

Sample size determination estimation

$$n = \frac{z^2 pq}{d^2} \times 2$$

$$n = \frac{(1.96)^2 \times 0.366 \times (1 - 0.366)}{(0.05)^2} \times 2$$

$$n = 713.14$$

$$n \approx 713$$

n= Total sample size

z= 1.96 (for 95% Confidence Interval)

p= 0.366 (previous mental disorder rate among school adolescents)[10]

q= (1-p), = (1-0.366), = 0.634

d= 0.05 (where 5% margin of error was accepted)

DE= Cluster design effect = 2

Reference:

10. Anjum A, Hossain S, Sikder T, Uddin ME, Rahim DA. Investigating the prevalence of and factors associated with depressive symptoms among urban and semi-urban school adolescents in Bangladesh: a pilot study. *Int Health*. 2019. Epub 20191106. doi: 10.1093/inthealth/ihz092. PubMed PMID: 31693088