Supplementary File 01

There was no study available for peer-led intervention and NCD control in the Indian context. Based on our experience and expert opinion, we have considered effect size as 20%.

The sample size was calculated using nMaster application (<u>https://www.cmc-biostatistics.ac.in/nmaster/</u>) with the formula for cluster study design-

$$n = \frac{\left(z_{\frac{a}{2}} + z_{1-\beta}\right)^2 \left[p_1(1-p_1) + p_2(1-p_2)\right] \left[1 + (m-1)\rho\right]}{\left(p_1 - p_2\right)^2}$$

Where P1= proportion of outcome in the experimental group

P2= proportion of outcome in the control group

 α = level of significance

 $1-\beta = power$

 ρ = Intra-cluster correlation coefficient

m= size of the cluster

Considering the proportion of outcome in the control group as 50%, an alpha of 5%, power of 90%, effect size of 20%, design effect of 2.5 and loss to follow-up as 20%, the estimated sample size was 720 participants (40 clusters with 18 participants in each cluster)

Sample Size Based on Number of Groups Cluster design		Fests Av		- Compari	son of pro	oportions (Design Eff	ect)
Cluster Design - Two groups - Unmatched studi	ies - Compa	rison of	proport	tions (D	esign E			
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	Col. 1	Col. 2	Col. 3	Col. 4	CoL 5	CoL 6	Col. 7	Col.8
	Col. 1 0.7	Col. 2	Col. 3	Col. 4	Col. 5	CoL 6	Col 7	Col.8
Proportion of outcome in the experimental group	0.7	Col. 2	Col. 3	Col. 4	CoL 5	CoL 6	Col. 7	Col.8
	0.7 0.5 15	Col. 2	Col. 3	Col. 4	CoL 5	Col. 6	Col. 7	Col.8
Proportion of outcome in the experimental group Proportion of outcome in the control group	0.7 0.5 15 2.5	Col. 2	Col. 3	Col. 4	CoL 5	Col. 6	Col. 7	Col.8
Proportion of outcome in the experimental group Proportion of outcome in the control group Size of the cluster Design effect Power (1-β) %	0.7 0.5 15 2.5 90	Col. 2	Col. 3	Col. 4	CoL 5	Col. 6	Col. 7	Col.8
Proportion of outcome in the experimental group Proportion of outcome in the control group Size of the cluster Design effect Power (1-β) % α. Error (%)	0.7 0.5 15 2.5 90 5	Col. 2	Col. 3	Col. 4	CoL 5	CoL 6	Col. 7	Col.8
Proportion of outcome in the experimental group Proportion of outcome in the control group Size of the cluster Design effect Power (1-β) % α. Error (%) 1 or 2 sided	0.7 0.5 15 2.5 90 5 2	Col. 2	Col.3	Col. 4	Col. 5	CoL 6	Col. 7	Col.8
Proportion of outcome in the experimental group Proportion of outcome in the control group Size of the cluster Design effect Power (1-β) % α. Error (%)	0.7 0.5 15 2.5 90 5	Col. 2	Col. 3	Col. 4	CoL 5	Col. 6	Col. 7	Col.8

