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Absence of Inflow of Infectives ($E = 0$); 2.7. Non-existence of the Trivial Equilibrium; 2.8. Disease-Free Equilibrium (E_0); 2.9. Computation of the Reproduction Numbers R_0, R_V, R_T and R_{VT} ; 2.10. Local Stability of the Disease-Free Equilibrium E_0 ; 2.11. Global Stability of the Disease-Free Equilibrium E_0 ; 2.12. Effects of Public Health Measures (Treatment and Vaccination); 2.13. The Role of R_{VT} on Disease Eradication; 2.14. Endemic Equilibrium and Its Stability; 2.15. Stability Analysis when $R_{VT} > 1$; 2.16. Endemic Equilibria when $E > 0$; 2.17. Equilibria when $E = 0$; 2.18. Existence of Backward Bifurcation; 2.19. Local Stability of the Endemic Equilibrium E_1 ; 2.20. Global Stability of the E_1 when $R_{VT} > 1$; 2.21. The Model with Mass-Action Incidence; 2.22. Persistence of Solutions of the Model with Mass-Action Incidence; 2.23. Treatment-Only Submodel (with Mass-Action Incidence); 2.24. Existence of Backward Bifurcation in the Treatment-Only Model; 3. Sensitivity Analysis and Numerical Simulations; 3.1. Sensitivity Analysis; 3.2. Sensitivity Indices of R_{VT} ; 3.3. Numerical Simulations; 4. Discussion and Conclusion; 4.1. Discussion; 4.2. Conclusion; Appendix A; Appendix B; Appendix C; Appendix D; (1) Endemic Equilibria when $E = 0$; (2) Endemic Equilibrium when $E > 0$ and $E = 0$; References

A THEORETICAL ASSESSMENT OF THE EFFECTS OF
CHEMOPROPHYLAXIS, TREATMENT AND DRUG RESISTANCE IN TB
INDIVIDUALS CO-INFECTED WITH HIV/AIDS
