### Additional File 3: EN-BIRTH study data collection dates by site and time elapsed between birth and exit survey

| EN-BIRTH study | Bangladesh Azimpur Tertiary | Bangladesh Kushtia District | Nepal Pokhara Regional | Tanzania Temeke Regional | Tanzania Muhimbili National | All sites |
|----------------|-----------------------------|----------------------------|------------------------|--------------------------|-----------------------------|-----------|
| **Tablet data collection dates** |                            |                            |                        |                          |                             |           |
| Duration       | 17/8/17 to 30/4/18 8 months | 11/7/17 to 30/5/18 10 months | 17/7/17 to 31/7/18 1 year | 3/7/17 to 30/5/18 10 months | 3/7/17 to 28/2/18 7 months |           |
| Original register used: | 17/8/17 to 18/10/17 | 11/7/17 to 24/8/17 and 28/9/17 to 30/5/18 | Not applicable | Not applicable | Not applicable |           |
| Revised register used: | 19/10/17 to 30/4/18 | 19/10/17 to 30/4/18 | Not applicable | Not applicable | Not applicable |           |

| **Register extraction comparison dates to assess biases** | | | | | |           |
| Pre-study Duration | 1/1/16 to 31/12/16 12 months | 1/1/16 to 31/12/16 12 months | 1/4/16 to 31/3/17 12 months | 1/1/16 to 31/12/16 12 months | 1/1/16 to 31/12/16 12 months |
| During/after-study Duration | 17/8/17 to 17/8/18 12 months | 11/7/17 to 11/7/18 12 months | 17/7/17 to 17/7/18 12 months | 3/7/17 to 3/7/18 12 months | 3/7/17 to 3/7/18 12 months |

| **Time elapsed between delivery and exit survey interview/ days** | Bangladesh Azimpur Tertiary | Bangladesh Kushtia District | Nepal Pokhara Regional | Tanzania Temeke Regional | Tanzania Muhimbili National | All sites |
|---------------------------------------------------------------|-----------------------------|----------------------------|------------------------|--------------------------|-----------------------------|-----------|
| Total n (%)                                                  | 2844                        | 2331                       | 6922                   | 5752                     | 2783                        | 20632     |
| 0-1 day (n %)                                                | 725 (25.5)                  | 1345 (57.7)                | 5854 (84.6)            | 5433 (94.5)              | 1009 (36.3)                 | 14366 (69.6) |
| 2-3 days (n %)                                               | 511 (18)                    | 846 (36.3)                 | 833 (12)               | 181 (3.1)                | 1098 (39.5)                 | 3469 (16.8) |
| 4+ days (n %)                                                | 1599 (56.2)                 | 127 (5.4)                  | 154 (2.2)              | 43 (0.7)                 | 597 (21.5)                  | 2520 (12.2) |
| Missing (n %)                                                | 9 (0.3)                     | 13 (0.6)                   | 81 (1.2)               | 95 (1.7)                 | 79 (2.8)                    | 277 (1.3)  |

| Mean                                                         | 3.1                         | 1.3                        | 0.6                    | 0.7                      | 3.2                         | 1.4        |
| Median                                                       | 4.0                         | 0.0                        | 0.0                    | 0.0                      | 2.0                         | 1.0        |

Sample size was calculated to observe at least 106 observations per intervention per country, based on estimated coverage of intervention during formative research.

Reference: Day LT, Ruysen H, Gordeev VS, et al. “Every Newborn-BIRTH” protocol: observational study validating indicators for coverage and quality of maternal and newborn health care in Bangladesh, Nepal and Tanzania. *Journal of Global Health* 2019; 9(1).