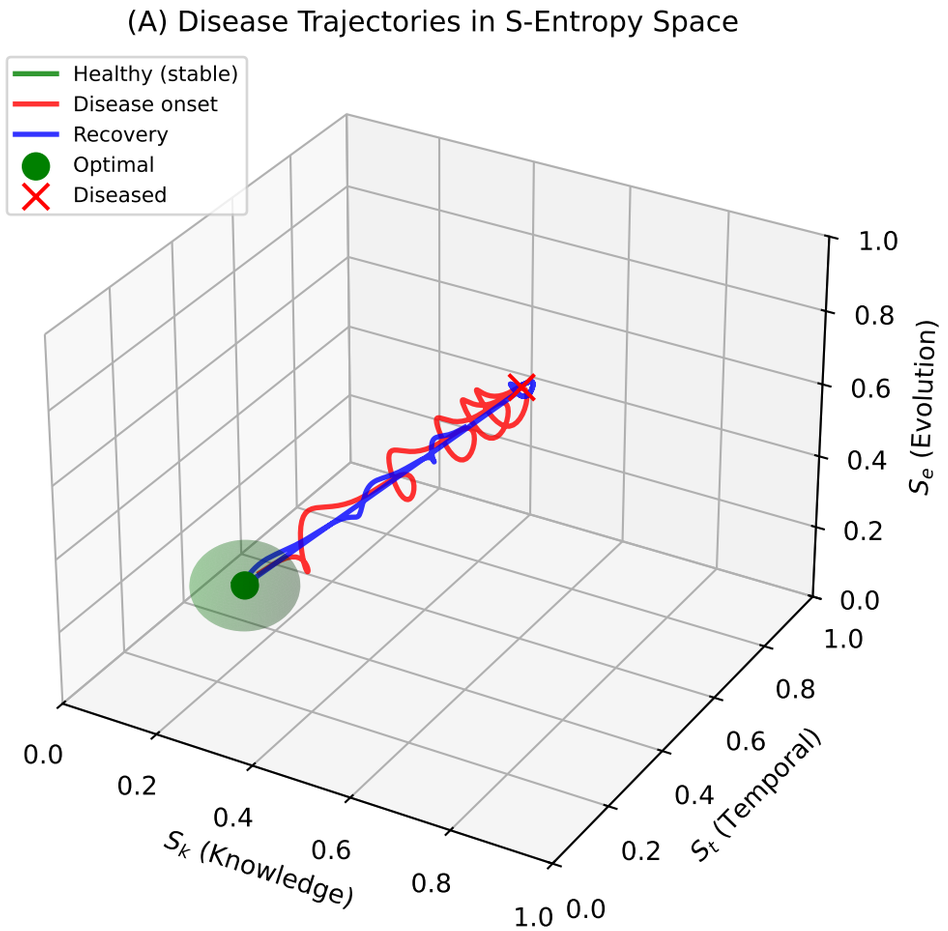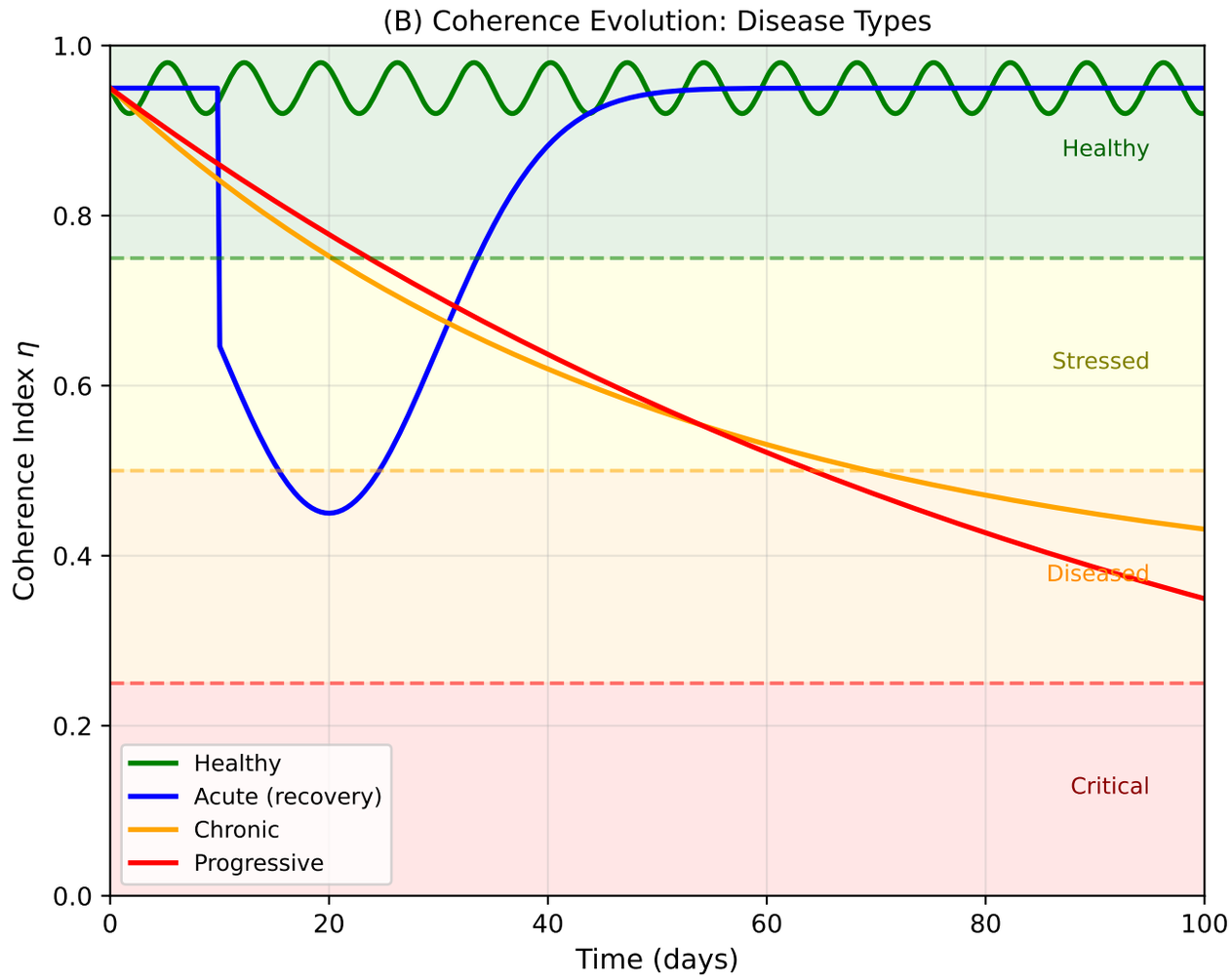