

# Atypical Mycobacterial Therapy

Organism	British Thoracic Society	American Thoracic Society	Comments
<i>M. avium</i> complex (MAC) in a normal host	Pulmonary: Rifampicin + ethambutol +/- Isoniazid for 24 months	Clarithromycin (azithromycin) + rifabutin (rifampicin) + ethambutol (until culture negative for 1 year)	May add Streptomycin for initial 2-3 months for severe disease, extra pulmonary disease, surgical excision
MAC – immuno-compromised	Rifabutin + ethambutol + clarithromycin (azithromycin)	Rifabutin + ethambutol + clarithromycin (azithromycin) +/- amikacin/Streptomycin for severe disease	Primary prophylaxis if CD4 count <50/mm <sup>3</sup> Lifelong treatment required
<i>M. abscessus</i>	Rifampicin + ethambutol+ clarithromycin	Amikacin + cefoxitin for severe disease or newer macrolides	Surgical excision
<i>M. chelonae</i>	Pulmonary: Rifampicin + ethambutol+ clarithromycin Extrapulmonary: Ciprofloxacin + aminoglycoside/imipenem +/- clarithromycin	Tobramycin + cefoxitin/imipenem for severe disease  Clarithromycin or clofazimine orally	Surgical excision
<i>M. fortuitum</i>	Pulmonary: Rifampicin + ethambutol+ clarithromycin Extrapulmonary: Ciprofloxacin + aminoglycoside/imipenem +/- clarithromycin	Pulmonary: 2 agents (macrolides, quinolones, doxycycline, minocycline) Extrapulmonary: Amikacin + cefoxitine or imipenem	Optimal regime is not defined  Surgical excision
<i>M. haemophilum</i>	Pulmonary: Rifampicin + ethambutol+ clarithromycin	Ciprofloxacin + rifabutin + clarithromycin	Optimal regime is not defined Surgical excision
<i>M. kansasii</i>	Pulmonary: Rifampicin + ethambutol (9 months)	Isoniazid + rifabutin + ethambutol (18 mths, with 12 mths smear negative)	
<i>M. malmoense</i>	Pulmonary: Rifampicin + ethambutol +/- Isoniazid (24 months)	Isoniazid + rifabutin + ethambutol +/- quinolones & macrolides	Extrapulmonary = excision
<i>M. marinum</i>	Rifampicin + ethambutol or co-trimoxazole/tetracycline	Clarithromycin/minocycline/ doxycycline /co-trimoxazole/rifampicin + ethambutol	Surgical excision
<i>M. scrofulaceum</i>		Clarithromycin + clofazimine +/- ethambutol	Chemotherapy rarely indicated + surgical excision
<i>M. ulcerans</i>	Rifampicin + ethambutol+ clarithromycin	Rifampicin + amikacin OR ethambutol + co-trimoxazole (4 – 6 wks)	Surgical excision and skin grafting
<i>M. xenopi</i>	Pulmonary: Rifampicin + ethambutol +/- Isoniazid (24 months)	Macrolide + rifampicin + ethambutol +/- streptomycin	Extrapulmonary = excision

BTS – 2000 guidelines, ATS 2007 guidelines