Journal of Applied and Advanced Research, 2018: 3(3) 84–89
http://dx.doi.org/10.21839/jaar.2018.v3i3.186
ISSN 2519-9412 / © 2018 Phoenix Research Publishers

Supplementary

Statistical Analysis using Chi-Square

Table 1: Helminth parasites among male & female in primary school children

Sex	**No. infected**	**No. not infected**	**Total**
Female	45(75.0)	15(25.0)	60
Male	27(67.5)	13(32.5)	40
Total	72(72.0)	28(28.0)	100

Table 1.1: Helminth parasites among male & female in primary school children

	O	E	O-E	$(O-E)^2$	$\frac{(O-E)2}{E}$	$X^2=\frac{(0-E)2}{E}$
Female infected	45	43.2	1.8	3.24	0.075	1.74
Female not infected	15	7.8	7.2	51.84	6.65	0.85
Male infected	27	28.8	-1.8	3.24	0.11	3.82
Male not infected	13	11.2	1.8	3.24	0.29	0.03
Total						6.44
E = $\frac{RC}{N}$				**Degree of freedom**		
Where E= expected value, R = raw				d. f = 1, P>0.05		
C=column and N= total number				d. f = (c-1) (r-1)		
By using the formula above				d. f = (2-1) (2-1)		
$E_1=\frac{R1C1}{N}=\frac{60x72}{100}$ = 43.2				d. f = (1) (1)		
$E_2=\frac{R2C2}{N}=\frac{60x13}{100}$ = 7.8				d. f = 1		
$E_3=\frac{R3C3}{N}=\frac{40x72}{100}$ = 28.8						
$E_3=\frac{R3C3}{N}=\frac{40x72}{100}$ = 28.8						
$E_4=\frac{R4C4}{N}=\frac{40x28}{100}$ = 13.0						