1. Poisson loglinear (Table 11.5)

The GENMOD Procedure

Model Information		
Data Set	WORK.A	
Distribution	Poisson	
Link Function	Log	
Dependent Variable	cases	Number of cases of CHD
Offset Variable	lpy	Log person-years

Number of Observations Read	16
Number of Observations Used	16

Criteria For Assessing Goodness Of Fit			
Criterion	**DF**	**Value**	**Value/DF**
Deviance	12	21.2397	1.7700
Scaled Deviance	12	21.2397	1.7700
Pearson Chi-Square	12	22.1455	1.8455
Scaled Pearson X2	12	22.1455	1.8455
Log Likelihood		497.3329	
Full Log Likelihood		-45.7730	
AIC (smaller is better)		99.5459	
AICC (smaller is better)		103.1823	
BIC (smaller is better)		102.6363	

Algorithm converged.

Analysis Of Maximum Likelihood Parameter Estimates							
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald 95% Confidence Limits**		**Wald Chi-Square**	**Pr > ChiSq**
Intercept	1	-5.4202	0.1308	-5.6765	-5.1638	1716.79	<.0001
smoking	1	0.0273	0.0056	0.0163	0.0383	23.72	<.0001
personality	1	0.7526	0.1362	0.4856	1.0195	30.53	<.0001
bp	1	0.7534	0.1292	0.5001	1.0067	33.98	<.0001
Scale	0	1.0000	0.0000	1.0000	1.0000		

Note: The scale parameter was held fixed.

The GENMOD Procedure

Model Information		
Data Set	WORK.A	
Distribution	Binomial	
Link Function	Logit	
Response Variable (Events)	cases	Number of cases of CHD
Response Variable (Trials)	py	Person-years (denominator)

Number of Observations Read	16
Number of Observations Used	16
Number of Events	257
Number of Trials	23191.5

Response Profile		
Ordered Value	Binary Outcome	Total Frequency
1	Event	257
2	Nonevent	22934.5

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	12	21.4801	1.7900
Scaled Deviance	12	21.4801	1.7900
Pearson Chi-Square	12	22.3395	1.8616
Scaled Pearson X2	12	22.3395	1.8616
Log Likelihood		-1363.1163	
Full Log Likelihood		-45.7500	
AIC (smaller is better)		99.5001	
AICC (smaller is better)		103.1364	
BIC (smaller is better)		102.5904	

Algorithm converged.

The GENMOD Procedure

Analysis Of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Intercept	1	-5.4210	0.1316	-5.6790	-5.1630	1696.18	<.0001
smoking	1	0.0278	0.0057	0.0167	0.0390	24.10	<.0001
personality	1	0.7623	0.1369	0.4939	1.0307	30.99	<.0001
bp	1	0.7667	0.1305	0.5109	1.0224	34.52	<.0001
Scale	0	1.0000	0.0000	1.0000	1.0000		

Note: The scale parameter was held fixed.