Program No. SY(T9)5

Improving the quality of child malnutrition data for SDG monitoring: mapping the unfinished research agenda

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Conflict of Interest Disclosure

I have no conflict of interest to report in relation to this presentation.

Anthropometry Research Working Group

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Accurate anthropometric data are critical to inform policy and programs
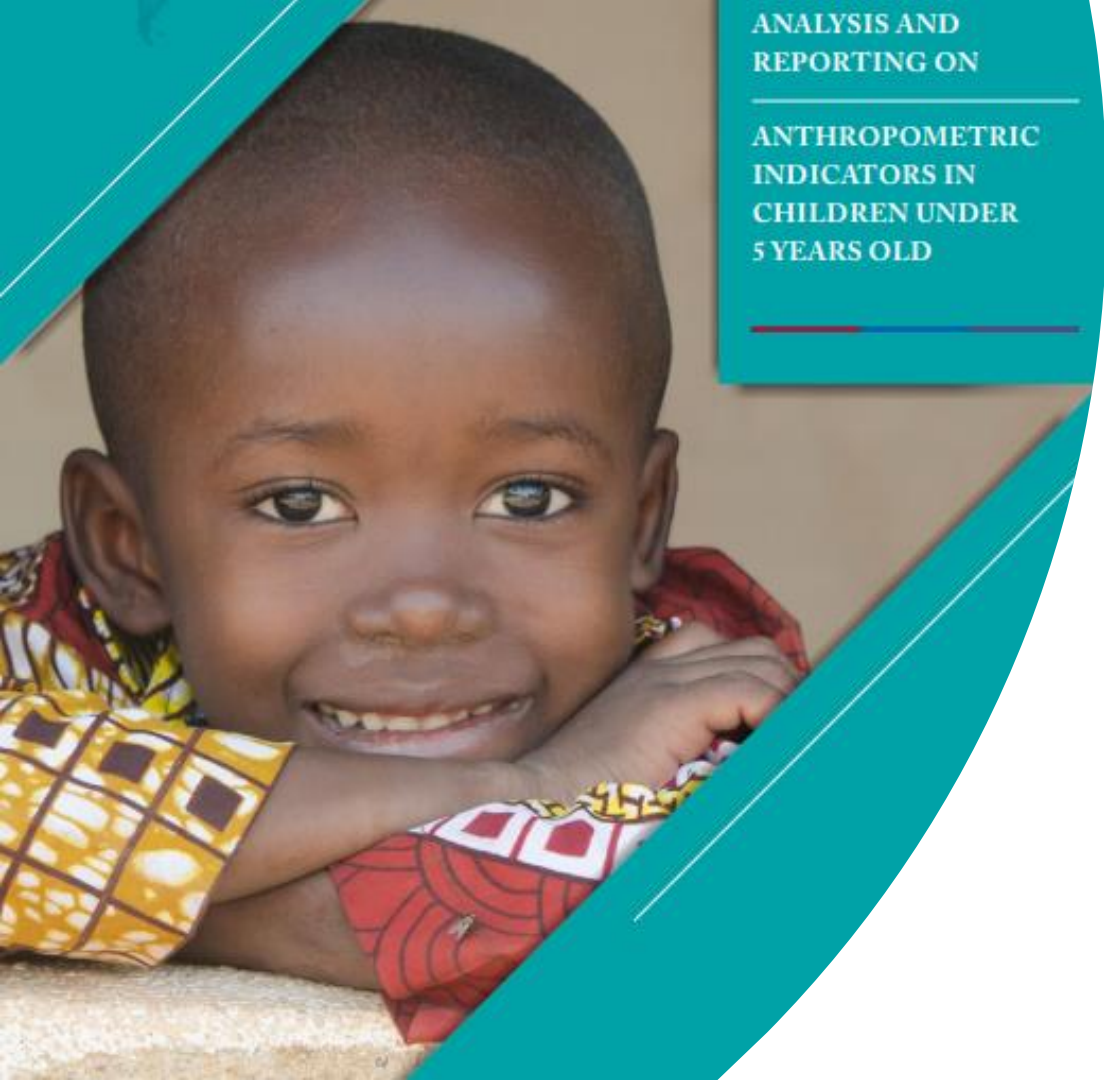
22% stunted

