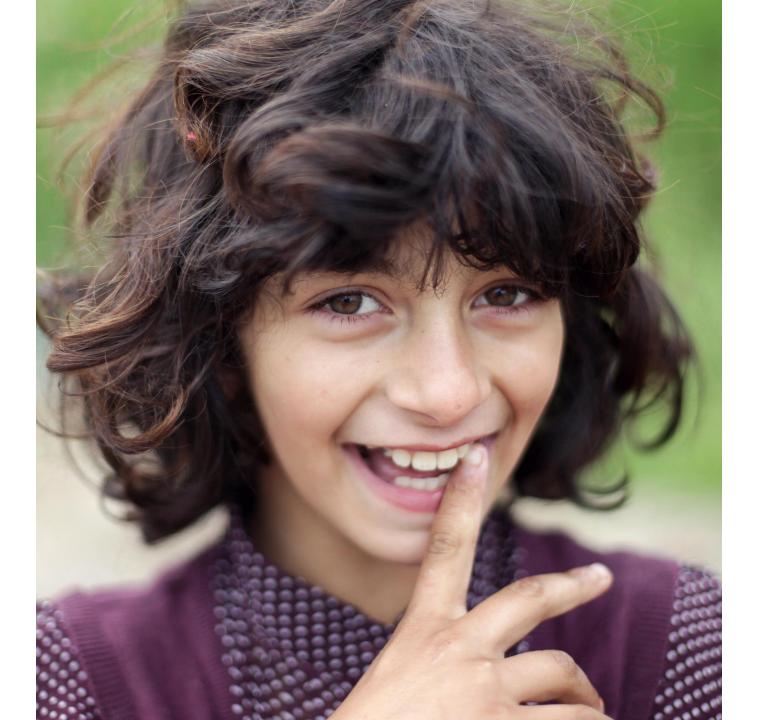


#### Measuring children's time use in MICS

Lauren Pandolfelli & Eva Quintana, Division of Data, Analytics, Planning & Monitoring, UNICEF EG-TUS Meeting, 31 January – 1 February, 2024, Online





#### **OVERVIEW**

01.

**OBJECTIVE** 

02.

WHY MEASURE CHILDREN'S TIME USE?

03.

CHALLENGES & CONSIDERATIONS
INTEGRATING A CHILDREN'S TIME
USE MODULE INTO MICS

04.

OVERVIEW OF MICS FIELD TESTS
AND LESSONS LEARNED

05.

**NEXT STEPS** 

#### Objective

To develop a household survey module measuring children's time use at the population-level for inclusion in the UNICEFsupported Multiple **Indicator Cluster Surveys** (MICS)



# Why measure children's time use?

- How children spend their time affects their wellbeing and shapes their opportunities (e.g. unpaid care and domestic work may be associated with schooling, learning, socializing)
- Relevant to monitoring SDG 5 on Gender Equality:
- Gender disparities in time use begin to form in childhood but focus of TU data collection efforts is on adult population
- No standard data collection tools to measure children's TU

Why measure children's time use in MICS?

Type of activities child engages in (sleeping, playing, schooling, socializing, etc)

Children's

Time allocation by activity

Evidence-based programming

Education

Adolescent wellbeing

Social protection

Gender

equality

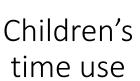
Health

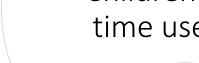
Poverty alleviation

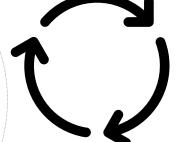
**Determinants** 

**Individual factors** (age, sex, disability status, religion, ethinicity, marital status, educational attainment)

> Household, environmental factors (residence, wealth, household composition, emergency affectedness status)







Multidimensional poverty

health Outcomes in

children's wellbeing

Quality of life

Mental

Health

Educational achievment

## Challenges & considerations integrating a children's time use module in MICS

- Seasonality bias
- Accurate reporting of timing and duration of activities in more traditional rural settings
- Enumerator training requirements
- Respondent burden associated with integrating TU module into multipurpose household survey

#### Challenges (cont'd): Self vs proxy reporting



Is there social desirability bias when caregivers report? (e.g. under/over reporting of stigmatized/desirable activities)

How accurate is caregivers reporting? Do they know what children are doing?

At what age can children self-report?



Parents underreport girls' domestic work (Levison 2000)

Social desirability bias by proxy respondent may decrease with age (Janzen 2016)

Discrepancies in time spent in paid/unpaid work, sleep and leisure

Few discrepancies in time spent learning (Rost 2020)

From age 8-10, most children can report on their own time (Eurostat 2016)

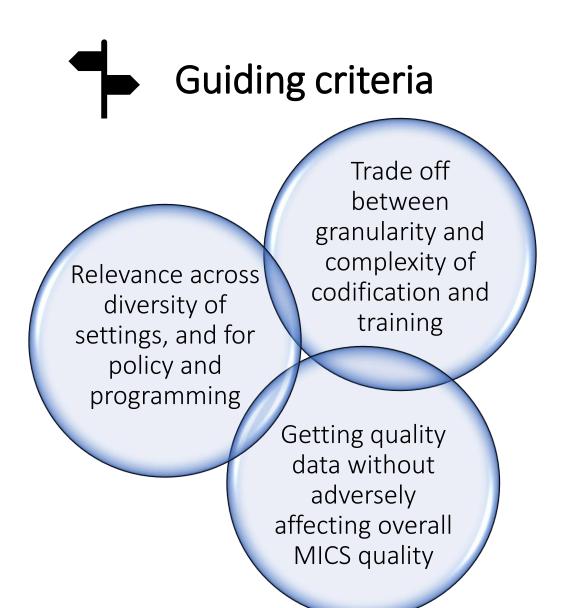
TU instruments typically completed by caregivers of children 12 yrs. or younger and by children themselves, 13-17 yrs.

