Patient referred for MDR treatment

Rapid screen for *rpoB* and *inhA/katG*

*M. tuberculosis* isolate with additional testing

Pretreatment specimen with quantitative susceptibility: Amikacin, Kanamycin, Capreomycin, Ofloxacin, Moxifloxacin, Ethionamide, Para-aminosalicylic acid, Cycloserine

Empiric regimen:
- Amikacin
- Levofloxacin (consider 1000 mg)
- Cycloserine
- Pyrazinamide
  - + Ethionamide (if *inhA* wild-type)
  - or
  - Para-aminosalicylic acid (if *inhA* mutated)
  - + High-dose Isoniazid (consider if *inhA* mutated and *katG* wild-type)

Modify the empiric regimen