6% moderately/ severely overweight
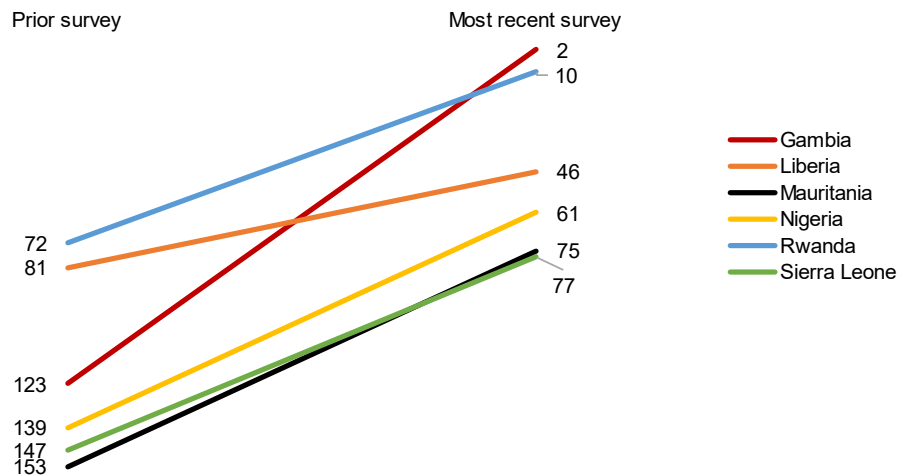
7% moderately/ severely wasted

ANALYSIS AND REPORTING ON

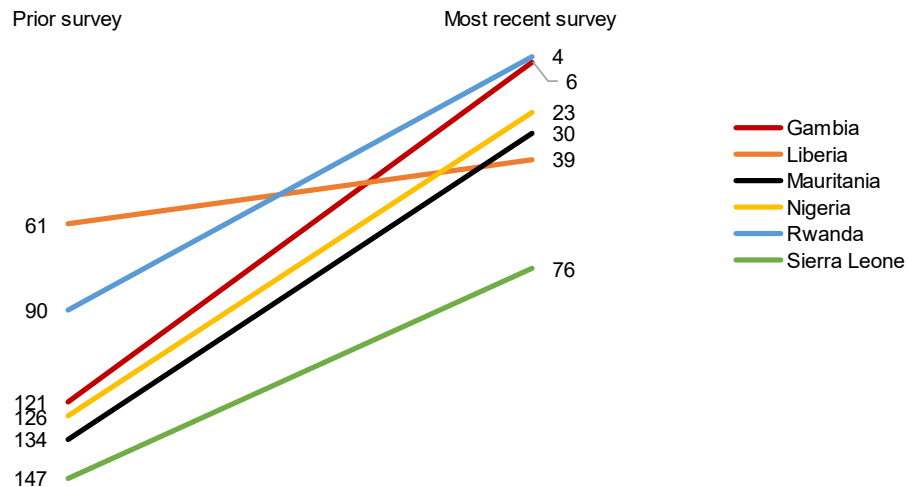ANTHROPOMETRIC INDICATORS IN CHILDREN UNDER 5 YEARS OLD

Informed by evidence and practical experience

Impact of enhanced training and data quality procedures on anthropometric data quality

Height-for-Age/Stunting ranking

Weight-for-height/Wasting/Overweight ranking

Research Agenda

Definition and use of biologically and statistically derived anthropometric z-score flag values

Thresholds for anthropometric data quality indicators

Identification and disentanglement of random and systematic error

Research Agenda

Making the standardization process easier to administer during training

Accuracy of collecting a single versus multiple height measurements

Minimizing the impact of hair and clothing obstruction in height and weight measurements

Research Agenda

Best practices and value of conducting re-measurement during field work

Effective collection of age data to generate anthropometric z-scores

Innovations in measurement equipment

Types of research studies

Desk reviews

Key informant interviews

Delphi method

Secondary analysis

Simulation modelling

Efficacy studies

Effectiveness studies

Systematically review protocols on the assessment of date of birth

Types of research studies

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Solicit information from survey experts on what is working well and challenges with re-measurement procedures

Types of research studies

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Effectiveness studies

Define the minimum and ideal parameters for height/length and weight technologies suitable for use in population-based

Types of research studies

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Effectiveness studies

Develop recommended thresholds for data quality indicators using a pooled dataset consisting of data known to be of high-quality

Types of research studies

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Key informant interviews

Delphi method

Secondary analysis

Simulation modelling

Efficacy studies

Effectiveness studies

Modify the number of total kids and the proportion of children in different age strata included in a standardization exercise

Types of research studies

Desk reviews

Key informant interviews

Delphi method

Secondary analysis

Simulation modelling

Efficacy studies

Effectiveness studies

Height/length taken as :

A. Single measure by gold standard

B. Three measurements by "typical" fieldworker

C. Two measurements by two different "typical" fieldworkers

Types of research studies

Desk reviews

Key informant interviews

Delphi method

Secondary analysis

Simulation modelling

Efficacy studies

Effectiveness studies

Collection of weight and height/length data from children aged 0–59 months using global guidance on mitigation of hair ornaments, hairstyles or headwear, clothing, or jewellery interference

Where are we going from here…

Release of research briefs

- definition of the problem
- research questions
- type of research
- outcomes
- data source

Seeking support on 3 of the 9 briefs

- WHO and statistical flagging
- Data quality thresholds
- Random and systematic error

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Thank you!