

Supplementary Materials

Supplementary Table 1: Stillbirth rate (per 1000 births), early neonatal mortality rate (per 1000 live births) and perinatal mortality rate (per 1000 births).

| Year | Total Births | Live Births | Stillbirth | Stillbirth Rate | Early NND | Early NND Rate | Perinatal Mortality | Perinatal Mortality Rate |
|------|--------------|-------------|------------|-----------------|-----------|----------------|---------------------|--------------------------|
| 2006 | 6468 | 6020 | 213 | 32.9 | 96 | 16 | 309 | 47.8 |
| 2007 | 7290 | 6881 | 210 | 28.8 | 193 | 28.1 | 403 | 55.3 |
| 2008 | 8386 | 8408 | 291 | 34.7 | 145 | 17.3 | 436 | 52.0 |
| 2009 | 8452 | 7995 | 207 | 24.5 | 114 | 14.3 | 321 | 38.0 |
| 2010 | 9513 | 8877 | 229 | 24.1 | 132 | 14.9 | 362 | 38.0 |
| 2011 | 8050 | 7610 | 220 | 27.3 | 166 | 21.8 | 386 | 47.9 |
| 2012 | 6732 | 6593 | 149 | 22.1 | 167 | 25.4 | 316 | 47.0 |
| 2013 | 6376 | 6011 | 183 | 28.7 | 117 | 19.4 | 300 | 47.0 |
| 2014 | 6026 | 5764 | 136 | 22.6 | 110 | 19 | 246 | 40.8 |
| 2015 | 5462 | 5222 | 120 | 22 | 112 | 21.5 | 232 | 42.6 |

Supplementary Table 2: Cause of death for stillbirth and early neonatal death.

| Cause of Death | Macerated Stillbirth n=142 (%) | Fresh Stillbirth n=124 (%) | Early Neonatal Death n=259 (%) | TOTAL n=526 (%) |
|---------------------------------|---|---------------------------------------|---|----------------------------|
| Respiratory distress syndrome | - | - | 47 (18.0) | 47 (8.9) |
| Infections / Septicaemia | 1 (0.7) | 0 | 6 (2.3) | 7 (1.3) |
| Congenital anomaly | 0 | 4 (3.2) | 9 (3.5) | 13 (2.5) |
| Meningitis | - | - | 1 (0.4) | 1 (0.2) |
| Meconium aspiration pneumonia | - | - | 40 (15.4) | 40 (7.6) |
| Intrapartum-related hypoxia | 16 (11.3) | 59 (47.6) | 111 (42.9) | 186 (35.4) |
| Haemorrhagic disease of newborn | - | - | 5 (1.9) | 5 (1.0) |
| Unknown | 125 (88.0) | 61 (49.6) | 40 (15.4) | 227 (43.2) |

Supplementary Table 3: Case fatality rates (CFR)

| Cause of death | | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|------------------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Intrapartum-related hypoxia | Intrapartum-related hypoxia admissions | 202 | 291 | 334 | 302 | 316 | 297 | 247 | 252 | 195 | 187 |
| | Intrapartum-related hypoxia deaths | 43 | 55 | 47 | 46 | 40 | 51 | 34 | 30 | 19 | 29 |
| | Intrapartum-related hypoxia CFR (%) | 21.3 | 18.9 | 14.1 | 15.2 | 12.7 | 17.2 | 13.8 | 11.9 | 9.7 | 15.5 |
| Prematurity | Prematurity admissions | 163 | 168 | 194 | 246 | 210 | 328 | 286 | 304 | 336 | 371 |
| | Premature deaths | 43 | 35 | 43 | 36 | 49 | 53 | 60 | 54 | 51 | 41 |
| | Prematurity CFR (%) | 26.4 | 20.8 | 22.2 | 14.6 | 23.3 | 16.2 | 21.0 | 17.8 | 15.2 | 11.1 |
| Infections | Number of admissions for infections | 104 | 149 | 82 | 128 | 120 | 140 | 129 | 171 | 141 | 87 |
| | Deaths due to infections | 2 | 0 | 0 | 4 | 3 | 4 | 4 | 0 | 2 | 5 |
| | Infections CFR (%) | 1.9 | 0 | 0 | 3.1 | 2.5 | 2.9 | 3.1 | 0.0 | 1.4 | 5.7 |

Supplementary Table 4: Standard of care

| Standard of care | MSB (%) | FSB (%) | ENND (%) | Total (%) |
|-------------------------|------------------|------------------|------------------|------------------|
| Optimal | 82 (67.8) | 58 (49.2) | 112 (45.7) | 262 (53.0) |
| Probably acceptable | 21 (17.4) | 28 (23.7) | 58 (23.7) | 107 (21.7) |
| Probably sub-optimal | 12 (9.9) | 24 (20.3) | 46 (18.8) | 82 (16.6) |
| Sub-optimal | 6 (5.0) | 8 (6.8) | 29 (11.8) | 43 (8.7) |
| Total | 121 (100) | 118 (100) | 245 (100) | 494 (100) |