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**Figure S1:** The six (6) Northern states SCIDaR provides RI strengthening support (USAID, 2019)

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**Figure S2:** The study model/framework using SEM designed path analysis [Hypothesis H2.1 - H6.1]

**Table S1:** Questionnaire guide for survey

|  |  |  |  |
| --- | --- | --- | --- |
| **Level** | **Focus**  | **Participants** | **Interview method** |
| State | * The perceived effect of COVID-19 on SPHCMB operations and its routine activities
* Impact of the pandemic on the availability of resources and personnel to implement program activities
* The effect on the delivery of essential PHC services across health facilities and LGAs
* Possible strategies to encourage personnel to continue program implementation throughout the pandemic
 | HCH, ES SPHCMB, Directors, PMs and program officers (2 program officers and directors) | KII |
| LGA | * The effect of COVID-19 on LGA operations and its routine activities
* The effect on the delivery of essential PHC services across health facilities in LGAs
* The effect of the pandemic on resource availability for PHC services in the LGA
 | LGHA team (2 respondents per LGA) | KII |
| Health facility | * The general perspective of community dwellers and health workers on PHC services during the pandemic
* Essential needs of the service providers that will enable continuity of service provision
 | Service providers, health facility in-charges (2 service providers per HF) | KII |
| Settlements | * The general perspective of community dwellers on health facility visits during the pandemic
* Possible strategies to motivate community members to access essential services during the pandemic
 | Traditional leaders, VCMs and caregivers (2 caregivers per settlement/facility) | KII |

**Table S2:** Kaiser-Meyer-Olkin and Bartlett's Test

|  |  |  |
| --- | --- | --- |
| KMO Measure of Sampling Adequacy. |   | 0.951  |
| Bartlett's Test of Sphericity | Approx. Chi-Square | 5841.294 |
|   | df | 276 |
|   | Sig. | <0.001 |

**Table S3:** Initial Eigenvalues and Rotation Sums of Squared Loadings

|  |  |  |
| --- | --- | --- |
| Comp | Initial Eigenvalues | Rotation Sums of Squared Loadings |
|   | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 13.551 | 56.462 | 56.462 | 6.794 | 28.306 | 28.306 |
| 2 | 1.767 | 7.362 | 63.824 | 4.776 | 19.899 | 48.205 |
| 3 | 1.185 | 4.938 | 68.762 | 3.483 | 14.513 | 62.718 |
| 4 | 1.053 | 4.388 | 73.150 | 2.504 | 10.432 | 73.150 |
| 5 | 0.890 | 3.707 | 76.857 |   |   |   |
| 6 | 0.634 | 2.641 | 79.498 |   |   |   |
| 7 | 0.596 | 2.485 | 81.983 |   |   |   |

***Note:*** *Comp=Component*



**Figure S3:** Components with factor loadings matrix

**Table S4:** Initial Eigenvalues and Rotation Sums of Squared Loadings

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Indicators** | **C1** | **Cronbach’s α** | **C2** | **Cronbach’s α** | **C3** | **Cronbach’s α** | **C4** | **Cronbach’s α** |
| **SD1** | 0.537 | 0.728 |   |   |   |   |   |   |
| **SD2** | 0.678 |   |   |   |   |   |   |
| **SD3** | 0.199 |   |   |   |   |   |   |
| **SD4** | 0.495 |   |   |   |   |   |   |
| **SD5** | 0.643 |   |   |   |   |   |   |
| **CE1** | 0.680 |   |   |   |   |   |   |
| **CE2** | 0.692 |   |   |   |   |   |   |
| **CE3** | 0.766 |   |   |   |   |   |   |
| **CE4** | 0.728 |   |   |   |   |   |   |
| **CE5** | 0.767 |   |   |   |   |   |   |
| **M&E1** | 0.719 |   |   |   |   |   |   |
| **M&E2** | 0.659 |   |   |   |   |   |   |
| **M&E3** | 0.691 |   |   |   |   |   |   |
| **M&E4** | 0.661 |   |   |   |   |   |   |
| **VSC1** |   |   |   |   | 0.575 | 0.742 |   |   |
| **VSC2** |   |   |   |   | 0.543 |   |   |
| **VSC3** |   |   |   |   | 0.607 |   |   |
| **HF1** |   |   | 0.787 | 0.861 |   |   |   |   |
| **HF2** |   |   | 0.835 |   |   |   |   |
| **HF3** |   |   | 0.860 |   |   |   |   |
| **HF4** |   |   | 0.784 |   |   |   |   |
| **L&G1** |   |   |   |   |   |   | 0.487 | 0.892 |
| **L&G2** |   |   |   |   |   |   | 0.814 |
| **L&G3** |   |   |   |   |   |   | 0.837 |



**Figure S4:** Factor loading in components