

Table 1: Exposure of ids to 4 agents

Obs	id	a1	a2	a3	a4	lung	income
1	os1	1	0	0	1	ca case	45424
2	os2	1	1	0	0	ca case	52877
3	os3	0	0	0	0	pop cont	25600
4	os4	1	0	0	1	pop cont	14888
5	os5	0	0	0	0	ca case	41036
6	os6	0	0	0	0	ca case	20365
7	os7	1	0	1	1	pop cont	16988
8	os8	0	0	0	0	ca case	100962
9	os9	1	0	1	0	pop cont	11230
10	os10	0	0	1	0	ca case	35850
11	os11	0	1	0	0	pop cont	28700
12	os12	0	0	0	0	pop cont	46320
13	os13	1	1	1	1	pop cont	24897
14	os14	0	0	0	0	pop cont	18966
15	os15	1	0	0	1	ca case	20540
16	os16	0	0	1	0	pop cont	150600
17	os17	1	1	1	1	pop cont	24897
18	os18	0	0	0	0	pop cont	17999
19	os19	0	0	0	0	pop cont	22540
20	os20	0	0	0	0	pop cont	158600
21	os21	0	0	0	0	pop cont	187365
22	os22	1	0	1	0	ca case	30580

Table 2:Subjects unexposed to any of the 4 agents**The FREQ Procedure**

lung	Frequency	Percent	Cumulative Frequency	Cumulative Percent
ca case	3	30.00	3	30.00
pop cont	7	70.00	10	100.00

Table 3: original variables and ref group

Obs	id	a1	a2	a3	a4	lung	income	refgroup
1	os1	1	0	0	1	ca case	45424	0
2	os2	1	1	0	0	ca case	52877	0
3	os3	0	0	0	0	pop cont	25600	1
4	os4	1	0	0	1	pop cont	14888	0
5	os5	0	0	0	0	ca case	41036	1
6	os6	0	0	0	0	ca case	20365	1
7	os7	1	0	1	1	pop cont	16988	0
8	os8	0	0	0	0	ca case	100962	1
9	os9	1	0	1	0	pop cont	11230	0
10	os10	0	0	1	0	ca case	35850	0
11	os11	0	1	0	0	pop cont	28700	0
12	os12	0	0	0	0	pop cont	46320	1
13	os13	1	1	1	1	pop cont	24897	0
14	os14	0	0	0	0	pop cont	18966	1
15	os15	1	0	0	1	ca case	20540	0
16	os16	0	0	1	0	pop cont	150600	0
17	os17	1	1	1	1	pop cont	24897	0
18	os18	0	0	0	0	pop cont	17999	1
19	os19	0	0	0	0	pop cont	22540	1
20	os20	0	0	0	0	pop cont	158600	1
21	os21	0	0	0	0	pop cont	187365	1
22	os22	1	0	1	0	ca case	30580	0

Table 4: freq of ca case and pop cont for ref group**The FREQ Procedure**

Frequency Percent Row Pct Col Pct	Table of lung by refgroup		
	lung	refgroup	
		0	1
ca case	5 22.73 62.50 41.67	3 13.64 37.50 30.00	8 36.36
pop cont	7 31.82 50.00 58.33	7 31.82 50.00 70.00	14 63.64
Total	12 54.55	10 45.45	22 100.00

The LOGISTIC Procedure

Model Information	
Data Set	WORK.LOGTEST
Response Variable	lung
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	22
Number of Observations Used	22

Response Profile		
Ordered Value	lung	Total Frequency
1	ca case	8
2	pop cont	14

Probability modeled is lung='ca case'.

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	30.841	32.518
SC	31.932	34.700
-2 Log L	28.841	28.518

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	0.3233	1	0.5696
Score	0.3208	1	0.5711
Wald	0.3186	1	0.5725

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-0.3365	0.5855	0.3302	0.5655
refgroup	1	-0.5108	0.9050	0.3186	0.5725

The LOGISTIC Procedure

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
refgroup	0.600	0.102	3.536

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	31.3	Somers' D	0.125
Percent Discordant	18.8	Gamma	0.250
Percent Tied	50.0	Tau-a	0.061
Pairs	112	c	0.563