**Background**

Though premature birth is common nowadays, it is essential to be aware of the various complications presented during a premature delivery so that early precautions can be taken to avoid further complications that might lead to death of the infant.

**Objective**

We aimed to describe complications presented on admission by mothers who delivered preterm babies and low birth weight (LBW) babies within selected health facilities in Migori County Kenya.

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**Introduction**

Preterm Birth Initiative (PTBi) East Africa is undertaking a study aimed at testing a package of interventions for reducing morbidity/mortality and improving survival of preterm in the first 28 days of life.

**Method**

- As part of the PTBi East Africa initiative, we conducted a retrospective descriptive study where we reviewed maternity data on all preterm and low birth weight births that occurred from June 2016 to November 2017 in 17 health facilities in Migori County Kenya noting the admission complications of mothers presenting with premature labours.
- Descriptive analysis was conducted to determine various complications presented by preterm and low birth weight delivery mothers.

**Results**

We recorded 16244 births from June 2016 to November 2017, with prevalence of preterm deliveries being 1669 (10.3%). Out of all preterm labours, 236 (14.1%) of preterm and low birth weight babies mothers had recorded complication(s) on admission.

**Complications**

- **Twin Delivery**: 23.7%
- **APH**: 11.4%
- **PROM**: 10.6%
- **Breech**: 8.5%
- **Obstructed Labour**: 5.9%
- **Fetal Distress**: 5.1%
- **Induced Abortion**: 4.7%
- **PPROM**: 3.8%
- **Malpresentation**: 2.5%
- **OLIGO/HYDRAMNIOS**: 2.5%
- **Anemia**: 2.5%
- **UTI**: 2.4%
- **Placenta Praedens**: 2.4%
- **Malaria in pregnancy**: 2.3%
- **Prolonged Labour**: 1.7%
- **Hypothyroidism**: 1.3%
- **Cord Prolapse**: 1.3%
- **Preeclampsia**: 1.3%
- **Extensive warts**: 0.8%
- **NVP**
- **Maternal distress**: 0.4%
- **Poor Progress**: 0.4%
- **Hydramnion**: 0.4%
- **Hypothyroidism**: 0.4%
- **Preterm labour**: 0.4%
- **Other**: 0.4%

**Conclusion**

The commonest complication of preterm/low birth weight deliveries in Migori County are multiple pregnancies, APH and PROM. Recognizing this maternal complications and emphasising their prevention and management may reduce the numbers of infants born preterm and with LBW thus improving the under 5 indicators.

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