Newborns are perhaps the most vulnerable population the world over. Preterm or babies born too early, less than 37 weeks gestation, are particularly at risk. Currently, prematurity is the leading cause of death among children under five around the world, and a leading cause of disability and ill health later in life. Sub-Saharan Africa and south Asia account for over 80 percent of preterm births worldwide. Of the fifteen million babies born too early each year, more than one million die due to complications related to preterm birth. Low birth weight (newborns weighing less than 2,500 grams at birth), due to prematurity and/or restricted growth in utero, is also a major contributor of newborn and child deaths, as well as disability and non-communicable diseases globally.

Nearly 85 percent of preterm babies are born between 32 and 37 weeks gestation and most of these babies do not need intensive care to survive. Solutions to improve the survival and health of vulnerable preterm and low birth weight babies exist. Essential newborn care (drying, warming, immediate and exclusive breastfeeding, hygiene and cord care) as well as basic care for feeding support, infections and breathing difficulties can mean the difference between life and death for small babies. More effort is needed to identify women at risk of preterm labor and support them to give birth in a health facility that can offer extra care when needed, such as support for adequate feeding with breast milk, continuous skin to skin contact, antibiotics, and antenatal corticosteroids. To do this, it is critical that families, communities and health care workers value small babies so that they receive the life-saving care they need. To turn the tide on these preventable deaths, we need action across the spectrum of care from adolescence and preconception, pregnancy, the safe management of labor and delivery, and effective immediate and later postnatal care.

Current, local data are crucial to inform priorities and drive scale-up. This national level profile provides the most current national-level information on the status of prevention and care for preterm birth and low birth weight in Kenya. Data presented highlight a number of risk factors relevant to preterm and low birth weight in Kenya as well as the coverage of important care for women and newborns from pregnancy, labor and delivery and the postnatal period. There is also information that provides insights into the health workforce, health policies, health information and community mobilization relevant to preterm birth and low birth weight.

The information provided here can be used to understand the current situation, increase attention to preterm births in Kenya and to inform dialogue and action among stakeholders. Data can be used to identify the most important risk factors to target and gaps in care in order to identify and implement solutions for improved outcomes.

Much is already being done to prevent preterm birth and low birth weight and to improve outcomes for small babies. A safe and healthy start to life is at the heart of human capital and economic progress in every country, making care for small babies an essential investment in both the short- and long-term. As government leaders, civil society organizations, health workers, families, communities and other partners come together to enact change, we can prevent babies from being born too early and too small, and ensure that small babies get the critical life-saving care and nurturing they need.

In Kenya, 134,000 babies are born too soon each year and 9,670 children under five die due to direct preterm complications.

Kenya - National Clinical Standards for Care of Preterm Newborns at the Hospital Level

- ACS
- Tocolytics
- Magnesium Sulfate
- Antibiotics for pPROM
- No antibiotics w/ intact membranes
- Vaginal birth preference
- KMC
- CPAP for RDS
- Safe oxygen
- Surfactant

Based on the 10 elements of care recommended by WHO for improved preterm birth outcomes.
**RISK FACTORS FOR PRETERM BIRTH**

<table>
<thead>
<tr>
<th>Factor</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adolescent birth rate per 1,000 girls</td>
<td>96</td>
</tr>
<tr>
<td>Birth interval &lt;24 months</td>
<td>18%</td>
</tr>
<tr>
<td>Short stature among women of childbearing age</td>
<td>1%</td>
</tr>
<tr>
<td>Anemia among women of childbearing age</td>
<td>NO DATA</td>
</tr>
<tr>
<td>Obesity in women of childbearing age</td>
<td>33%</td>
</tr>
<tr>
<td>Adult diabetes prevalence</td>
<td>1%</td>
</tr>
<tr>
<td>Hypertension in women</td>
<td>9%</td>
</tr>
<tr>
<td>Adult HIV prevalence</td>
<td>5%</td>
</tr>
<tr>
<td>Tobacco use amongst women</td>
<td>1%</td>
</tr>
<tr>
<td>Households with place to wash hands, soap and water</td>
<td>50%</td>
</tr>
<tr>
<td>Solid fuel used for indoor cooking</td>
<td>75%</td>
</tr>
<tr>
<td>Violence during pregnancy</td>
<td>9%</td>
</tr>
</tbody>
</table>

