

Hello,

I am struggling with CI-Calculation for a GENLIN-Model.

I got the following Parameter Estimation table for a poisson-model with offset-parameter:

Parameter Estimates										
Parameter	B	Std. Error	95% Wald Confidence Interval		Hypothesis Test			Exp(B)	95% Wald Confidence Interval for Exp(B)	
			Lower	Upper	Wald Chi-Square	df	Sig.		Lower	Upper
(Intercept)	-3.383	0.1044	-3.588	-3.178	1049.111	1	0.000	0.034	0.028	0.042
Patzahl_mean	-0.001	0.0003	-0.002	-0.001	13.872	1	0.000	0.999	0.998	0.999
(Scale)	1 ^a									

Dependent Variable: Tod_sum

Model: (Intercept), Patzahl_mean, offset = lnPatzahl

a. Fixed at the displayed value.

SPSS calculates the following CI-Values, which are different to CI-values calculated by the estimated parameters:

Patzahl_mean	Tod_sum	lnPatzahl	Predicted Value of Mean of Response SPSS	Lower Bound of CI for Mean of Response SPSS	Upper Bound of CI for Mean of Response SPSS	Predicted Value of Mean of Response Calculated with estimated parameter	Lower Bound of CI for Mean of Response Calculated with estimated parameter	Upper Bound of CI for Mean of Response Calculated with estimated parameter
20	0	2.995732	0.6628	0.5461	0.8043	0.6628	0.5739	0.8237
23	0	3.135494	0.7594	0.6268	0.9200	0.7594	0.6636	0.9456
55	4	4.007333	1.7474	1.4677	2.08040	1.7474	1.6830	2.2204
65	1	4.174387	2.0404	1.7230	2.41640	2.0404	2.0259	2.6092

The calculation for mean and CI-bounds was done by the following syntax:

```
COMPUTE Kontrolle_mean3=EXP(-3.38301712722085 +--0.00120312302916854 * Patzahl_mean + lnPatzahl).  
EXECUTE.  
COMPUTE Kontrolle_CILower3=EXP(-3.58772835131916 +--0.00183624662562659 * Patzahl_mean + lnPatzahl).  
EXECUTE.  
COMPUTE Kontrolle_CIUppper3=EXP(-3.17830590312254 +--0.00056999943271048 * Patzahl_mean + lnPatzahl).  
EXECUTE.
```

The control-calculation for the mean gives exactly the same result as SPSS, but the CI-Bounds are calculated differently.

Where can I find the documentation how the CI-values are calculated?