What is ALERT?

Insufficient reductions in maternal and neonatal deaths and stillbirths in the past decade are a threat to achieving *Sustainable Development Goal* 3. Overcoming the knowledge-do gap to ensure implementation of established evidence-based interventions will be key.

Our ALERT project targets the intrapartum care period and aims to develop and evaluate a multifaceted health system intervention to strengthen the implementation of evidence-based practices and responsive care in sub-Saharan African hospitals. The project will take place in in 16 hospitals in Benin, Malawi, Tanzania and Uganda.

The intervention will include four main components: (see also figure 1):

- i) end-user participation through narratives of women, families and providers of midwifery care to ensure a co-design of the intervention
- i) competency-based midwifery training as part of capacity building
- iii) quality improvement, supported by data from a clinical perinatal e-registry and
- iv) empowerment and leadership mentoring of maternity unit leaders

We will evaluate the intervention through a stepped-wedge design complemented by a realist process evaluation and economic evaluation to estimate scalability and costs. The perinatal e-registry will provide data for i) the quality improvement and ii) the impact evaluation.

ALERT Consortium Partners















"The first 1,000 days of life - Survive, Thrive, Transform"

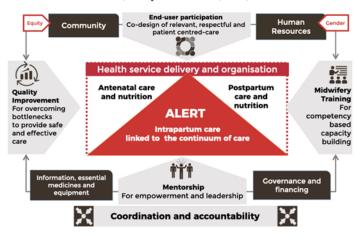


Fig. 1: Conceptual framework

Project Funder

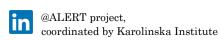


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For more information:

VISIT: https://alert.ki.se/



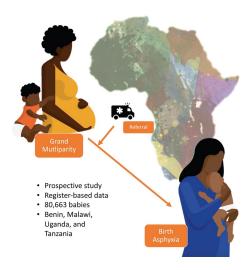






ALERT

Action Leveraging Evidence to Reduce perinatal mor Tality and mobidity in sub-Saharan Africa



Birth Asphyxia and its Association with Grand Multiparity and Referral among Hospital Births: A Prospective Cross-Sectional Study in Benin, Malawi, Tanzania, and Uganda **The link to the full** paper:http://dx.doi.org/10.1111/aogs.14754



Birth Asphyxia and its Association with Grand Multiparity and Referral among Hospital Births: A Prospective Cross-Sectional Study in Benin, Malawi, Tanzania, and Uganda

Aim

The study aimed to assess asphyxia (APGAR score < 7) by country, parity and referral.

Method

Study design: Cross-sectional data collection through the hospital-based ALERT perinatal eregistry.

Study setting: 16 public and faith-based high case-load hospitals in Benin, Malawi, Tanzania and Uganda.

Participants: All hospital births of a foetus above 1000g to a women aged 13-49. We document antenatal and obstetric risk factors and foetal outcomes.

Study tools and data collection: The ALERT perinatal e-registry with its rigerous data processing and assurance framework since July 2021.

Analysis: We investigated birth asphyxia and its association with grand multiparity and referral in Benin, Malawi, Tanzania, and Uganda.

Birth asphyxia was defined as a baby born alive with an APGAR score (Appearance, Pulse, Grimace, Activity and Respiration). The score is a clinical measurement widely used to assess fetal wellbeing.

Results

We included 80663 births from 78125 women. Birth asphyxia was present in 7.0% (n=5612) of babies. More babies with birth asphyxia were born to grand multiparous women (11.9%) compared to other parity groups (≤ 7.6%). Grand multiparous women (5 or more previous babies) had 1.34 times higher odds of birth asphyxia (95% CI 1.17-1.54) vs para one to

Conclusion

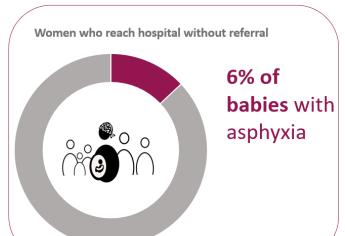
Babies of grand multiparous women who were referred intrapartum for hospital birth had the highest odds of birth asphyxia. These findings suggest they are a high-risk group in low-income countries and should seek attend hospital birth to avoid intrapartum referral.

The link to the full paper:

http://dx.doi.org/10.1111/aogs.14754

High parity women have greater odds of babies with asphyxia compared to lower parity women. Odds differed by country, perhaps due to health system effects or sample size.

Risk nearly doubled when they reach hospital following referral in labour



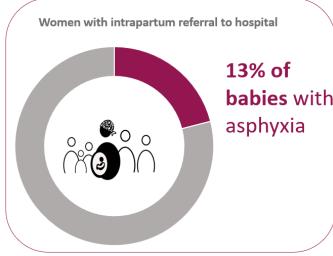


Fig 1: Risk of asphyxia in 16 hospitals across Benin, Malawi, Tanzania, and Uganda.