

Pakistan - Multiple Indicator Cluster Survey 2017-2018, Punjab

Bureau of Statistics, United Nations Children's Fund

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Overview

Identification

ID NUMBER

PAK_2017_MICS-PUN_v01_M

Version

VERSION DESCRIPTION

- v01: Edited, anonymous datasets for public distribution.

Overview

ABSTRACT

The MICS Punjab, 2017-18 has as its primary objectives:

- To provide high quality data for assessing the situation of children, adolescents, women and households in Punjab;
- To furnish data needed for monitoring progress toward national goals, as a basis for future action;
- To collect disaggregated data for the identification of disparities, to inform policies aimed at social inclusion of the most vulnerable;
- To validate data from other sources and the results of focused interventions;
- To generate data on national and global SDG indicators;
- To generate internationally comparable data for the assessment of the progress made in various areas, and to put additional efforts in those areas that require more attention;
- To generate behavioural and attitudinal data not available in other data sources.

UNITS OF ANALYSIS

- Individuals
- Households

Scope

NOTES

The scope of the Multiple Indicator Cluster Survey 2017-18 includes:

- **HOUSEHOLD:** List of Household Members, Education, Disability, Household Characteristics, Social Transfers, Remittances and Cash Donations, Household Energy Use, Water, Sanitation, Handwashing and Salt Iodisation.
- **WOMEN/MEN:** Woman's Background, Mass Media and ICT, Marriage, Fertility [M]/Birth History, Desire for Last Birth, Maternal and Newborn Health, Post-natal Health Checks, Contraception, Unmet Need, Attitudes Toward Domestic Violence, Victimization, HIV/AIDS, Maternal Mortality, Tobacco Use, Life Satisfaction and The individual Questionnaire for Men only included those modules indicated.
- **CHILDREN (AGE 5-17 YEARS):** Child's Background, Child Labour, Child Discipline, Child Functioning, Parental Involvement and Foundational Learning Skills.
- **CHILDREN (UNDER 5):** Under-Five's Background, Birth Registration, Early Childhood Development, Child Discipline, Child

Functioning and Breastfeeding and Dietary Intake, Immunisation, Vitamin A Supplementation, Care of Illness and Anthropometry.

Coverage

GEOGRAPHIC COVERAGE

The sample for the MICS Punjab, 2017-18 was designed to provide estimates for a large number of indicators on the situation of children and women at the Punjab level, for urban and rural areas, and for all 36 districts of Punjab.

UNIVERSE

The survey covered all de jure household members (usual residents), all women age 15-49 years, all men age 15-49 years, all children under 5 and children age 5-17 years living in the household.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Bureau of Statistics	
United Nations Children's Fund	

FUNDING

Name	Abbreviation	Role
United Nations Children's Fund		

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Development Economics Data Group	DECDG	The World Bank	Documentation of the DDI

DATE OF METADATA PRODUCTION

2019-12-05

DDI DOCUMENT VERSION

Version 01 (December 2019)

DDI DOCUMENT ID

DDI_PAK_2017_MICS-PUN_v01_M_WB

Sampling

Sampling Procedure

The urban and rural areas within each district were identified as the main sampling strata, and the sample of households was selected in two stages. Within each stratum, a specified number of census enumeration areas were selected systematically with probability proportional to size. Using the listing of households from the Census 2017 for each sample enumeration area, provided by Pakistan Bureau of Statistics, a systematic sample of 20 households was drawn in each sample enumeration area¹. The total sample size was 53,840 households in 2,692 sample clusters. All the selected enumeration areas were visited during the fieldwork period. As the sample is not self-weighting, sample weights are used for reporting survey results.

Response Rate

Response rate (Households): 97.9%

Weighting

Essentially, by allocating specific number of sample households to each of the districts, different sampling fractions were used in each district since the size of the districts varied. For this reason, sample weights were calculated which were used in the subsequent analysis of the survey data.

The major component of the sampling weight is the reciprocal of the sampling probabilities employed in selecting the number of sample households in that particular sampling stratum (h) and PSU (i).

The term f_{hi} is the sampling fraction for the i -th sample PSU in the h -th stratum and defined as the product of the probabilities of selection at every stage in each sampling stratum.

Where p_{shi} is the probability of selection of the sampling unit at stage s for the i -th sample PSU in the h -th sampling stratum.

The number of households in each enumeration block (PSU) from the frame was used for the first stage selection and the updated number of households in the enumeration block from the actual household listing is generally different. Consequently, individual overall probabilities of selection for households in each sample enumeration block (cluster) were calculated.

After the completion of fieldwork, response rates were calculated for each sampling stratum. These were used to adjust the sample weights calculated for each cluster.

The non-response adjustment factors for the individual women and under-5 questionnaires were applied to the adjusted household weights. Numbers of eligible women and under-5 children were obtained from the list of household members in the Household Questionnaire for households where interviews were completed.

The weights for the questionnaire for individual men were calculated in a similar way. In this case, the number of eligible men in the list of household members in all the MICS sample households in the stratum was used as the numerator of the non-response adjustment factor, while the number of completed questionnaires for men in the stratum was obtained from the 50% subsample of households. Therefore, this adjustment factor includes an implicit subsampling weighting factor of 2 in addition to the adjustment for the non-response to the individual questionnaire for men.

In the case of the questionnaire for children age 5-17 years, in each sample household, one child was randomly selected from all the children in this age group recorded in the list of household members. The household weight for the children age 5-17 years is first adjusted based on the response rate for this questionnaire at the stratum level. Once this adjusted household weight is normalised as described below, it is multiplied by the number of children age 5-17 years recorded in the list of household members. Therefore, the weights for the individual children age 5-17 years will vary by sample household.

