Maternal, Newborn and Child Health in Africa

'The test of a civilization is in the way it cares for its helpless members' Pearl S Buck

Aine s/o Mbabazi

- 3 years old (Year 2000)
- Mbarara District, South Western Uganda
- Rushere District hospital



Halima

- 15 year old-PG (2017)
- North Eastern Kenya (Kenyan Somali)

555555

With great power comes great responsibility

Spider Man

With great privilege comes great responsibility...?

MATERNAL, NEWBORN AND CHILD HEALTH IN AFRICA

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Outline

We will give a global and then Africa perspective

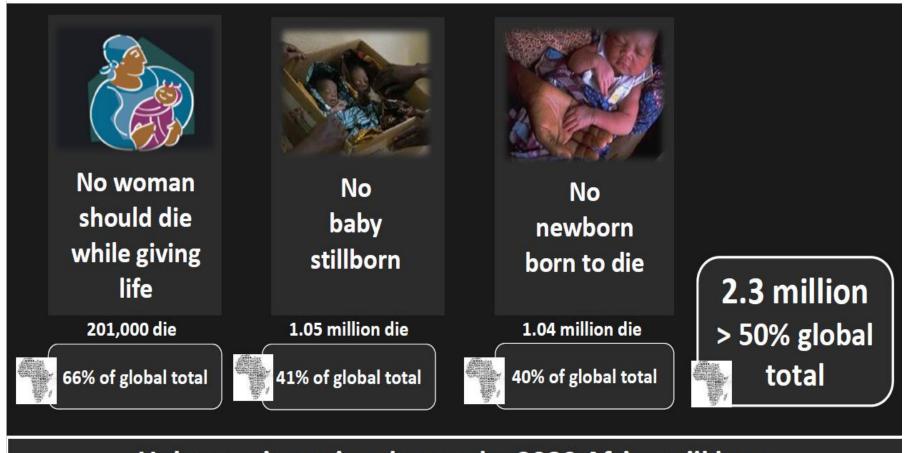
Major focus on maternal and newborn

GLOBALLY in the Sustainable Development Goal era



~10 million deaths of women and children, > 50% related to pregnancy and birth Requires all types of research and also much more visibility

Africa is 13% of the global population but carries the greatest burden



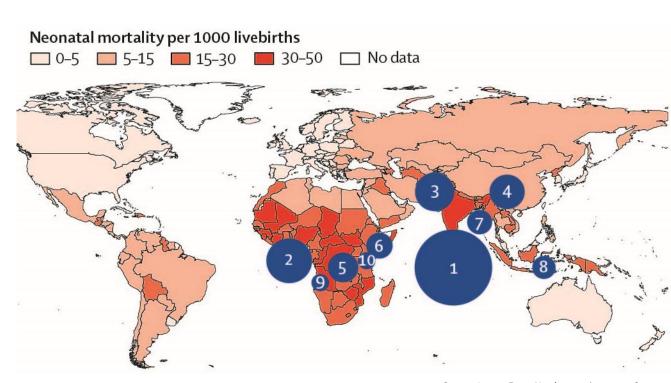
Unless trajectories change, by 2030 Africa will have >75% of global maternal deaths plus >66% of newborn deaths & stillbirths

Where?

Countries with highest neonatal mortality rates & those with biggest numbers

Countries with biggest numbers of neonatal deaths

- 1. India (779,000)
- 2. Nigeria (267,000)
- 3. Pakistan (202,400)
- 4. China (157,400)
- 5. DR Congo (118,100)
- 6. Ethiopia (87,800)
- 7. Bangladesh (75,900)
- 8. Indonesia (72,400)
- 9. Angola (41,200)
- 10. Kenya (40,000)

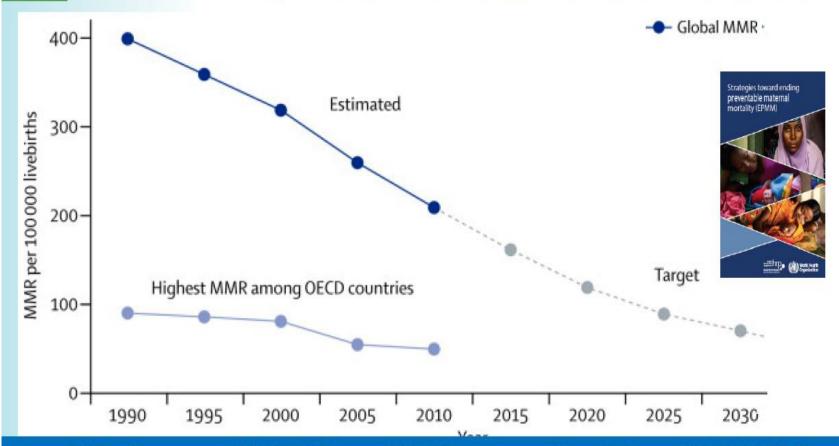


Source: Lancet Every Newborn series, paper 2



Target 3.1: Ending preventable maternal deaths

Target also in Global Strategy, Ending Preventable Maternal Mortality, & Every Newborn Action Plan

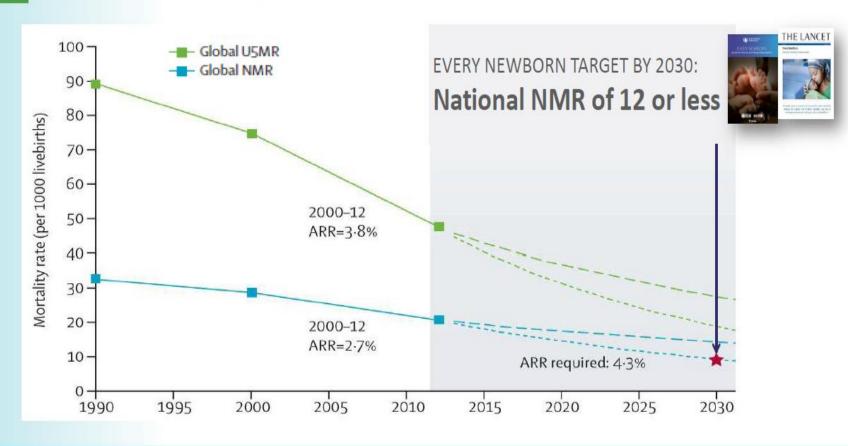


Global average MMR of 70 per 100,000, no country >140 per 100,000 births
61 countries with MMR >above 140, of which 43 are in Africa
WHO finalising toolkit to guide national target setting



Target 3.2 Ending preventable child and newborn deaths

Targets also in Global Strategy, Every Newborn Action Plan, and A Promise Renewed

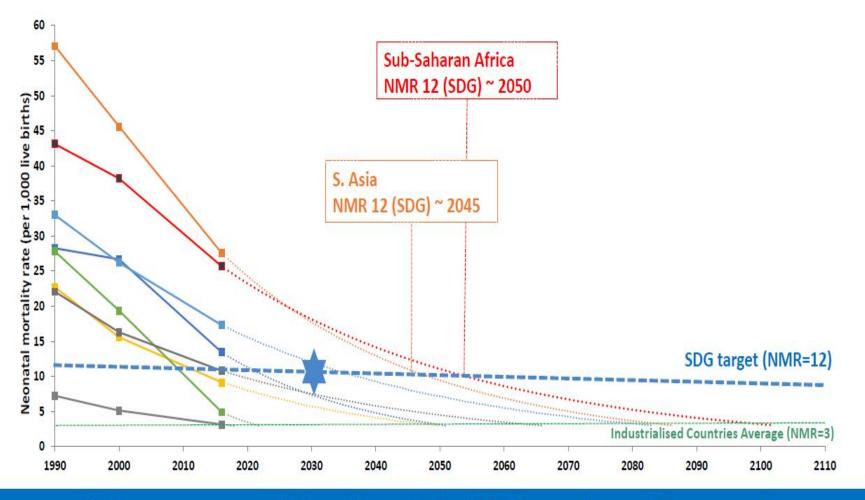


~100 countries already below 12 per 1000 – focus on equity gaps ~40 countries will have to more than double their rates of progress, almost all in Africa So far 26/46 sub Saharan African countries have set Neonatal targets

Gap for Newborn Survival by region



Projected time by region to reach SDG national target (NMR = 12) & average for high-income countries (NMR = 3)

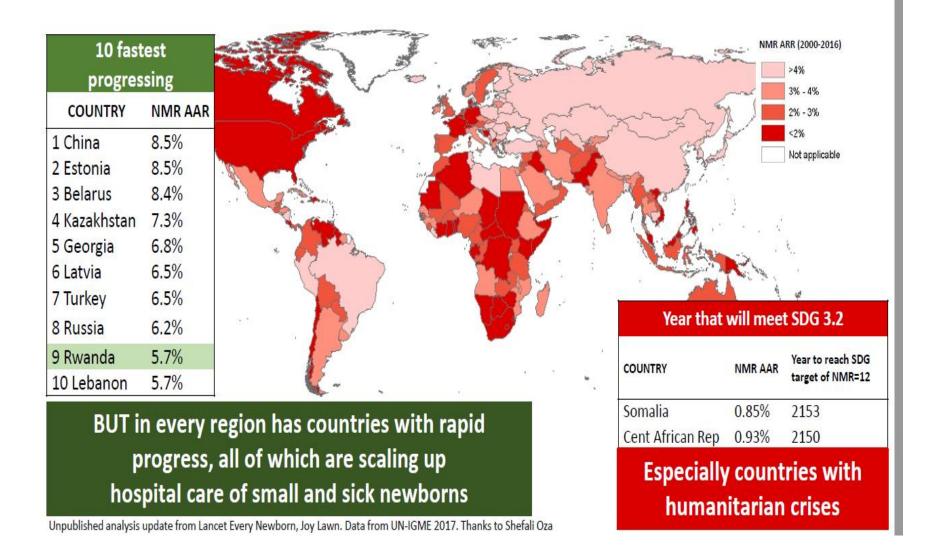


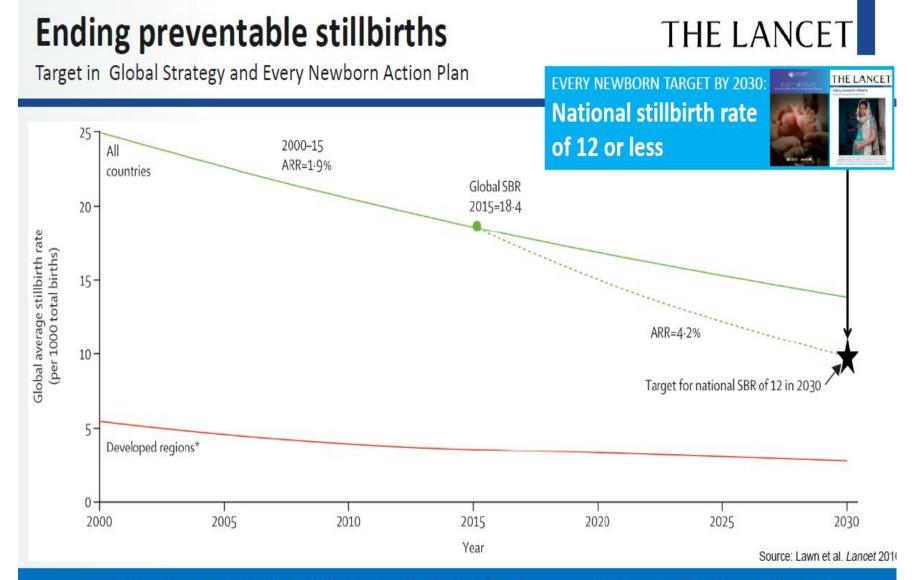
Unless we act now, Africa will reach the SDG for newborns 20 years too late Almost 100 years before African newborns have same survival chance as high-income countries

Gap for newborn survival SDG progress by country



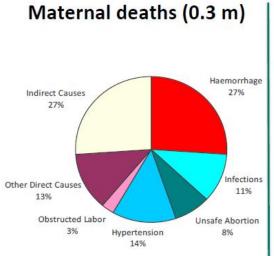
Variation between countries for Average Annual Rate of Reduction(AARR) for NMR: 2000-2016

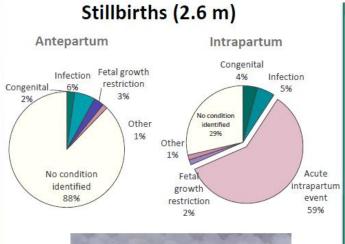


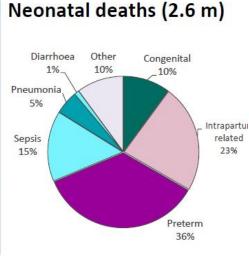


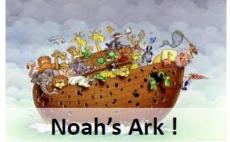
~60 countries need to at least double their rate of progress... BUT still not in SDGs So far 11/46 sub-Saharan African countries have set targets

Causes of death









Maternal: Say et al 2014 Stillbirths: Lawn et al 2016 Neonatal: Liu et al, 2016

The "Big Five" underlying conditions and pathways to target

Global number of maternal, neonatal deaths and stillbirths (approx)

Childbirth complications

e.g. haemorrhage, obstructed labour

~ 2.1 million

Preterm birth complications

~1.1 million

Infections

Mother - HIV, syphilis, malaria, maternal sepsis, Baby - sepsis, pneumonia, diarrhoea, tetanus

~1 million

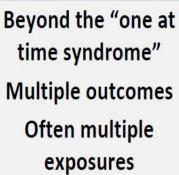
Maternal chronic conditions (NCDs)

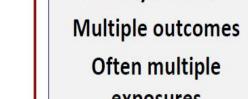
e.g. hypertension, diabetes, (linked to preterm, small for gest age, congenital abnormalities)

~1 million (and also risk factor in many deaths)

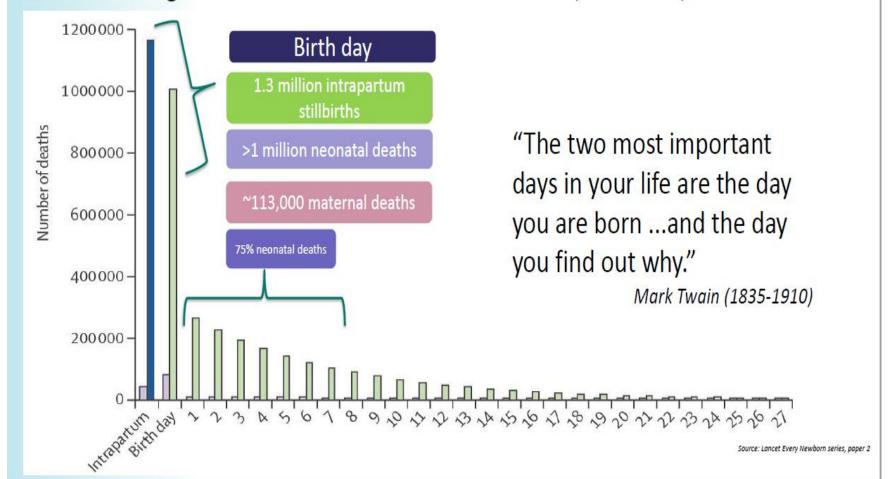
Nutrition (undernutrition and obesity)

Underlying risk factor in many deaths





Birth: the highest risk is at the same time for women, stillbirths, and newborns



Birth is the time of greatest risk of death and disability

TRIPLE return on investment – quadruple if count child development outcomes
Intrapartum stillbirth is the most sensitive outcome indicator of quality of care at birth

5 things to do differently

Integrated Plans

Integrated service delivery, continuum of care, coordination

Intentional leadership development

Especially in countries with highest burden

Investment for impact

Governance, community participation, partner alignment

Implementation with Innovation

Address health system bottlenecks, especially healthworkers



Indicators & metrics

Targets in post 2015 Measurement of progress and impact





 Acknowledgement: Prof. Joy Lawn and the MARCH Centre, LSHTM

 The Maternal Newborn and Child Health centre of Excellence, Makerere University Take risks. Ask big questions. Don't be afraid to make mistakes; if you don't make mistakes, you're not reaching far enough.

Daviu rackaiu

With great privilege comes great responsibility #FAMSA@50+