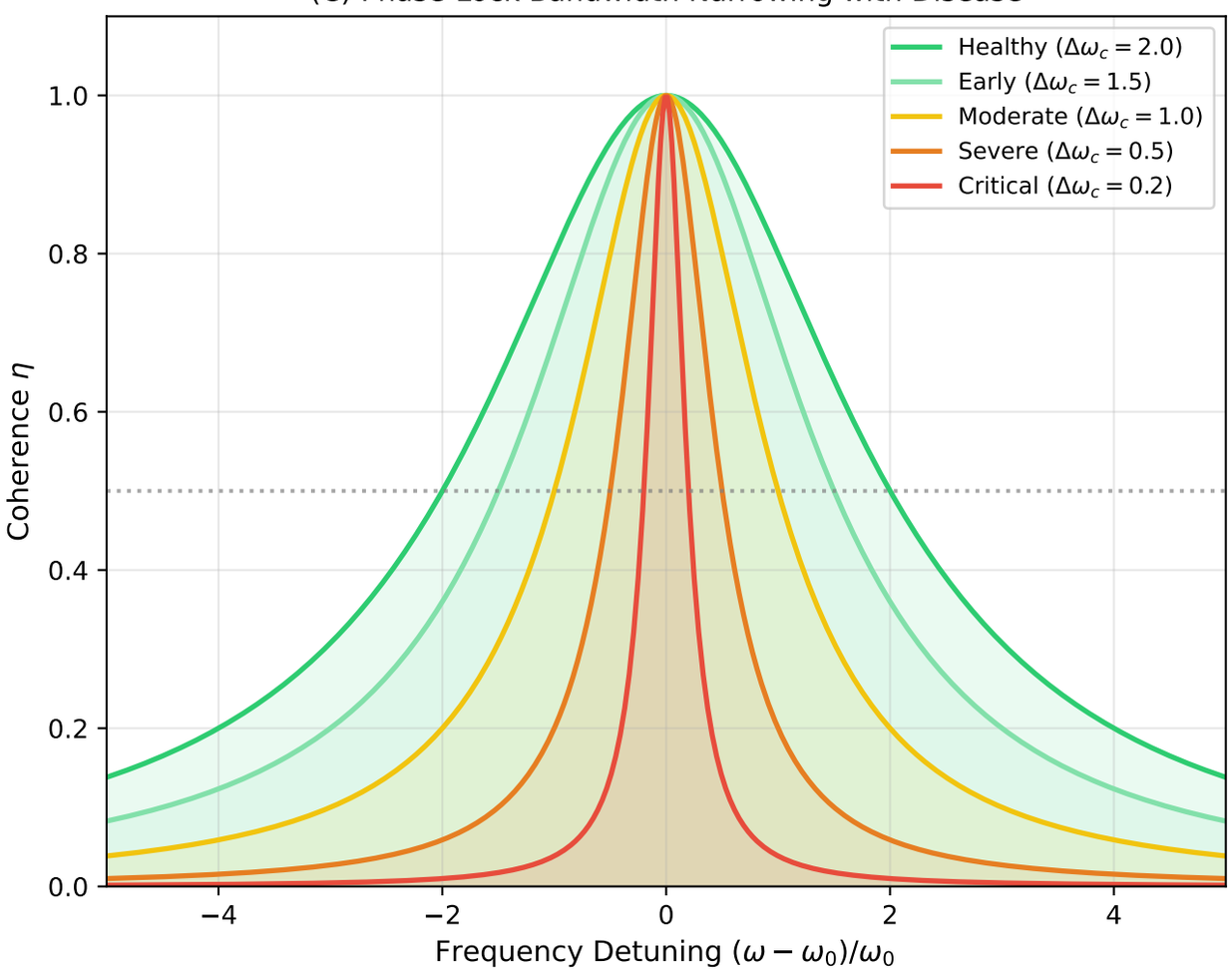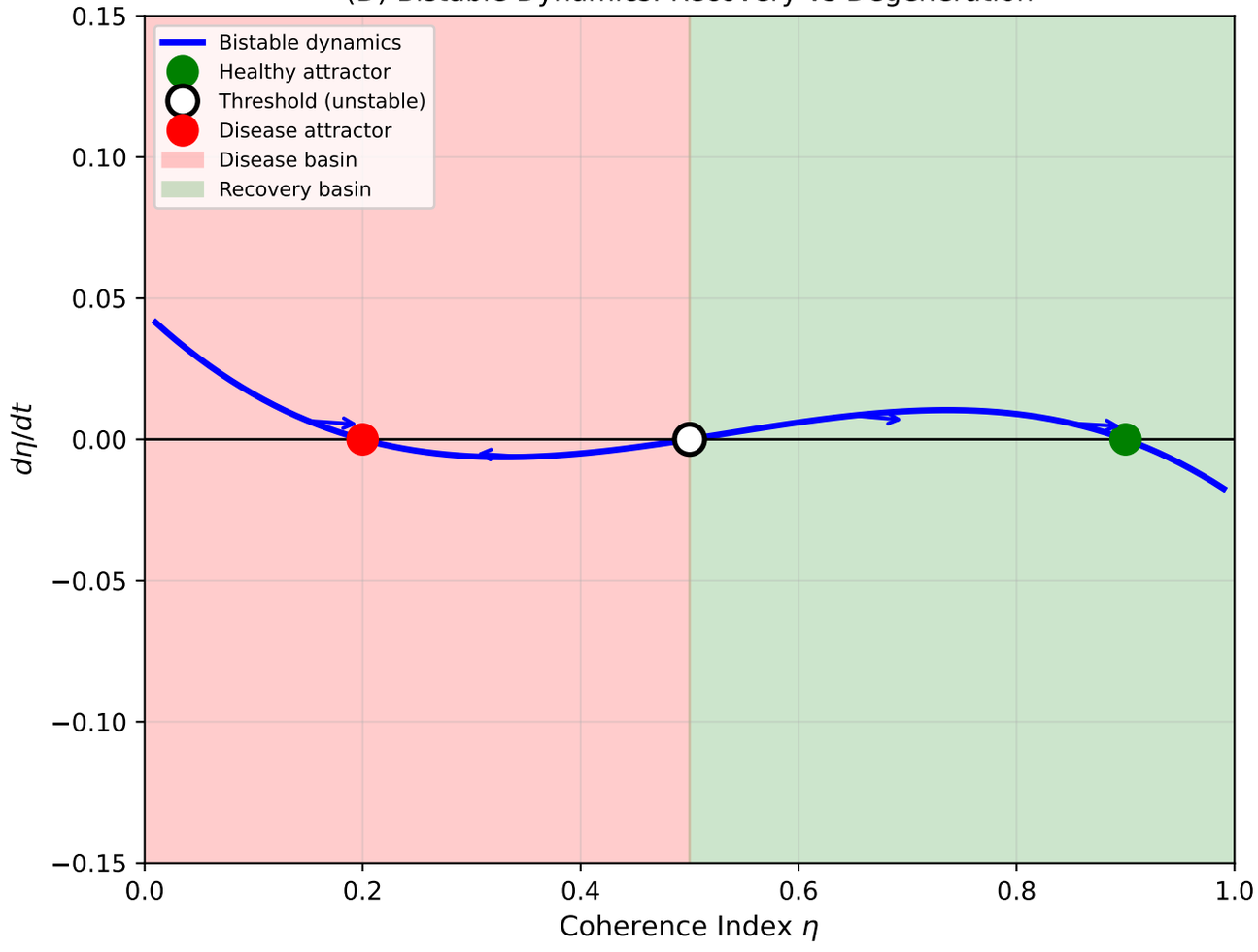Panel 6: Disease Trajectory Simulations in Partition Space