

*** Hypothesis ID: 14

Antecedent (empty)

Variable antecedent Before

X__life__expentancy_at_birth_ '\(60.2049-68.1699]\\"

x__P3__Human_Rights_ '\(7.6-inf)\\"

Variable antecedent After

X__life__expentancy_at_birth_ '\(68.1699-76.1348]\\"

x__P3__Human_Rights_ '\(3.2-5.4]\\"

Succedent (empty)

Variable succedent Before

Total Alert

Variable succedent After

Total Warning

Quantifiers values:

a-frequency 11 11 a-frequency (BASE) from source contingency table

a-frequency 10 10 a-frequency (BASE) from source contingency table

Various interest measures from the four-fold tables:

D%-Sum 0.69 0.69 Sum of differences of relative frequencies between state before and after

Df-Conf 0.29 0.2905982906 Difference of values of Confidence

Df-AFUI 0.19 0.1942045138 Difference of values of D-Confidence

Df-FUE 0.34 0.3426966292 Difference of values of E-Confidence

Df-Avg 3.19 3.1921855922 Difference of values of Average Difference

R-Conf 1.52 1.5230769231 Ratio of values of Confidence

R-DFUI 2.88 2.8837837838 Ratio of values of D-Confidence

R-FUE	1.67	1.6703296703	Ratio of values of E-Confidence
R-Avg	29.73	29.7296703297	Ratio of values of Average Difference
H-Conf	1.52	1.5230769231	Higher of ratios of values of Confidence
H-DFUI	2.88	2.8837837838	Higher of ratios of values of D-Confidence
H-FUE	1.67	1.6703296703	Higher of ratios of values of E-Confidence
H-Avg	29.73	29.7296703297	Higher of ratios of values of Average Difference

Values from STATE BEFORE:

a	11	11	a-frequency from the contingency table
b	2	2	b-frequency from the contingency table
c	24	24	c-frequency from the contingency table
d	141	141	d-frequency from the contingency table
r	13	13	r-frequency (a+b) from the contingency table
n	178	178	n-frequency (a+b+c+d) from the contingency table
Conf	0.85	0.8461538462	Confidence (validity): $a/(a+b)$
DConf	0.3	0.2972972973	D-Confidence: $a/(a+b+c)$
EConf	0.85	0.8539325843	E-Confidence: $(a+d)/(a+b+c+d)$
Supp	0.06	0.0617977528	Support: $a/(a+b+c+d)$
Cmplt	0.31	0.3142857143	Completeness: $a/(a+c)$
AvgDf	3.3	3.3032967033	Average difference: $a*(a+b+c+d)/((a+b)*(a+c))-1$ in $[-1;inf)$
Lift	4.3	4.3032967033	Lift measure: $(a/(a+b))/((a+c)/(a+b+c+d)) = \text{AvgDf} + 1$
LBound	0.87	0.8661172452	Lower bound implication (p=0.9)
UBound	0.38	0.3786550197	Upper bound implication (p=0.9)
ELBound	0.98	0.9809239671	Lower bound equivalence (p=0.9)
EUBound	0.03	0.0321490055	Upper bound equivalence (p=0.9)
DLBound	1	1	Lower bound double implication (p=0.9)
DUBound	0	0	Upper bound double implication (p=0.9)
Fisher	0	0.000000236	Fisher test
Chi-Sq	37.45	37.45472262	Chi-square test

PSep	1.36	1.3636363636	Paraconsistent separation index of $((b+c)/a)-1$
bMean	0.8	0.8	Bayesian Mean
bVAR	0.8	0.8	Bayesian Variance
bStDev	0.1	0.1	Bayesian std. deviation
P(>=90%)	0.16	0.1583600035	Bayesian Beta PDF integral (p=0.9)
P(>=95%)	0.03	0.0300536518	Bayesian Beta PDF integral (p=0.95)

