**Table S7.** Description of modeled health system scenarios and associated parametric adjustments.

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| **Scenario** | **Parameter adjustments** |
| No delays to diagnosis | Rate of presentation for diagnosis -> 1000x for all states |
| No false negative diagnoses | Sensitivity -> 1 |
| No false positive diagnoses | Specificity -> 1 |
| Rifampin resistance identified at initial diagnosis | Probability of rifampicin resistance test on diagnosis -> 1 |
| No pre-treatment loss to follow up | Primary loss to follow-up fraction -> 0 |
| No treatment loss to follow up | Loss to follow up rate -> 0 |
| No treatment failure | Probability of cure upon treatment completion -> 1 |
| No delay in retreatment after treatment failure | Treatment failure identification probability -> 1 |
| No post-TB sequelae after TB cure | Mortality risk ratio of cured TB -> 1; disability weight of cured TB -> 0 |
| No TB (reference) | Mortality for all states -> background; disability weight associated with TB disease -> 0 |