A: Covariate-based **B:** Covariate- and monitoring-based Regression **Covariate-based DRO** Reinforcement learning **Bayesian DRO** (PKPD model) (NN) (DQN) (PKPD model) Number of patients 400 300 200 100 0 0.5 0.5 0.0 0.5 1.0 0.0 0.5 1.0 0.0 1.0 0.0 1.0 Fraction of days in TR Number of patients 400 Drop out Inside TR 34.1% False 300 True 65.9% 200 100 0 6 Maintenance INR Maintenance INR Maintenance INR Maintenance INR