



Institute for Health Metrics and Evaluation

Data Release Information Sheet

Data Summary

Dataset name: Mexico Salud Mesoamérica Initiative Baseline Health Facility Survey 2013

Project name: Salud Mesoamérica Initiative Evaluation

Date of release: February 27, 2019

Summary:

The Salud Mesoamérica Initiative (SMI) focuses on reducing inequalities in maternal and child health in Mesoamerica. This dataset is the product of an SMI impact evaluation. It includes results of a baseline health facility survey conducted in the state of Chiapas in Mexico. In total, 90 facilities were surveyed. These represent facilities that provide ambulatory-, basic-, and complete-level Essential Obstetric and Neonatal Care (EONC) services. Surveyors collected data through interviews with facility personnel and direct observation. They recorded information on general facility characteristics, infrastructure, staff, supplies, equipment, and the availability of key maternal and child health care services. They also performed medical record reviews, extracting retrospective data on record-keeping, family planning, treatment practices related to uncomplicated births and medical complications experienced by mothers or infants during delivery, and child medical services.

Relevant publications and visualizations:

Mokdad AH, Colson KE, Zúñiga-Brenes P, Ríos-Zertuche D, Palmisano EB, Alfaro-Porras E, et al. Salud Mesoamérica 2015 Initiative: design, implementation, and baseline findings. *Popul Health Metr.* 2015 Feb 7; 13:3. doi: 10.1186/s12963-015-0034-4.

Acknowledgments

Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME)
- College of the Southern Border (ECOSUR)

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- Bill and Melinda Gates Foundation (BMGF)
- Carlos Slim Health Institute
- Spanish Agency for International Development Cooperation (AECID)
- Inter-American Development Bank (IDB)

File Information

Data Files

File Name	Description	Data structure
IHME_SMI_MEX_HFS_2013_DIARRHEA_Y2019M02D27 [CSV, DTA]	MEX child diarrhea medical record review	Each row represents one record. The datstat_altpid record uniquely identifies a record. This variable consists of the facility id (Fxx) + “_” + a number assigned to the medical record.
IHME_SMI_MEX_HFS_2013_HFQ_Y2019M02D27 [CSV, DTA]	MEX health facility questionnaire and observation	Each row represents one health facility. The unique facility identifier is named datstat_altpid.
IHME_SMI_MEX_HFS_2013_NO_COMP_Y2019M02D27 [CSV, DTA]	MEX antenatal care, uncomplicated delivery, and postpartum medical record review	Each row represents one record. This record contains either ANC visits, delivery care, postpartum care, or any combination of the three. The datstat_altpid record uniquely identifies a record. This variable consists of the facility id (Fxx) + “_” + a number assigned to the medical record.

Additional File Information

Inventory

A file inventory (**IHME_SMI_MEX_HFS_2013_FILE_INVENTORY_Y2019M02D27.XLSX**) contains a list of all files and information on each. This information includes file name, format (CSV, PDF, etc.), type (data, codebook, questionnaire, or documentation), description, and version date.

Language

The questionnaires and codebooks for all Belize surveys are in English. The questionnaires and codebooks for the El Salvador Baseline Health Facility Survey are in English. The questionnaire for the El Salvador Baseline Census and Household Survey is in both English and Spanish, while the codebooks are in Spanish. Questionnaires and codebooks for all other surveys are in Spanish. Some questionnaires and codebooks also include indigenous languages.

Codebooks

These contain variable names, questions (variable labels), numeric values and labels for coded values, and question types. Accents have been removed in SMI codebooks, which affects Spanish and indigenous language translations. Some codebooks, however, contain other special characters that do not display properly if a CSV is opened in Excel. Therefore, codebooks are provided in both the machine-actionable CSV format and, for reference, the human-readable XLSX format.

There are nine major types of questions found in the codebooks: calculated, checkAllItem, checkAllSummary, comment, hidden, poplist, preload, radioGroup, and text. These question types are determined by the survey software program and can be grouped into the following categories:

- Check all that apply: The check all that apply questions are labeled as either checkAllItem or checkAllSummary
- Single response option: The single response options are labeled as either poplist, preload, or radioGroup. These are defined by the type of table that was used in the DatStat survey.
- Text response: The text response is labeled as either text or comment
- Calculated or pre-populated variables: Any variable that is created by the survey software system, such as time it takes to complete the survey, is labeled as either calculated or hidden. For the purposes of this study, no birth dates or identifiable information is collected, but internal survey calculations were done based on the date of birth to determine age in years. Other examples of pre-populated variables include geographic information piped into the survey from external census data.

The codebooks contain the most accurate list of variables asked in the survey. The PDF questionnaires produced do not reflect questions that were hidden from participants and interviewers after the initial survey was published for testing and piloting purposes.

