

## SAS 시스템

## The PHREG Procedure

Model Information	
Data Set	WORK.PHREG_DATA
Dependent Variable	start
Dependent Variable	stop
Censoring Variable	bad
Censoring Value(s)	0
Ties Handling	BRESLOW

Number of Observations Read	5576
Number of Observations Used	5576

Class Level Information			
Class	Value	Design Variables	
cat	1	1	
	0	0	
bdr	3	1	0
	2	0	1
	1	0	0
HTN	1	1	
	0	0	
sex	1	1	
	0	0	
curr_smoker	1	1	
	0	0	

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
5576	35	5541	99.37

Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	357.333	310.162
AIC	357.333	326.162
SBC	357.333	338.605

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq

Likelihood Ratio	47.1708	8	<.0001
Score (Model-Based)	47.7643	8	<.0001
Score (Sandwich)	23.5354	8	0.0027
Wald (Model-Based)	39.2501	8	<.0001
Wald (Sandwich)	48.9167	8	<.0001

Type 3 Tests			
Effect	DF	Wald Chi-Square	Pr > ChiSq
cat	1	13.8450	0.0002
Age	1	1.0137	0.3140
sex	1	9.2500	0.0024
bdr	2	20.3580	<.0001
A1c_Result2	1	7.1369	0.0076
HTN	1	1.0151	0.3137
curr_smoker	1	2.1945	0.1385

Analysis of Maximum Likelihood Estimates											
Parameter		DF	Parameter Estimate	Standard Error	StdErr Ratio	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits		Label
cat	1	1	-1.88522	0.50666	0.992	13.8450	0.0002	0.152	0.056	0.410	cat 1
Age		1	-0.02536	0.02519	0.976	1.0137	0.3140	0.975	0.928	1.024	
sex	1	1	1.10963	0.36484	0.977	9.2500	0.0024	3.033	1.484	6.201	sex 1
bdr	3	1	2.06813	0.47082	0.830	19.2952	<.0001	7.910	3.144	19.904	bdr 3
bdr	2	1	0.91492	0.40030	1.050	5.2238	0.0223	2.497	1.139	5.471	bdr 2
A1c_Result2		1	0.28325	0.10603	0.985	7.1369	0.0076	1.327	1.078	1.634	
HTN	1	1	0.46923	0.46574	1.012	1.0151	0.3137	1.599	0.642	3.983	HTN 1
curr_smoker	1	1	0.84235	0.56862	1.093	2.1945	0.1385	2.322	0.762	7.077	curr_smoker 1

## SAS 시스템

## The PHREG Procedure

Model Information	
Data Set	WORK.ALLPROG2
Dependent Variable	start
Dependent Variable	stop
Censoring Variable	prog
Censoring Value(s)	0
Ties Handling	BRESLOW

Number of Observations Read	5429
Number of Observations Used	5429

Class Level Information		
Class	Value	Design Variables
cat	1	1
	0	0
bdr	2	1
	1	0
HTN	1	1
	0	0
sex	1	1
	0	0
curr_smoker	1	1
	0	0

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
5429	30	5399	99.45

Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	304.394	267.723
AIC	304.394	281.723
SBC	304.394	291.531

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq

Likelihood Ratio	36.6710	7	<.0001
Score (Model-Based)	36.8086	7	<.0001
Score (Sandwich)	18.4334	7	0.0102
Wald (Model-Based)	31.5316	7	<.0001
Wald (Sandwich)	39.2529	7	<.0001

Type 3 Tests			
Effect	DF	Wald Chi-Square	Pr > ChiSq
cat	1	10.7161	0.0011
Age	1	1.8212	0.1772
sex	1	7.4666	0.0063
bdr	1	4.8528	0.0276
A1c_Result2	1	5.9898	0.0144
HTN	1	0.6472	0.4211
curr_smoker	1	2.7236	0.0989

Analysis of Maximum Likelihood Estimates											
Parameter		DF	Parameter Estimate	Standard Error	StdErr Ratio	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits		Label
cat	1	1	-1.68108	0.51353	0.974	10.7161	0.0011	0.186	0.068	0.509	cat 1
Age		1	-0.04104	0.03041	1.016	1.8212	0.1772	0.960	0.904	1.019	
sex	1	1	1.03096	0.37729	0.943	7.4666	0.0063	2.804	1.338	5.873	sex 1
bdr	2	1	0.89343	0.40557	1.058	4.8528	0.0276	2.443	1.104	5.410	bdr 2
A1c_Result2		1	0.27086	0.11067	0.970	5.9898	0.0144	1.311	1.055	1.629	
HTN	1	1	0.40340	0.50145	1.048	0.6472	0.4211	1.497	0.560	4.000	HTN 1
curr_smoker	1	1	0.88947	0.53897	1.020	2.7236	0.0989	2.434	0.846	6.999	curr_smoker 1

## SAS 시스템

## The PHREG Procedure

Model Information	
Data Set	WORK.PHREG_DATA
Dependent Variable	start
Dependent Variable	stop
Censoring Variable	pdr
Censoring Value(s)	0
Ties Handling	BRESLOW

Number of Observations Read	5576
Number of Observations Used	5576

Class Level Information			
Class	Value	Design Variables	
cat	1	1	
	0	0	
bdr	3	1	0
	2	0	1
	1	0	0
HTN	1	1	
	0	0	
sex	1	1	
	0	0	
curr_smoker	1	1	
	0	0	

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
5576	26	5550	99.53

Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	264.163	210.455
AIC	264.163	226.455
SBC	264.163	236.520

Testing Global Null Hypothesis: BETA=0			

Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	53.7077	8	<.0001
Score (Model-Based)	55.9118	8	<.0001
Score (Sandwich)	21.5268	8	0.0059
Wald (Model-Based)	37.1912	8	<.0001
Wald (Sandwich)	52.8579	8	<.0001

Type 3 Tests			
Effect	DF	Wald Chi-Square	Pr > ChiSq
cat	1	10.8107	0.0010
Age	1	0.0003	0.9866
sex	1	5.8477	0.0156
bdr	2	31.3463	<.0001
A1c_Result2	1	6.8847	0.0087
HTN	1	0.0548	0.8148
curr_smoker	1	1.2306	0.2673

Analysis of Maximum Likelihood Estimates											
Parameter		DF	Parameter Estimate	Standard Error	StdErr Ratio	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits		Label
cat	1	1	-2.20542	0.67076	1.022	10.8107	0.0010	0.110	0.030	0.410	cat 1
Age		1	-0.0004936	0.02933	1.000	0.0003	0.9866	1.000	0.944	1.059	
sex	1	1	0.97337	0.40252	0.934	5.8477	0.0156	2.647	1.203	5.826	sex 1
bdr	3	1	3.11851	0.56126	0.813	30.8723	<.0001	22.613	7.527	67.935	bdr 3
bdr	2	1	2.03672	0.54129	1.025	14.1578	0.0002	7.665	2.653	22.146	bdr 2
A1c_Result2		1	0.33937	0.12934	0.987	6.8847	0.0087	1.404	1.090	1.809	
HTN	1	1	-0.11449	0.48889	0.938	0.0548	0.8148	0.892	0.342	2.325	HTN 1
curr_smoker	1	1	0.83251	0.75048	1.239	1.2306	0.2673	2.299	0.528	10.008	curr_smoker 1