

## Primary and secondary outcome of the study with analysis plan

| Primary outcome of interest                                                        |                                                                                                                                                                                                                                                                              |                                                                                                            |                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------|
| Factors to be measured                                                             | Indicator                                                                                                                                                                                                                                                                    | Analysis plan                                                                                              | Source of data       |
| Improved availability of generic anti-diabetic and anti-hypertensive drugs at PHCs | <b>Mean (SE) days of availability of key anti-diabetic and key anti-hypertensive medicines at PHCs</b> calculated from Maximum number of days of availability of either of two key anti-diabetic or anti-hypertensive medicines in a year (365 days) prior to date of survey | Intervention effect- Baseline-endline difference (Diff-in-Diff Analysis)                                   | Facility survey data |
| Increased access to PHCs for Medicines patients with diabetes and hypertension     | <b>Mean (SE) proportion of patients could obtain NCD medicines from PHCs</b>                                                                                                                                                                                                 | Diff-in-Diff Analysis                                                                                      | Patient level data   |
| Improved availability of medicines patients with diabetes and hypertension         | <b>Mean(SE) number of days for which medicine obtained by patients</b><br><br>(Normally patients obtain medicines for 30 days from PHCs)                                                                                                                                     | Diff-in-Diff Analysis                                                                                      | Patient level data   |
| Out-of-pocket expenses among patients with diabetes and hypertension               | <b>Mean (SE) OOP in INR on NCD medicines per month</b>                                                                                                                                                                                                                       | Diff-in-Diff Analysis<br><br>Difference in median OOP among patients between intervention arms at endline. | Patient level data   |

| Secondary outcome of interest                                                       |                                                                                                   |                                                        |                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------|
| Factors                                                                             | Indicators                                                                                        | Analysis plan                                          | Source of data              |
| Better coordination among health staffs with regards to NCD patient group formation | - Percentage increase in number of patient groups formed within first quarter and last quarter of | Across intervention arms<br><br>Difference calculation | Intervention follow up data |

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|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------|
|                                             | <p>intervention (Only in intervention B PHCs)</p> <p>- Percentage increase in number of new diabetes patients registered in last three months (from the date of visit) for a given PHC.</p> <p>- Percentage increase in number of new hypertension patients registered in last three months for a given PHC .</p> |                                                                                                    |                             |
| Better availability of staffs               | <p>-Average number of months medical officers available in last 18 months</p> <p>- Average number of months pharmacists available in last 18 months</p> <p>- Average number of months lab technicians available in last 18 months</p>                                                                             | Across intervention arm difference calculation                                                     | Intervention follow up data |
| Conduction of NCD clinics                   | Percentage PHCs conduct NCD camps in last three months                                                                                                                                                                                                                                                            | Across intervention arm difference calculation                                                     | Intervention follow up data |
| Availability of functional laboratory       | Percentage PHCs having a functional laboratory                                                                                                                                                                                                                                                                    | Across intervention arm difference calculation                                                     | Intervention follow up data |
| Record maintenance                          | Percentage of PHC where NCD patient 'register maintained at least for 12 months in last 18 months                                                                                                                                                                                                                 | Across intervention arm difference calculation                                                     | Intervention follow up data |
| Better dispensing by the pharmacists at PHC | Percentage NCD medicines dispensed as prescribed                                                                                                                                                                                                                                                                  | Difference of aggregated percentage NCD medicines dispensed as prescribed across intervention arms | Exit interview              |