Questionnaires

For some health facility surveys, the interviews of facility personnel and direct observations of facilities were performed by two different individuals. In these instances, the data are still combined into a single data file and codebook: health facility questionnaire and observation (HFQ). However, there are separate questionnaires for the facility personnel interviews (HFQ_FAC_QUESTIONNAIRE) and observations (HFQ_OBS_QUESTIONNAIRE).

Methodological Statement

Data Collection

Data collection for the SMI-Mexico baseline measurement was conducted by El Colegio de la Frontera Sur (ECOSUR). All surveys were conducted using a computer-assisted personal interview (CAPI). The CAPI was programmed using DatStat Illume and installed onto computer netbooks. CAPI supports skip patterns, inter-question answer consistency, and data entry ranges. The aim of introducing CAPI to the field was to reduce survey time by prompting only relevant questions, maintain a logical answering pattern across different questions, decrease data entry errors, and permit rapid data verification.

The SMI Mexico Baseline Health Facility Survey was carried out between January 2013 and May 2013 in each of the selected health facilities. Two data collection teams, consisting of a total of 10 surveyors with a medical background (physicians and nurses), were deployed to conduct the SMI Health Facility Survey.

Data were collected using computer netbooks equipped with CAPI software. Field team leaders monitored the implementation of the survey and report feedback. Data collection using CAPI allowed data to be transferred instantaneously once a survey was completed via a secure connection to IHME. IHME monitored collected data on a continuous basis and provided feedback. Suggestions, surveyor feedback, and any modifications were incorporated into the instruments and readily transmitted to the field.

The research protocol was approved by the Internal Review Board of the University of Washington. All data collection instruments and procedures were approved by the Ministry of Health of Mexico.

Sampling/Population

The study design for the SMI-Mexico health facility survey provides representative estimates of key health interventions and indicators for a geographic area that approximates the lowest wealth quintile of the population of Mexico.

The primary administrative unit in Mexico is the state. Mexico has 31 states and the City of Mexico, and the state of Chiapas was purposefully selected for SMI-Mexico. From Chiapas, IDB identified 29 intervention municipalities in which to conduct the baseline SMI health facility survey for the Initiative on the basis of their high concentration of residents in the country's lowest wealth quintile, and 22 comparison municipalities with similar socioeconomic characteristics and ethnic composition. The selected municipalities fall into eight separate health jurisdictions (*jurisdicciones sanitarias*) within the state of Chiapas.

Health facility sampling

The sample of 90 health facilities was selected from a list constructed according to a referral network provided by the Mexico Secretary of Health. All facilities providing basic- and complete-level Essential Obstetric and Neonatal Care (EONC) services were included in the sample with certainty. Among ambulatory facilities and basic modified scheme rural medical units, the ECOSUR field data collection team identified those ambulatory facilities serving communities (*área geostadística básica* in urban areas and the *localidad* in rural areas) selected for the household survey, to allow for maximal data linkage. A simple random sample was drawn from this list of matched facilities to achieve the quota of 60 intervention and 30 comparison facilities. Intervention and comparison samples were selected independently.

Medical record sampling

Uncomplicated deliveries and immediate postpartum care records were collected from basic and complete level facilities, while antenatal care records were collected from ambulatory and basic facilities and diarrhea records were collected at only ambulatory level facilities.

Medical record review quotas are set per facility by dividing the total number of records to be reviewed in intervention and comparison areas by the number of data entry modules to be completed at each level of care, and then among all sampled facilities at each level.

Weighting

The data are not weighted.

Imputed Variables and/or Constructed Variables – What was Imputed/Constructed and How

There are no imputed variables in the data.

Known Data Quality Issues

Sampling errors & Design Effects for Key Indicators

N/A

Public Use Dataset Notes

This is a public use dataset. The data have been de-identified. Variables determined to contain identifiable private information, or potentially identifiable private information, for health facilities, health workers, and/or other individuals have been removed in accordance with IHME's microdata release protocol. The protocol's determination for variables that constitute identifiable private information is based primarily on [HIPAA'S De-identification Standard](#).

No personally identifiable information was collected for this study; however, these data were stripped of comments and information on who conducted the interview. Some variables in the dataset do not contain data, such as date of birth, because this information was not stored on the survey or sent to IHME. The date of birth was entered into the survey and an internal calculation was done to provide age. The surveys have also been stripped of the facility name, and in particular cases, facility location. Throughout the study, health facilities are guaranteed anonymity and the exact facility name cannot be released. Additional challenges with facilities include changes in facility type or classification over time.

Additional Information

Terms and Conditions

<http://www.healthdata.org/about/terms-and-conditions>

Contact Information

To request further information about the Salud Mesoamérica Initiative (SMI), please contact IHME:

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These files may be updated periodically, so we appreciate hearing feedback or additional information about how these data are being used.