Drug B Adherence to treatment = 100% Adherence to treatment = 67% No seasonality Seasonality No seasonality Seasonality 0.3 Cor=0.991 Cor=0.979 Cor=0.993 Cor=0.967 RMSE=0.007 RMSE=0.014 RMSE=0.003 RMSE=0.006 띩 0.2 П 0.1 G Predicted selection coefficient 0.0 Degree of resistance = 2.5 0.3 Cor=0.99 Cor=0.993 Cor=0.997 Cor=0.98 RMSE=0.006 RMSE=0.007 RMSE=0.002 RMSE=0.005 ER = 0.2 0.1 0.0 0.3 Cor=0.981 Cor=0.979 Cor=0.998 Cor=0.997 RMSE=0.009 RMSE=0.008 RMSE=0.004 RMSE=0.003 띩 0.2 II 500 0.1 0.0 0.3 0.1 0.2 0.3 0.0 0.1 0.2 0.0 0.1 0.2 0.3 0.0 0.1 0.2 0.3 0.0 Cor=0.995 Cor=0.97 Cor=0.988 Cor=0.977 0.6 RMSE=0.006 RMSE=0.009 RMSE=0.019 RMSE=0.023 띩 0.4 II Predicted selection coefficient 0.2 Degree of resistance = Cor=0.993 Cor=0.989 Cor=0.99 Cor=0.99 0.6 RMSE=0.008 RMSE=0.009 RMSE=0.012 RMSE=0.016 **ER** = 10 0.4 0.2 Cor=0.997 Cor=0.994 Cor=0.988 Cor=0.993 0.6 RMSE=0.007 RMSE=0.008 RMSE=0.012 RMSE=0.009 ER = 0.4 500 0.2 0.2 0.3 0.4 0.5 0.6 0.7 0.2 0.3 0.4 0.5 0.6 0.7 0.2 0.3 0.4 0.5 0.6 0.7 0.2 0.3 0.4 0.5 0.6 0.7

Observed selection coefficient