For the water quality testing (both in household and at source) a subsample of 3 households was selected from the 20 MICS sample households in each sample cluster. Therefore, the basic (unadjusted) household weight would be multiplied by the inverse of this subsampling rate.

Since the response rate may be different for the water quality testing for home consumption and at the source, the basic weights for each were adjusted separately for non-response at the stratum level.

The MICS Punjab, 2017-18 full (raw) weights for the households were calculated by multiplying the inverse of the probabilities of selection by the non-response adjustment factor for each stratum. These weights were then standardised (or normalised), one purpose of which is to make the weighted sum of the interviewed sample units equal to the total sample size at the national level. Normalisation is achieved by dividing the full sample weights (adjusted for nonresponse) by the average of these weights across all households at the national level. This is performed by multiplying the sample weights by a constant factor equal to the unweighted number of households at the national level divided by the weighted total number of households (using the full sample weights adjusted for non-response). A similar standardization procedure was followed in obtaining standardised weights for the individual women, men, under-5 questionnaires and water quality testing. Adjusted (normalised) household weights varied between 0.297817 and 3.101398 in the 2,692 sample enumeration areas (clusters).

Questionnaires

Overview

Six questionnaires were used in the survey: 1) a household questionnaire to collect basic demographic information, the household, and the dwelling; 2) a water quality testing questionnaire administered in three households in each cluster of the sample; 3) a questionnaire for individual women administered in each household to all women age 15-49 years; 4) a questionnaire for individual men administered in every second household to all men age 15-49 years; 5) an under-5 questionnaire, administered to mothers (or caretakers) of all children under 5 living in the household; and 6) a questionnaire for children age 5-17 years, administered to the mother (or caretaker) of one randomly selected child age 5-17 years living in the household.

Data Collection

Data Collection Dates

Start	End	Cycle
2017-12-03	2018-03-14	N/A

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

MICS surveys utilise Computer-Assisted Personal Interviewing (CAPI). The data collection application was based on the CSPro (Census and Survey Processing System) software, Version 6.3, including a MICS dedicated data management platform. Procedures and standard programs⁴ developed under the global MICS programme were adapted to the MICS Punjab, 2017-18 final questionnaires and used throughout. The CAPI application was tested in Lahore district during December 2017. Based on the results of the CAPI-test, modifications were made to the questionnaires and application.

TRAINING

Training for the fieldwork was conducted for 22 days in November-December 2017 and for 15 days in January 2018. Training included lectures on interviewing techniques and the contents of the questionnaires, and mock interviews between trainees to gain practice in asking questions. Participants first completed full training on paper questionnaires, followed by training on the CAPI application. The trainings were conducted in two phases. The trainees spent two days in field practice and one day on a full pilot survey in Multan & Faisalabad in first phase and Lahore & Rawalpindi in second phase. The training agenda was based on the template MICS6 training agenda.

Measurers received dedicated training on anthropometric measurements and water quality testing for a total of 12 days, including two days in the field practice and pilot survey. Field Supervisors attended additional training on the duties of team supervision and responsibilities.

FIELDWORK

The data were collected by 45 teams; each was comprised of eight interviewers, one driver, two measurers, an observer and a supervisor. Fieldwork began in December 2017 and concluded in March 2018.

Data was collected using tablet computers running the Windows 10 operating system, utilising a Bluetooth application for field operations, enabling transfer of assignments and completed questionnaires between supervisor and interviewer tablets.

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Supervision

Team supervisors were responsible for the daily monitoring of fieldwork. Mandatory re-interviewing was implemented on three households per cluster. Daily observations of interviewer skills and performance were conducted.

During the fieldwork period, each team was visited multiple times by survey management team members and field visits

were arranged for UNICEF MICS Team members.

Throughout the fieldwork, field check tables (FCTs) were produced weekly for analysis and action with field teams. The FCTs were customised versions of the standard tables produced by the MICS Programme.

Data Processing

Data Editing

Data were received at the Bureau of Statistics, Punjab via Internet File Streaming System (IFSS) integrated into the management application on the supervisors' tablets. Whenever logistically possible, synchronisation was daily. The central office communicated application updates to field teams through this system.

During data collection and following the completion of fieldwork, data were edited according to the editing process described in detail in the Guidelines for Secondary Editing, a customised version of the standard MICS6 documentation.

Data were analysed using the Statistical Package for Social Sciences (SPSS) software, Version 24 Model syntax and tabulation plan developed by UNICEF were customised and used for this purpose.

Data Appraisal

No content available

Documentation

Questionnaires

Pakistan- Multiple Indicator Cluster Survey 2017-2018, Punjab: Questionnaire

Title Pakistan- Multiple Indicator Cluster Survey 2017-2018, Punjab: Questionnaire
Country Pakistan
Language English
Filename Questionnaire.pdf

Reports

Pakistan- Multiple Indicator Cluster Survey 2017-2018, Punjab: Survey Findings Report

Title Pakistan- Multiple Indicator Cluster Survey 2017-2018, Punjab: Survey Findings Report
Country Pakistan
Language English
Filename MICS SFR_Final_English.pdf

Technical documents

MICS6 Survey Planning Tools

Title MICS6 Survey Planning Tools
Language English
Filename <http://mics.unicef.org/tools?round=mics6>

MICS6 Indicator List

Title MICS6 Indicator List
Language English
Filename <http://mics.unicef.org/tools?round=mics6>

MICS6 Sampling Tools

Title MICS6 Sampling Tools
Language English
Filename <http://mics.unicef.org/tools?round=mics6>
