Best subsets ideal model - w interaction term

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	6777.410
SC	334711.82	6829.178

```
                    -2 Log L        334696.88         6769.410


                Testing Global Null Hypothesis: BETA=0

          Test                Chi-Square       DF      Pr > ChiSq

          Likelihood Ratio     327927.473       3        <.0001
          Score               1684101.70        3        <.0001
          Wald                   2449.0487       3        <.0001


                Analysis of Maximum Likelihood Estimates

                                      Standard        Wald
     Parameter           DF   Estimate    Error   Chi-Square   Pr > ChiSq

     Intercept            1    -20.2299   0.9437    459.5197      <.0001
     followup_time        1     -6.3642   0.1295   2413.4153      <.0001
     time_since_vax       1      201.5    4.0771   2443.3263      <.0001
     followup_*time_since 1     -0.0320   0.00124   665.6590      <.0001
```

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Association of Predicted Probabilities and Observed Responses

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

Odds Ratio Estimates and Wald Confidence Intervals

Odds Ratio	Estimate	95% Confidence Limits	
followup_time at time_since_vax=5.3634	0.001	0.001	0.002
time_since_vax at followup_time=163.28	>999.999	>999.999	>999.999