (3)

Shafran et al., 1995 <sup>18</sup>	Case report (n=2)	32M, 41M	Canada	+	Blood, stool	AFB + Culture + 16S rRNA +	ND	Clarithromycin, ethambutol, ciprofloxacin	D (2)
Thomsen et al., 1999 <sup>19</sup>	Comparative study (n=12)	Mean age: 34.8 Sex: 9M, 3F	Denmark	+	Stool, BM, liver biopsy (83 samples)	AFB + (12) Culture + (18) 16S rRNA + (12)	ND	ND	ND
Tortoli et al., 1995 <sup>42</sup>	Case report (n=1)	27M	Italy	+	Blood	AFB ND Culture – 16S rRNA +	ND	Amikacin, clofazimine, rifampin	S
Tribuna et al., 2015 <sup>43</sup>	Case report (n=1)	40M	Portugal	+	Duodenum, BAL	AFB + Culture – PCR +	Numerous AFB	Rifabutin, ethambutol, clarithromycin	D
Trueba et al., 2004 <sup>15</sup>	Case report (n=1)	39M	France	+	LN	AFB + Culture – LPA +	Macrophage infiltration, AFB	Clarithromycin, rifampicin, ethambutol	D
Vergnaud et al., 1998 <sup>44</sup>	Case report (n=1)	25F	France	+	Genital biopsy	AFB + Culture + 16S rRNA +	Necrosis, granulomas, foamy histiocytes, AFB	Rifabutin 300 mg OD, clofazimine 300 mg OD, clarithromycin 500 mg BD, ethambutol 1,000 mg OD, ciprofloxacin 500 mg BD  Duration 9 months	S
Vázquez et al., 2022 <sup>45</sup>	Case report (n=1)	49M	Argentina	+	Brain tissue	AFB + Culture + 16S rRNA +	ND	ND	ND
Wetzstein et al., 2021 <sup>2</sup>	Meta-analysis (n=223)	Mean age: 37 in HIV; 52 in non-HIV  Sex: 178M, 45F	Germany	HIV positive: 171 Patients without HIV: 52 Patients without HIV on immune-suppressiv	Blood, LN, BM, GI, pulmonary	AFB + (168) Culture + (128) PCR + (146)	ND	Macrolides, rifamycins, ethambutol	ND

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Yan et al., 1999 <sup>17</sup>	Case report (n=1)	22M	Taiwan	+	LN	AFB + Culture – PCR, 16S rRNA +	Numerous AFB in histiocyte cytoplasm	Ethambutol, ciprofloxacin, clarithromycin	S

Supplementary Table 4: *Mycobacterium genavense* in patients who are HIV positive: a literature review (summary of 33 papers).<sup>2,8,11,12,14-22,24-27,30-45</sup>

Doses and duration unavailable unless specifically stated.

AFB: acid-fast bacillus; BAL: bronchoalveolar lavage; BD: twice daily; BM: bone marrow; CSF: cerebrospinal fluid; D: death; FNA: fine needle aspiration; GI: gastrointestinal; LN: lymph node; LPA: line probe assay; LTFU: lost to follow-up; NA: not applicable; ND: no data; OD: once daily; S: survival.