

Bug Fixes in StatXact 6.3.0

1. Two Independent Binomials: CI on the Difference of Proportions: Standardized Statistic: Invert Two one sided test (with Gamma=0):

Example data set:

Table1	col1	col2	TOTAL
row1	0	10	10
row2	10	0	10
TOTAL	10	10	20

Results: Before Patch:

(CI upper limit appears wrongly as 0.0000)

Method	P-value		95.00% Conf. Interval	
	1-sided(Pr{T .GE. t})	2*1-sided	for pi_2-pi_1	
Asymp	0.0000	0.0000	(0.6636, 0.0000)
Exact	0.0000	0.0000	(0.6631, 0.0000)

Results: After Patch:

(CI upper limit appears rightly as 1.0000)

Method	P-value		95.00% Conf. Interval	
	1-sided(Pr{T .GE. t})	2*1-sided	for pi_2-pi_1	
Asymp	0.0000	0.0000	(0.6636, 1.0000)
Exact	0.0000	0.0000	(0.6631, 1.0000)

2. Stratified 2x2 Tables :CI on Common Odds-Ratio:

Example data set:

Table1	col1	col2	TOTAL
row1	0	8	8
row2	4	4	8
TOTAL	4	12	16

Results: Before Patch:

Mantel-Haenszel Inference:

Common Odds Ratio estimate: Invalid
 Two-sided p-value: 0.0000 (with RBG variance)
 0.0253 (M-H variance)
 95.00% CI with RBG variance: (-9999.0000 , -9999.0000)

Results: After Patch:

Mantel-Haenszel Inference:

Common Odds Ratio estimate: Invalid
 Two-sided p-value: Undefined (with RBG variance)
 0.0253 (M-H variance)
 95.00% CI with RBG variance: (Undefined , Undefined)

