

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
DM_type	2	1	
	1	0	
HTN	1	1	
	0	0	
sex	1	1	
	0	0	
past_smoker	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	302.772
AIC	357.333	326.772

SBC	357.333	345.437
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Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	54.5606	12	<.0001
Score (Model-Based)	54.1795	12	<.0001
Score (Sandwich)	25.3658	12	0.0132
Wald (Model-Based)	45.9022	12	<.0001
Wald (Sandwich)	73.3920	12	<.0001

Type 3 Tests			
Effect	DF	Wald Chi-Square	Pr > ChiSq
cat	1	8.5713	0.0034
Age	1	0.0405	0.8405
agesq	1	0.0158	0.9000
sex	1	13.3448	0.0003
bdr	2	18.6182	<.0001
DM_type	1	0.6239	0.4296
DM_duration	1	0.1163	0.7330
A1c_Result2	1	10.3741	0.0013
HTN	1	2.4723	0.1159
past_smoker	1	3.9932	0.0457
curr_smoker	1	1.2644	0.2608

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	-1.58504	0.54140	1.021	8.5713	0.0034	0.205	0.071	0.592	cat 1
Age		1	-0.06530	0.32438	0.912	0.0405	0.8405	0.937	0.496	1.769	
agesq		1	0.0003301	0.00263	0.925	0.0158	0.9000	1.000	0.995	1.005	
sex	1	1	1.27060	0.34782	0.914	13.3448	0.0003	3.563	1.802	7.045	sex 1
bdr	3	1	1.98298	0.47648	0.803	17.3196	<.0001	7.264	2.855	18.483	bdr 3
bdr	2	1	0.83455	0.36747	0.957	5.1577	0.0231	2.304	1.121	4.734	bdr 2
DM_type	2	1	-0.32374	0.40986	0.864	0.6239	0.4296	0.723	0.324	1.615	DM_type 2
DM_duration		1	-0.00914	0.02680	1.168	0.1163	0.7330	0.991	0.940	1.044	
A1c_Result2		1	0.32457	0.10077	0.897	10.3741	0.0013	1.383	1.135	1.686	
HTN	1	1	0.66971	0.42593	0.892	2.4723	0.1159	1.954	0.848	4.502	HTN 1
past_smoker	1	1	-1.75820	0.87984	1.105	3.9932	0.0457	0.172	0.031	0.967	past_smoker 1
curr_smoker	1	1	0.66857	0.59457	1.121	1.2644	0.2608	1.951	0.608	6.258	curr_smoker 1

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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
DM_type	2	1
	1	0
HTN	1	1
	0	0
sex	1	1
	0	0
past_smoker	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	256.656

AIC	304.394	278.656
SBC	304.394	294.069

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	47.7380	11	<.0001
Score (Model-Based)	44.6836	11	<.0001
Score (Sandwich)	23.0055	11	0.0176
Wald (Model-Based)	39.4045	11	<.0001
Wald (Sandwich)	67.3206	11	<.0001

Type 3 Tests			
Effect	DF	Wald Chi-Square	Pr > ChiSq
cat	1	5.9970	0.0143
Age	1	0.0468	0.8287
agesq	1	0.0932	0.7602
sex	1	12.6244	0.0004
bdr	1	5.3610	0.0206
DM_type	1	0.6782	0.4102
DM_duration	1	0.1310	0.7174
A1c_Result2	1	9.3444	0.0022
HTN	1	1.8796	0.1704
past_smoker	1	5.8212	0.0158
curr_smoker	1	1.1692	0.2796

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	−1.24194	0.50715	0.930	5.9970	0.0143	0.289	0.107	0.780	cat 1
Age		1	0.09619	0.44461	0.973	0.0468	0.8287	1.101	0.461	2.632	
agesq		1	−0.00112	0.00367	0.988	0.0932	0.7602	0.999	0.992	1.006	
sex	1	1	1.29611	0.36478	0.900	12.6244	0.0004	3.655	1.788	7.471	sex 1
bdr	2	1	0.84999	0.36711	0.942	5.3610	0.0206	2.340	1.139	4.804	bdr 2
DM_type	2	1	−0.33711	0.40935	0.842	0.6782	0.4102	0.714	0.320	1.592	DM_type 2
DM_duration		1	−0.01068	0.02951	1.195	0.1310	0.7174	0.989	0.934	1.048	
A1c_Result2		1	0.33128	0.10837	0.887	9.3444	0.0022	1.393	1.126	1.722	
HTN	1	1	0.63103	0.46027	0.917	1.8796	0.1704	1.880	0.763	4.633	HTN 1
past_smoker	1	1	−2.60512	1.07974	0.988	5.8212	0.0158	0.074	0.009	0.613	past_smoker 1
curr_smoker	1	1	0.63382	0.58617	1.088	1.1692	0.2796	1.885	0.597	5.946	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
	DM_type	2	1
	1	0	
	HTN	1	
	0	0	
	sex	1	
	0	0	
	past_smoker	1	
	0	0	
	curr_smoker	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	205.110

AIC	264.163	229.110
SBC	264.163	244.208

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	59.0523	12	<.0001
Score (Model-Based)	60.8762	12	<.0001
Score (Sandwich)	24.7573	12	0.0160
Wald (Model-Based)	41.0163	12	<.0001
Wald (Sandwich)	94.9853	12	<.0001

Type 3 Tests			
Effect	DF	Wald Chi-Square	Pr > ChiSq
cat	1	5.9853	0.0144
Age	1	0.5745	0.4485
agesq	1	0.5447	0.4605
sex	1	8.1100	0.0044
bdr	2	26.0861	<.0001
DM_type	1	0.3426	0.5583
DM_duration	1	1.2486	0.2638
A1c_Result2	1	9.4845	0.0021
HTN	1	0.2458	0.6201
past_smoker	1	1.7275	0.1887
curr_smoker	1	0.8165	0.3662

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	−1.95148	0.79766	1.141	5.9853	0.0144	0.142	0.030	0.678	cat 1
Age		1	−0.27516	0.36302	0.991	0.5745	0.4485	0.759	0.373	1.547	
agesq		1	0.00211	0.00285	0.993	0.5447	0.4605	1.002	0.997	1.008	
sex	1	1	1.11643	0.39203	0.894	8.1100	0.0044	3.054	1.416	6.585	sex 1
bdr	3	1	2.99774	0.60039	0.831	24.9300	<.0001	20.040	6.178	65.006	bdr 3
bdr	2	1	1.89433	0.54008	1.005	12.3024	0.0005	6.648	2.307	19.161	bdr 2
DM_type	2	1	0.38443	0.65680	0.992	0.3426	0.5583	1.469	0.405	5.321	DM_type 2
DM_duration		1	0.02846	0.02547	0.953	1.2486	0.2638	1.029	0.979	1.082	
A1c_Result2		1	0.36828	0.11958	0.879	9.4845	0.0021	1.445	1.143	1.827	
HTN	1	1	0.24836	0.50097	0.908	0.2458	0.6201	1.282	0.480	3.422	HTN 1
past_smoker	1	1	−1.74178	1.32522	1.209	1.7275	0.1887	0.175	0.013	2.353	past_smoker 1
curr_smoker	1	1	0.77245	0.85485	1.342	0.8165	0.3662	2.165	0.405	11.564	curr_smoker 1