Values from STATE AFTER:

a	10	10	a-frequency from the contingency table
b	8	8	b-frequency from the contingency table
c	79	79	c-frequency from the contingency table
d	81	81	d-frequency from the contingency table
r	18	18	r-frequency (a+b) from the contingency table
n	178	178	n-frequency (a+b+c+d) from the contingency table
Conf	0.56	0.5555555556	Confidence (validity): $a/(a+b)$
DConf	0.1	0.1030927835	D-Confidence: $a/(a+b+c)$
EConf	0.51	0.5112359551	E-Confidence: $(a+d)/(a+b+c+d)$
Supp	0.06	0.0561797753	Support: $a/(a+b+c+d)$
Cmplt	0.11	0.1123595506	Completeness: $a/(a+c)$
AvgDf	0.11	0.1111111111	Average difference: $a*(a+b+c+d)/((a+b)*(a+c))-1$ in $<-1;inf$)
Lift	1.11	1.1111111111	Lift measure: $(a/(a+b))/((a+c)/(a+b+c+d)) = \text{AvgDf} + 1$
LBound	1	0.9999791174	Lower bound implication (p=0.9)
UBound	0	0.0001734573	Upper bound implication (p=0.9)
ELBound	1	1	Lower bound equivalence (p=0.9)
EUBound	0	0	Upper bound equivalence (p=0.9)
DLBound	1	1	Lower bound double implication (p=0.9)
DUBound	0	0	Upper bound double implication (p=0.9)
Fisher	0.4	0.4022027986	Fisher test
Chi-Sq	0.25	0.2472222222	Chi-square test

PSep	7.7	7.7	Paraconsistent separation index of $((b+c)/a)-1$
bMean	0.55	0.55	Bayesian Mean
bVAR	0.55	0.55	Bayesian Variance
bStDev	0.11	0.1085620297	Bayesian std. deviation
P(>=90%)	0	0.0000361403	Bayesian Beta PDF integral (p=0.9)
P(>=95%)	0	0.000000114	Bayesian Beta PDF integral (p=0.95)

Differences of absolute frequencies

Contingency table

	Succedent	NOT Succedent		
Antecedent	1	6	7	
NOT Antecedent		55	60	115
	56	66	122	

Row percentage

	Succedent	NOT Succedent		
Antecedent	14.29	85.71	100.00	
NOT Antecedent		47.83	52.17	100.00
	45.90	54.10	100.00	

Column percentage

	Succedent	NOT Succedent		
Antecedent	1.79	9.09	5.74	
NOT Antecedent		98.21	90.91	94.26
	100.00	100.00	100.00	

Total percentage

	Succedent	NOT Succedent		
Antecedent	0.82	4.92	5.74	
NOT Antecedent		45.08	49.18	94.26
	45.90	54.10	100.00	

Differences of relative frequencies

Contingency table

	Succedent	NOT Succedent		
Antecedent	1	3	4	
NOT Antecedent		31	34	65
	32	37	69	

Row percentage

	Succedent	NOT Succedent		
Antecedent	25.00	75.00	100.00	
NOT Antecedent		47.69	52.31	100.00
	46.38	53.62	100.00	

Column percentage

	Succedent	NOT Succedent		
Antecedent	3.13	8.11	5.80	
NOT Antecedent		96.88	91.89	94.20
	100.00	100.00	100.00	

Total percentage

	Succedent	NOT Succedent		
Antecedent	1.45	4.35	5.80	

NOT Antecedent	44.93	49.28	94.20
	46.38	53.62	100.00

State Before Summary

Contingency table

	Succedent	NOT Succedent		
Antecedent	11	2	13	
NOT Antecedent		24	141	165
	35	143	178	

Row percentage

	Succedent	NOT Succedent		
Antecedent	84.62	15.38	100.00	
NOT Antecedent		14.55	85.45	100.00
	19.66	80.34	100.00	

Column percentage

	Succedent	NOT Succedent		
Antecedent	31.43	1.40	7.30	
NOT Antecedent		68.57	98.60	92.70
	100.00	100.00	100.00	

Total percentage

	Succedent	NOT Succedent		
Antecedent	6.18	1.12	7.30	
NOT Antecedent		13.48	79.21	92.70
	19.66	80.34	100.00	

State After Summary

Contingency table

	Succedent		NOT Succedent	
Antecedent	10	8	18	
NOT Antecedent		79	81	160
	89	89	178	

Row percentage

	Succedent		NOT Succedent	
Antecedent	55.56	44.44	100.00	
NOT Antecedent		49.38	50.63	100.00
	50.00	50.00	100.00	

Column percentage

	Succedent		NOT Succedent	
Antecedent	11.24	8.99	10.11	
NOT Antecedent		88.76	91.01	89.89
	100.00	100.00	100.00	

Total percentage

	Succedent		NOT Succedent	
Antecedent	5.62	4.49	10.11	
NOT Antecedent		44.38	45.51	89.89
	50.00	50.00	100.00	