**PREVENTION AND CARE**

- Births attended by skilled attendant: 62%
- Births by caesarean section: 9%
- Infants weighed at birth: 66%
- Newborns initiated on KMC: 66%
- Early initiation of breastfeeding within 1 hour: 62%
- Exclusive breastfeeding up to 6 months: 61%
- PNC within 2 days (mothers): 53%
- PNC within 2 days (newborns): 36%
- Met need for birth spacing: 25%
- At least 1 antenatal care visit: 96%
- 4+ antenatal care visits: 58%
- First antenatal care visit <4 months: 20%
- ITN use in pregnancy: 56%
- HIV+ pregnant women receiving ARVs: 76%

**DEMOGRAPHICS**

- Total population: 48,462,000
- Annual births: 1,504,000
- Total fertility rate per woman: 3.9
- Maternal deaths: 510 (362) / 8,000
- Per 1,000 live births: Total
  - Stillbirths: 22.5 / 35,000
  - Neonatal deaths: 21 (22) / 32,100
  - Infant deaths: 34 (39) / 51,000
  - Under 5 deaths: 46 (52) / 68,900

*Numbers in parentheses refer to mortality estimates from recent national household survey*

**HEALTH FACILITY READINESS**

- Delivery facilities with ACS in stock: 16%
- Delivery facilities with neonatal bag and mask in stock: 55%

**HEALTH WORKFORCE**

- Number of physicians, nurses and midwives per 10,000 population: 17.9
- Clinical standards for preterm care at hospital level: 6/10
- Nursing students receive formal education in neonatal care: -

**HEALTH POLICY**

- National plan for RMNCAH: -
- RMNCAH plans include preterm component: -
- Policy for antenatal corticosteroids use: -
- Policy for safe oxygen use and CPAP: -

**HEALTH INFORMATION**

- Perinatal mortality audit in policy: -
- Birthweight captured in health management information system: -
- Gestational age captured in health management information system: -

**COMMUNITY ENGAGEMENT**

- National advocacy group for parents of preterm babies: -
- Preterm included in national RMNCAH behaviour change strategy: -

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**www.EveryPreemie.org**
RISK FACTORS FOR PRETERM BIRTH

Adolescent birth rate
- Number of births to 1,000 adolescent girls aged 15-19 (9a)
- Birth interval <24 months - Percentage of women with two live births within 24 months (9a)
- Female short stature - Percentage of women age 15-19 who are less than 45 cm tall (9a)
- Anemia in women of childbearing age - Percentage of women age 15-19 with anemia (cut-off <120 g/dL) (9a)
- Female obesity - Percentage of women age 15-19 with a body mass index expressed as the ratio of weight in kilograms to the square of height in meters (BMI) of more than 25.0 kg/m² (9a)
- Diabetes prevalence in women - Percentage of adult women with fasting glucose ≥126 mg/dL (7.0 mmol/L) or on medication for raised blood glucose (9a)
- Hypertension in women - Percentage of adult women with raised blood pressure (systolic blood pressure ≥140 mmHg or diastolic blood pressure ≥90), or on antihypertensive medication (9a)
- Adult HIV prevalence - Percentage of adults living with HIV (10)
- Tobacco use amongst women - Percentage of women age 15-49 who smoke cigarettes or a pipe or use other tobacco products (9a)
- Households with places to wash hands, soap and water - Percentage of households with a place for washing hands that includes water, soap or other cleaning agents (9a)
- Household solid fuel for indoor cooking - Percentage of households using solid fuel for cooking indoors (9a)
- Violence against women in pregnancy - Percentage of women age 15-49 who have ever experienced physical violence during pregnancy (9a)

HEALTH WORKFORCE

- Health worker density per 10,000 population (9a)
- Clinical standards for preterm care at hospital level (10)
- Nursing students receive formal education in neonatal care (9a)
- Policy for ACS use (10)
- Policy for safe oxygen use and CPAP (10)

HEALTH INFORMATION

- Perinatal mortality audit in policy (10)
- Birthweight captured in health management information system (10)
- Gestational age captured in health management information system (10)

COMMUNITY ENGAGEMENT

- National advocacy group for parents of preterm babies (10)
- Preterm included in national MNCAH behaviour change strategy (10)

DATA SOURCES: