



Scaling Up Integrated Management of Newborn and Childhood Illnesses (IMNCI) Strategy in Uganda

Concurrent Session ID C35

Child Health Task Force Conference, June 2023

Overview

- **Welcome & Introduction** Assoc Professor Peter Waiswa
- **Scaling up IMNCI in Uganda** Ms. Agnes Namagembe
- **Panel Discussion- Q&A** Dr. Jesca Nsungwa (MOH), Dr. Bodo Bongomin (WHO), Dr. Emma Mugisa (USAID)
- **Closing Remarks** Assoc Professor Peter Waiswa



**Dr. Peter Waiswa,
Moderator**
Associate Professor at
Makerere University School of
Public Health and leads its
Center of Excellence for
Maternal, Newborn, & Child
Health



**Ms. Agnes Namagembe,
Speaker**
MCH Specialist at FHI
360 led USAID Maternal
Child Health and Nutrition
Activity-Uganda.



**Dr. Jesca Nsungwa,
Panelist**
Commissioner of
Reproductive and Child Health
Department - Ministry of
Health, Uganda



**Dr. Bodo Bongomin,
Panelist**
National Professional Officer
of Child and Adolescent
Health- WHO Uganda.



**Dr. Emmanuel Mugisa,
Panelist**
Project Management Specialist
for Child Health and Nutrition
at USAID mission Uganda.



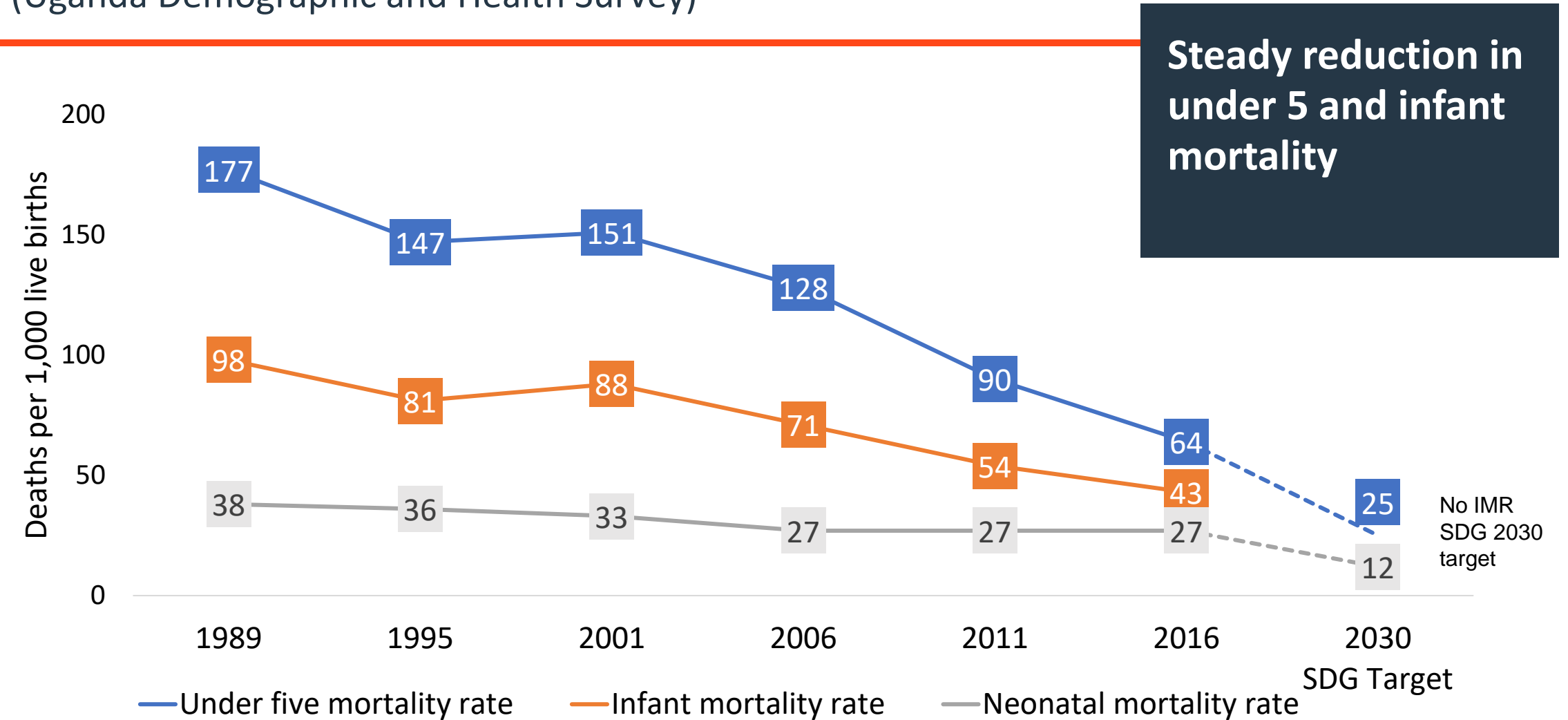
Uganda's Journey of Scaling Up Integrated Management of Newborn and Childhood Illnesses (IMNCI) Strategy

Agnes Namagembe, MCH Specialist

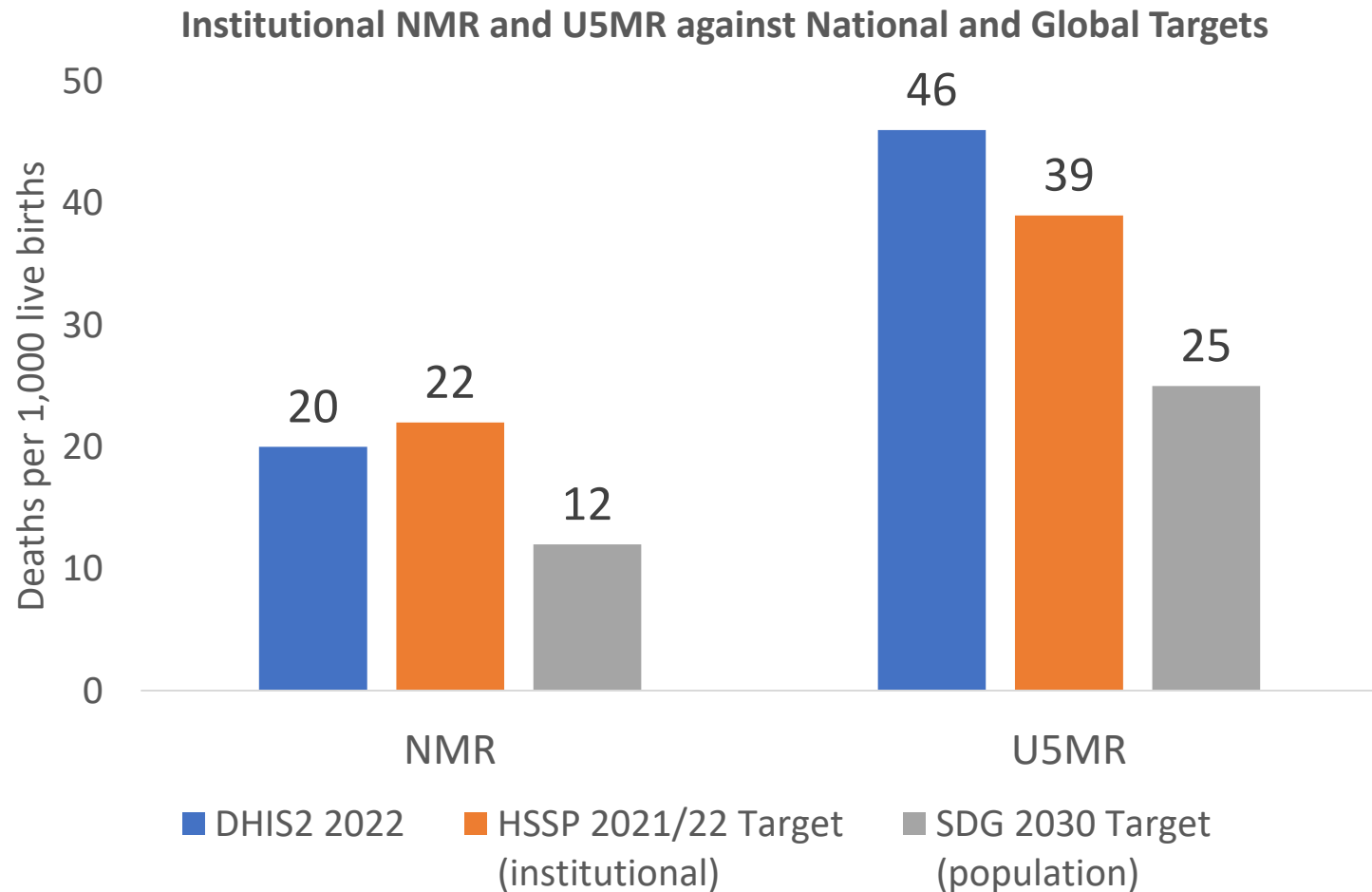
USAID Maternal Child Health and Nutrition Activity

Trends in childhood mortality from 1989 to 2016

(Uganda Demographic and Health Survey)



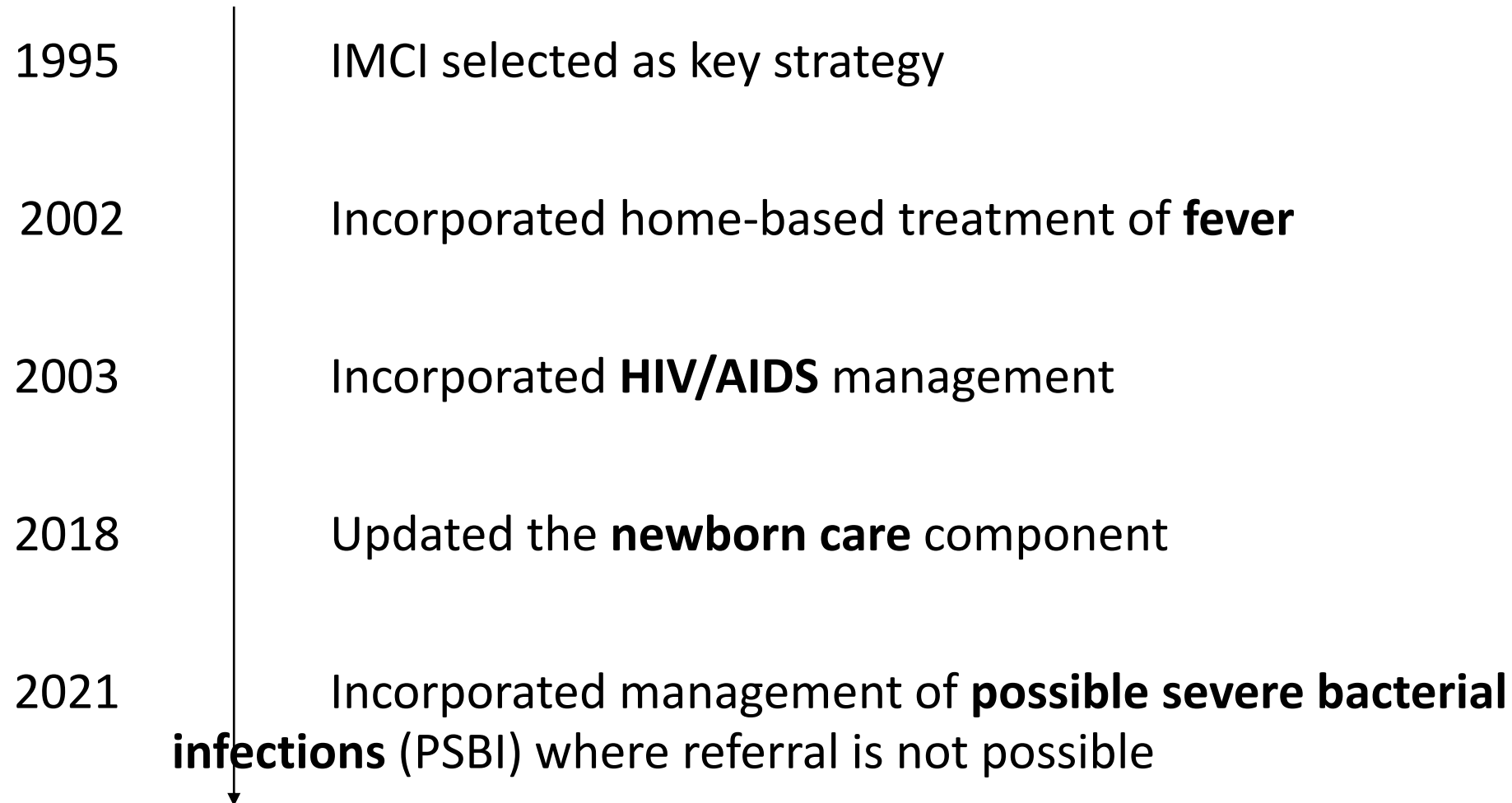
Mortality burden remains high*



- Malaria and pneumonia are the leading causes of U5 deaths
- Fall in diarrhea, severe malnutrition, and pediatric HIV

**Limitation – institutional data does not account for community deaths*

Expanding Integrated Management of Childhood Illnesses (IMCI)



Scaling up IMCI by modifying the training delivery model

Lesson 1



Challenges affecting scale-up

- **1996: Original IMCI training**
 - Health workers were brought to a centralized location for **11 days of off-site training**
- **Challenges**
 - **Costly** (safari day allowance per health worker, venue, trainer fees)
 - **Highly disruptive of routine healthcare delivery**
 - **Difficult to sustain capacity** with high staff transfers and turnovers

Strategies to address training challenges

- **2008: WHO released the first IMCI Computer-based Adaptation and Training Tool (ICATT)**
 - Piloted 3 approaches: classroom-based with individual computers, projector, and distance learning
- **2015-2017: Uganda rolled out IMCI ICATT**
 - **IMCI Impact Study and IMCI ICATT Evaluation** by WHO and UNICEF set a basis for country to adopt abridged models of training
 - 2017: Uganda benchmarked IMCI distance learning implementation in Tanzania
- **2018: MOH developed and piloted two modified approaches** to capacity building in IMCI with partner support
 - **Short Interrupted Course (SIC)**
 - **Distance Learning Course (DL)**

Targeted cadres for training:
Pediatricians, medical officer, clinical officer,
nurses, and midwives

Uganda's IMCI Training Evolution

1996	IMCI 11-day training strategy developed and piloted in 2 districts
1998	Rolled out national IMCI trainings – 11-day trainings by Makerere pediatricians
1999	IMCI incorporated into medical students' pre-service training
2000	IMCI incorporated into supervision system and nursing students' pre-service training
2015-2017	Rolled out IMCI Computer-based Adaptation and Training Tool (ICATT)
2018 districts each	IMNCI short interrupted course (SIC) and distance learning (DL) courses piloted in two
2019-date	Scaling up using modified courses

IMCI Computer-based Adaptation and Training Tool

IMCI Computer-based Adaptation and Training Tool (ICATT)



Support person sets up computers at health facilities and orient learners on how to access ICATT modules on the computer



Learners undergo 2 weeks of self-study using the computer

Venue: onsite at health facility

Number of days: 14 days

Trainer: no, self-study

Key inputs: computer, electricity

Pros:

- Cheaper (no safari day allowance, venue, trainers needed)
- Not disruptive to service delivery (self-paced, outside of clinic hours)

Cons:

- Limited computer literacy
- Most sites only had 1 computer per site (limited access)
- Lack of reliable power supply
- Inadequate support material

Reach

- ✓ 123 health workers
- ✓ 15 / 146 districts

Distance Learning Course

Reach

- ✓ 235 health workers
- ✓ 2 /146 districts

Distance Learning (DL) Course



1-day offsite orientation of the IMNCI guidelines



3-4 weeks self-study and case practices



1-day offsite review and practice meeting



8-9 weeks self-study and case practices



1 –day offsite review and final synthesis

Venue: hybrid

- Trainer convenes learners convene at centralized, offsite location
- Learner also practices self-study and supervised case practices onsite and interactions via WhatsApp

Number of days: 84 days (12 weeks) total; 3/84 days offsite

Key inputs: printed materials and trainers

Pros:

- Cheaper (3 days safari day allowance vs. 11 days in the original IMCI model)
- Minimized disruption to service delivery
- Phased learning allows time to grasp, internalize and practice

Cons:

- Longer periods to complete course
- Lower-level cadres struggled to internalize content on their own; coupled with low reading culture

Short Interrupted Course

Reach

- ✓ 1258 health workers
- ✓ 31/146 districts

Short Interrupted Course (SIC)



2 ½ days offsite orientation of the IMNCI guidelines



2 weeks self-study and case practices



1 ½ days review and final synthesis

Venue: hybrid

- Trainer convenes learners convene at centralized, offsite location
- Learner also practices self-study and supervised case practices onsite and interactions via WhatsApp

Number of days: Actual days is 18 days, but the course can run up to 28 days (4 weeks) total; 4/14 days offsite

Key inputs: printed materials and trainers

Pros:

- Cheaper (4 days safari day allowance vs. 11 days in the original IMCI model)
- Minimized disruption to service delivery
- Phased learning allows time to grasp, internalize and practice

Cons:

- Challenging to organize mentorship and support all health workers within two weeks self study period

Nurses at Naguru Hospital- Kampala engaged in self-study of IMNCI during the short-interrupted course

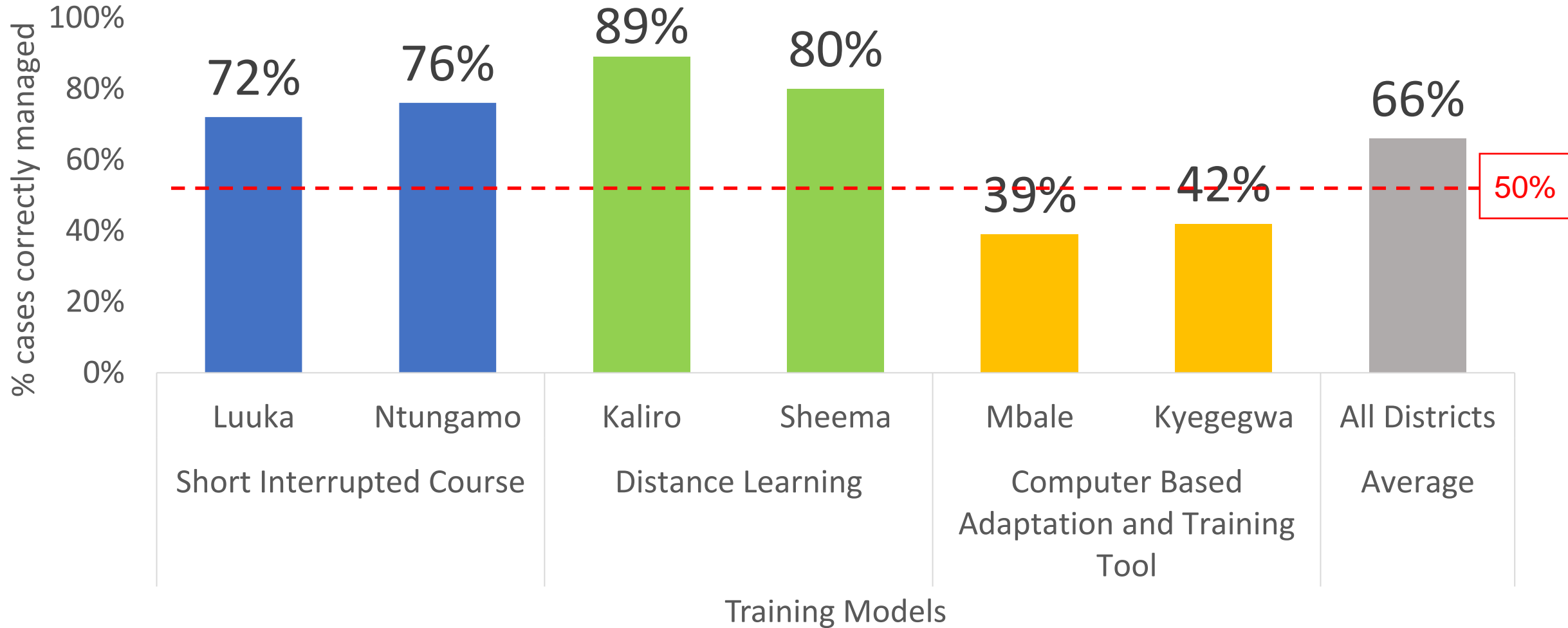
Photo Credit: **Ronald Mutumba**- USAID MCHN Activity



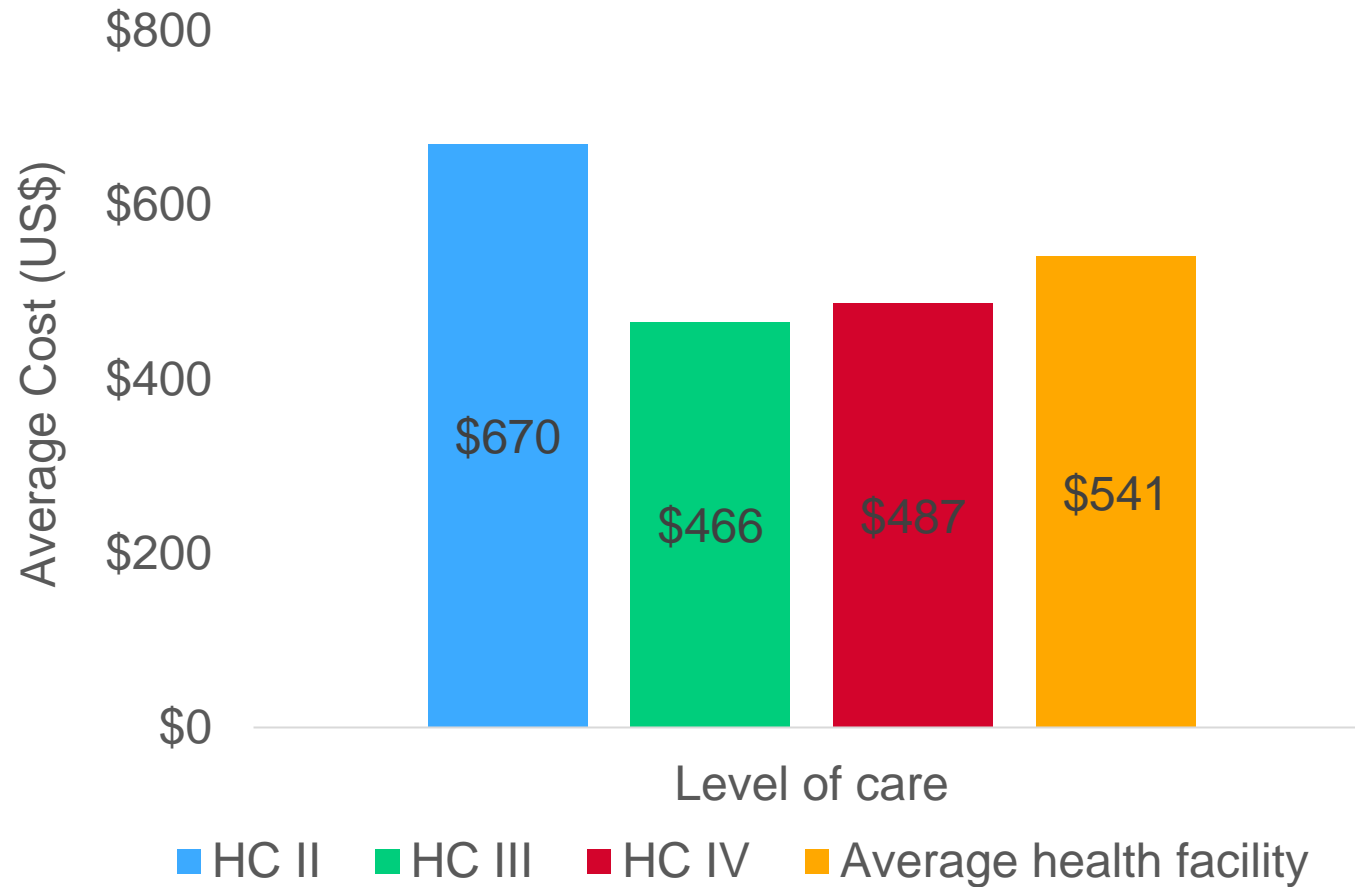
Evaluation

- **Objective:** to assess the process and outcome of early implementation of the modified IMNCI training delivery models in Uganda to guide decision-making on scale-up of IMNCI training
- **Mixed Methods**
 - Desk review
 - Key informant interviews
 - Focus Group Discussion with health workers, trainers and tutors trained
 - Case observations (management of sick children)
 - Exit Interview Assessment on the quality of IMNCI services offered

Proportion of cases correctly managed by training models compared to the national threshold



Average cost of training and mentoring a health facility with the DL or SIC approaches by level of care



Avg. cost of training and mentoring a health facility is \$541

Program costs:

- Venue
- Printing
- Transport
- Per diem
- Trainers
- 2 mentorship visits



Scale up....

- Both SIC and DL approved models for scaling up IMNCI



Sustaining training gains through quality improvement (QI)

Lesson 2

Quality improvement change packages

1

Providing appropriate care to children with cough or difficulty breathing

- Weekly CMEs with drills on diagnosis and prescriptions
- Orientation of all clinicians on IMNCI guidelines
- Displayed algorithm at clinical areas
- Proper quantification of stock of drugs
- Duty plan: specified staff attending OPD

2

Correctly assessing, categorizing, and treating children with fever

- Extracted and pinned IMNCI guidelines on management of fever at consultation rooms/triage areas
- Reviewed the client flow, and identified step for taking temperature and the other vitals
- Implemented internal data quality checks

Additional lessons learned

- **District involvement important:** districts teams supported sustainable mentoring and supervision IMCI implementation
- **Mentorship and networking:** Post training follow-up involved case observations and use of WhatsApp groups; this has the potential to build stronger, localized networks of mentorship
- **Onsite training:** onsite advantageous compared to offsite trainings
 - ✓ Health workers can practice what they have learned in a 'real life' setting and in a setting they are already familiar with
 - ✓ It is a more sustainable model enabling district mentors and peer learners to train and cascade learning, minimal disruption of work

Unfinished business...

We have persistent challenges...

- Irregular support supervision
- Suboptimal quality of care
- Commodity stockouts

This requires a whole health systems approach to sustain training gains and improve child health

Conclusion

- Modifying the training delivery to achieve critical numbers of trained health workers combined with integrated QI practices enabled the scale-up of IMNCI in Uganda
- Quality improvement helps health workers to sustain training gains



Panel Discussion



Tell us about the introduction of alternative IMNCI training delivery models in Uganda. What are key considerations for selecting a suitable training model?

For Dr. Bodo Bongomin

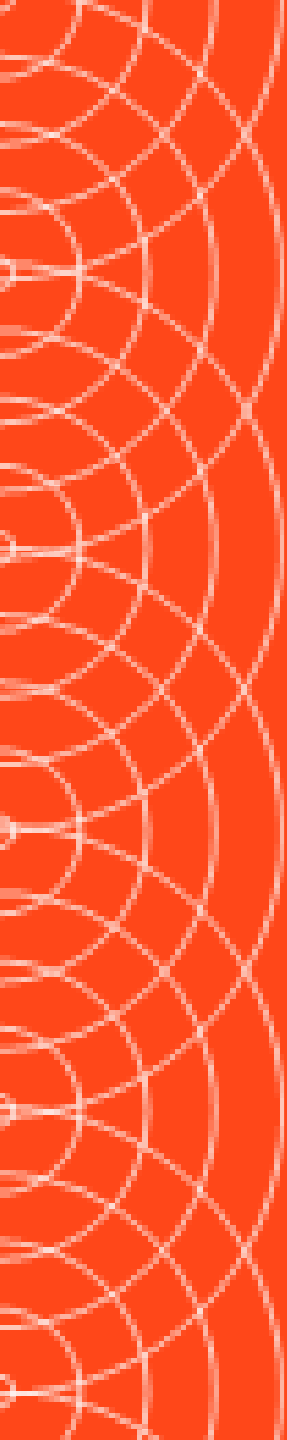
National Professional Officer Child, Adolescent Health and Nutrition- World Health Organization, Uganda



Based on your experiences in Uganda, what challenges will countries likely meet and need to address when introducing alternative IMNCI training delivery models?

For Dr. Jesca Nsungwa

Commissioner of Reproductive and Child Health, Ministry of Health



Given USAID's long history in supporting the roll out of IMNCI in Uganda, what are your key take aways as a development partner representative for scaling up IMNCI?

For Dr. Emmanuel Mugisa

Program Management Specialist for Child Health and Nutrition, USAID Uganda