

Annex 1: sample size determination			
	The formula for minimum	Minimum sample size	
	sample size calculation	calculated	
For the PHCs	n = { $u\sqrt{[\pi_1(1-\pi_1) + \pi_0(1-\pi_0)]}$ + $v\sqrt{[2\pi(1-\pi)]}$ ² ; $(\pi_0-\pi_1)^2$. Where n = required minimum sample size of each group π_1 = proportion of interest π_0 = null hypothesis proportion $\pi = (\pi_0+\pi_1)$; 2 = (0.02+ 0.5); 2 = 0.52÷2 = 0.26 u = one-sided percentage point of the normal distribution corresponding to 100% - the power. At 90% power, u becomes 1.28, that being the one-sided percentage point of the normal distribution corresponding to 10% (100% - 90% = 10%) v = percentage point of the	For this study, the required minimum sample size of PHCs, n, at 90% power, 5% significance level, null hypothesis proportion of 50%, and proportion of interest of 2% is $15.52 \approx 16$ PHCs per group. Hence, a minimum of 32 PHCs for the 2 groups	
	corresponding to the two- sided significance level. At 5% significance level v =		
	1.96.		
For the health workers	1.96. n = {u $\sqrt{[\pi_1(1-\pi_1) + \pi_0(1-\pi_0)]}$ +v $\sqrt{[2\pi(1-\pi)]}^{2}$; $(\pi_0-\pi_1)^2$ Where n = required minimum sample size of each group π_1 = proportion of interest π_0 = null hypothesis proportion $\pi = (\pi_0+\pi_1)$; 2 $\pi = (\pi_0+\pi_1)$; 2 = (0.83+ 0.5); 2 = 1.33; 2 = 0.67 u = one-sided percentage point of the normal distribution corresponding to 100% - the power. At 90% power, u becomes 1.28, that being the one-sided percentage point of the normal distribution	For this study, the required minimum sample size of health workers, n, at 90% power, 5% significance level, null hypothesis proportion of 50%, and proportion of interest of 83% is 40.1 \approx 40 health workers per group. Hence, a minimum of 80 health workers for the 2 study groups	

	corresponding to 10% (100% - $90\% = 10\%$) v = percentage point of the normal distribution corresponding to the two- sided significance level. At 5% significance level v = 1.96.	
For case records	n = {u $\sqrt{[\pi_1(1-\pi_1) + \pi_0(1-\pi_0)]}$ +v $\sqrt{[2\pi(1-\pi)]}^{2}$; $(\pi_0-\pi_1)^2$ Where n = required minimum sample size of each group π_1 = proportion of interest π_0 = null hypothesis proportion $\pi = (\pi_0+\pi_1)$; 2 $\pi = (\pi_0+\pi_1)$; 2= (0.61+ 0.5) ÷ 2 = 1.11÷2 = 0.56 u = one-sided percentage point of the normal distribution corresponding to 100% - the power. At 90% power, u becomes 1.28, that being the one-sided percentage point of the normal distribution corresponding to 10% (100% - 90% = 10%) v = percentage point of the normal distribution corresponding to the two- sided significance level. At 5% significance level v = 1.96.	For this study, the required minimum sample size of case records, n, at 90% power, 5% significance level, null hypothesis proportion of 50%, and proportion of interest of 60.6% is $515.29 \approx 515$ case records per group. Hence a minimum of 1030 case records for the 2 groups