S1 Table. Formulae used to calculate EmOC indicators

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| **EmOC indicator** | **Formula for calculation**  |
| 1a. Number of comprehensive EmOC facilities per 500,000 population | (Number of comprehensive EmOC facilities/district population) x 500,000 |
| 1b. Number of basic EmOC facilities per 500,000 population | (Number of basic EmOC facilities/district population) x 500,000 |
| 2. Proportion of all births in EmOC facility | (Number of women giving births in EmOC facility/expected births in the district a) x 100 |
| 3. Met need for EmOC services | [Number of women with direct obstetric complications b treated in EmOC facility/(expected births in the district x 0.15) ] x 100 |
| 4. Caesarean sections as a proportion of all births | (Number of caesarean sections/expected births in the district) x 100 |
| 5. Direct obstetric case fatality rate in EmOC facility | (Number of maternal deaths from direct obstetric causes in EmOC facilities/Number of women with obstetric complications in EmOC facilities) x 100 |
| 6. Intrapartum and very early neonatal death rate in EmOC facility c | (Number of intrapartum deaths (≥ 2.5 kg) + very early neonatal deaths (≤ 24 h; ≥ 2.5 kg) in EmOC facilities/Number of women who gave birth in EmOC facilities) x 100 |
| 7. Proportion of maternal deaths due to indirect causes in EmOC facility | (Number of maternal deaths from indirect causes in EmOC facilities/ Number of maternal deaths from all causes in EmOC facilities) x 100 |