#### Overview of field testing children's time use module in MICS



#### Field testing

- Stylized questions vs. time diary
- Child versus caregiver reporting
- Adequacy of time use categories adapted from ICATUS 2016
- Additional respondent burden in multi-topic survey
- Low literacy, rural settings
- Enumerator training



#### Overview of field tests (cont'd.)

	Malawi (2017)	Belize (2019)	Zimbabwe (2022)
Instrument	Stylized questions with 2 reference periods (7 days & 24 hrs.)	Survey-based time diary (past 24 hrs.) Adaptation of ICATUS 2016 to prioritize children's activities	Survey-based time diary (past 24 hrs.) Further adaptation of ICATUS 2016 Introduction of contextual questions
Sample design	Split purposive sample of 447 households in 2 rural districts (Nkhata Bay and Balaka)	Probability-based sample of 680 households in 2 districts (mostly rural; urban)	Purposive sample of 250 households in urban, periurban and rural settings in Mutare
Respondent	Proxy reporting by <b>primary caregiver</b> of children aged 5-17	Proxy reporting by <b>primary caregiver</b> of children aged 5-17	Self-reporting by adolescents aged 15-17 and proxy reporting by primary caregiver of adolescents aged 15-17
Implementing partners	UNICEF Malawi & Malawi National Statistical Office	UNICEF Belize & Statistical Institute of Belize	UNICEF Zimbabwe & Zimbabwe National Statistics Agency

#### Lessons learned

- In general, respondents pleased to speak about their day/their child's day
- Stylized questions versus time diary
  - Respondent fatigue observed with stylized questions, potentially owing to cognitive burden of retrieval and aggregation
  - Diary performed better, although detailed probing is needed to avoid gaps in accounting of activities
- Some difficulty collecting accurate information in low-literacy settings
  - Non-numeric responses ("a bit", "not long", etc.) required time estimation after extensive probing

#### Lessons learned (cont'd.)

Child self reporting versus care-giver proxy reporting:

- Caregivers not as able to report child's activities and duration when child away from home
- Caregivers found it harder than children to report activities children were engaged in, even when children at home

#### Lessons learned (cont'd.)

- Quality data depends on good interviewer-respondent rapport and strong interviewing skills
  - Interviewing techniques differ from typical MICS survey administration (facilitated conversation rather than scripted set of questions)
- With adequate training and practice, interviewers' probing and activity coding skills significantly improve
- CAPI can minimize entry and estimation errors with prompts and consistency checks but can interfere with interview's flow
- Training manuals need to be customized to provide country-relevant examples to aid in activity coding
- Sufficient time for training is critical

#### Lessons learned (cont'd.)

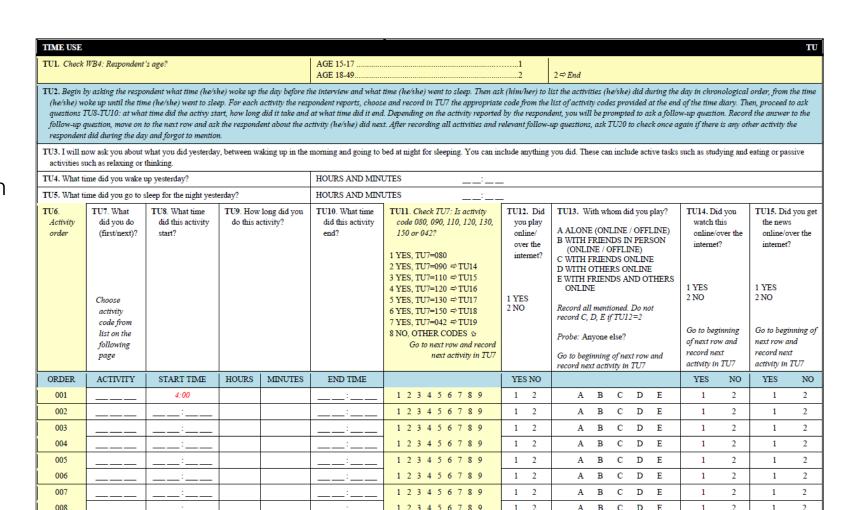
Developing a time diary meaningful for children involved:

- Re-classification and re-grouping of ICATUS domain activities and introduction of new activity labels to prioritize children's activities and align with UNICEF programming
- Examples School attendance in person/remote, gaming separately from play, socialization in person/through digital technologies, social media as entertainment
  - > Tradeoff between granularity and complexity of coding and interviewers' training
- Introduction of contextual questions related to homework support/tutoring, digital/online engagement associated with learning, socialization and civic participation (Zimbabwe)
- ICATUS activities adaptation and contextual questions were understood, but small samples did not capture low prevalence activities in testing locations

#### Next steps

Time use module for children 10-17 yrs. now available as complementary topic in MICS7 (2023-2026)

- Direct reporting for children aged 15-17
- Proxy reporting by caregiver for children aged 10-14
- Tool package includes administration guidelines, interviewer's instructions, protocols, ethical considerations for interviewing children and tabulation plan
- Further methodological work to lower direct reporting for children 10-14 as well as to collect time use data for children below age 10





### Thank You

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