

Competing model (best w age) - 2 interaction terms

The LOGISTIC Procedure

Model Information

Data Set	WORK.TIMESINCEVAX	
Response Variable	breakthrough	breakthrough
Number of Response Levels	2	
Model	binary logit	
Optimization Technique	Fisher's scoring	

Number of Observations Read	3084648
Number of Observations Used	3084648

Response Profile

Ordered Value	breakthrough	Total Frequency
1	1	29677
2	0	3054971

Probability modeled is breakthrough=1.

Model Convergence Status

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

Model Fit Statistics

Criterion	Intercept Only	Intercept and Covariates
AIC	334698.88	6617.617
SC	334711.82	6708.211

-2 Log L 334696.88 6603.617

Testing Global Null Hypothesis: BETA=0

Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	328093.266	6	<.0001
Score	1685306.46	6	<.0001
Wald	2408.9968	6	<.0001

Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-24.8910	1.1322	483.3162	<.0001
followup_time	1	-6.4441	0.1332	2340.3215	<.0001
time_since_vax	1	204.6	4.2180	2352.9714	<.0001
age	1	0.1331	0.0182	53.5719	<.0001
age*age	1	-0.00064	0.000168	14.5041	0.0001
followup_*time_since	1	-0.0317	0.00125	642.0941	<.0001

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Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
time_since_vax*age	1	-0.0140	0.00190	54.4806	<.0001

Association of Predicted Probabilities and Observed Responses

Percent Concordant	99.7	Somers' D	0.993
Percent Discordant	0.3	Gamma	0.994
Percent Tied	0.0	Tau-a	0.019
Pairs	90662374367	c	0.997