

Appendix Figures and Tables

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Table A1. Model Comparison: Cox (TI/TD) and Parametric AFT Models

Model	Log-Likelihood	DF	AIC	Concordance (C-index)
Cox Proportional Hazards (Time-Independent)				
Null	-911.301	0	1,822.602	0.000
Main Effects	-864.571	5	1,739.141	0.716
Stepwise	-865.511	4	1,739.021	0.712
Interaction Full	-845.108	31	1,752.215	0.736
Interaction Stepwise	-846.448	21	1,734.896	0.737
Cox Proportional Hazards (Time-Dependent)				
Null	-911.301	0	1,822.602	0.000
Main Effects	-861.757	5	1,733.515	0.719
Stepwise	-862.472	4	1,732.943	0.715
Interaction Full	-847.845	25	1,745.690	0.740
Interaction Stepwise	-851.655	11	1,725.310	0.733
AFT: Weibull				
Null	-712.924	2	1,429.848	NA
Main Effects	-665.507	7	1,345.014	NA
Stepwise	-666.429	6	1,344.858	NA
Interaction Full	-646.136	33	1,358.272	NA
Interaction Stepwise	-647.447	23	1,340.894	NA
AFT: Log-Normal				
Null	-713.748	2	1,431.496	NA
Main Effects	-670.990	7	1,355.980	NA
Stepwise	-671.524	6	1,355.049	NA
Interaction Full	-650.217	33	1,366.433	NA
Interaction Stepwise	-655.533	15	1,341.067	NA

Table A2: Cox time-independent model - Covariates with DFBETA > 0.5

Covariate	# Influential Obs	Observation IDs
AZTfailure	5	18, 210, 244, 347, 399
drugddI	10	15, 24, 68, 96, 130, 185, 244, 298, 347, 399
drugddI:AZTfailure	6	18, 164, 210, 244, 347, 399
drugddI:gendermale	10	15, 24, 68, 96, 130, 185, 244, 298, 347, 399
drugddI:gendermale:AZTfailure	6	18, 164, 210, 244, 347, 399
drugddI:gendermale:prevOIAIDS	8	15, 24, 68, 96, 185, 244, 298, 347
drugddI:prevOIAIDS	8	15, 24, 68, 96, 185, 244, 298, 347
gendermale	12	6, 15, 24, 30, 68, 96, 130, 185, 244, 298, 347, 399
gendermale:AZTfailure	5	18, 210, 244, 347, 399
gendermale:prevOIAIDS	10	6, 15, 24, 30, 68, 96, 185, 244, 298, 347
prevOIAIDS	10	6, 15, 24, 30, 68, 96, 185, 244, 298, 347

Table A3. Cox time-independent model - Schoenfeld Residual Test for Proportional Hazards

Correlation ()	Chi-squared	p-value	Covariate
0.1704	1.0000	0.6797	CD4
0.0944	1.0000	0.7586	drug
0.3599	1.0000	0.5486	gender
0.1843	1.0000	0.6677	prevOI
0.4246	1.0000	0.5146	AZT
0.3585	1.0000	0.5493	CD4:drug
0.0748	1.0000	0.7845	CD4:gender
0.9826	1.0000	0.3216	CD4:prevOI
1.1969	1.0000	0.2739	CD4:AZT
0.0091	1.0000	0.9242	drug:gender
0.3526	1.0000	0.5526	drug:prevOI
0.2523	1.0000	0.6155	drug:AZT
0.0126	1.0000	0.9107	gender:prevOI
0.2553	1.0000	0.6134	gender:AZT
0.0013	1.0000	0.9713	CD4:drug:gender
0.0483	1.0000	0.8260	CD4:drug:AZT
0.2130	1.0000	0.6444	CD4:gender:prevOI
0.7758	1.0000	0.3784	CD4:gender:AZT
0.0995	1.0000	0.7524	drug:gender:prevOI
0.3431	1.0000	0.5580	drug:gender:AZT
0.0680	1.0000	0.7943	CD4:drug:gender:AZT

GLOBAL TEST: $\chi^2 = 21$, $p = 0.0021$ **Table A4: Influential Observations in Time-Dependent Cox Model**

Covariate	# Influential Obs	Observation IDs
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Table A5: Schoenfeld Residuals for TD Cox Model

Correlation ()	Chi-squared	p-value	Covariate
0.0233	1.0000	0.8786	CD4
0.0164	1.0000	0.8981	drug
0.0007	1.0000	0.9795	gender
0.0772	1.0000	0.7811	prevOI
0.2408	1.0000	0.6236	AZT
0.0866	1.0000	0.7686	CD4:gender
0.7932	1.0000	0.3731	CD4:prevOI
0.5208	1.0000	0.4705	CD4:AZT
0.0102	1.0000	0.9197	drug:prevOI
0.2228	1.0000	0.6369	gender:AZT
0.4066	1.0000	0.5237	CD4:gender:AZT

GLOBAL TEST: $\chi^2 = 11$, $p = 0.9965$