

Flow Chart for Data Collection Instruments

1) Los Angeles County MUH Operator Survey

(Note - requires 3 data collection tools: telephone screening interview for recruitment ; Phase 1 and Phase 2 MUH Operator Survey_administered in person by Los Angeles County – based Field Data Collectors hired and trained by Study Team.)

LA MUH Operator Survey Tool

Review Roswell Park Institute MUH Operator Survey, BRFSS, NHANES, CA Health Information Survey and other published research on implementation of smoke-free policies for additional survey questions; review Healthy Homes Inspector Manual and other published research for visual assessment tools; identify and define variables.

Draft 2 LA MUH Operator Surveys (Phase 1 =pre-implementation; Phase 2 = post-implementation), screening interview, and data collection protocols.

Pilot test.

Finalize the Phase 1 & 2 LA MUH Operator Surveys, screening interview, and data collection protocols.

Develop training materials and train Field Data Collectors.

Collect Data Using the LA MUH Operator Survey Tools

Recruit and collect data from 260 respondents (Administer screening interview before Phase 1 & 2; administer Phase 1 Survey instrument at first visit; administer Phase 2 Survey 6-9 months later.)

Enter data.

Clean data.

Create weights.

Finalize dataset for analysis.

Analysis of LA MUH Operator Survey Data

Compare Phase 1 & 2 MUH Operator Survey data results to characterize MUH operators' plans for policy implementation and describe their assessment of costs, challenges and strategies pre- and post-implementation of the policy.

Correlate visual observations with survey data collected at Phase 1 & 2

Compare LA MUH Operator Survey Phase 1 & 2 results to LA MUH Resident Survey Phase 1 & 2 results.

Identify intervening factors that may affect policy implementation.

Characterize the impact of voluntary and regulatory smoke-free MUH policies on operations and management of MUH, including costs of implementation.

Characterize the impact of voluntary and regulatory smoke-free MUH policies on MUH residents' exposure to secondhand smoke (SHS).

2) LA MUH Resident Survey

(Note: - requires 3 data collection tools: in-person screening interview for recruitment; Phase 1 and Phase 2 MUH Resident Surveys administered in the residents' homes by Los Angeles County – based bilingual Field Data Collectors hired and trained by Study Team.)

LA MUH Resident Survey Tool

Review Roswell Park Institute MUH Resident Survey Review Roswell Park Institute MUH Operator Survey, BRFSS, NHANES, CA Health Information Survey and other published research for additional survey questions; review Healthy Homes Inspector Manual and other published research for visual assessment tools; identify and define variables.

Draft 2 LA MUH Resident Surveys (Phase 1 =pre-implementation; Phase 2 = post-implementation), screening interview, and data collection protocols.

Pilot test.

Finalize the Phase 1 & 2 LA MUH Resident Surveys, screening interview, and data collection protocols.
Translate Survey into Spanish.

Develop training materials and train Field Data Collectors.

Collect Data Using the LA MUH Resident Survey Tool

Recruit via screening interview, obtain consent, and collect data from 1000 adult non-smoking respondents (Administer screening interview and Phase 1 Survey instrument at first visit; administer Phase 2 Survey 6-9 months later.)

Enter data.

Clean data.

Create weights.

Finalize dataset for analysis.

Analysis of LA MUH Resident Survey Data

Compare Phase 1 and 2 LA MUH Resident Survey data to characterize MUH residents' smoking and health status including lost work and school days related to specific health conditions; describe their attitudes, knowledge, and behavior regarding exposure to secondhand smoke (SHS) and compliance with smoke-free MUH policies.

Correlate visual observations with survey data collected at Phase 1 & 2.

Compare LA MUH Resident Survey Phase 1 & 2 results to other available health impact, health care utilization, & health care cost data.

Identify intervening factors that may affect policy implementation, exposure to SHS, and health status.

Characterize the impact of voluntary and regulatory smoke-free MUH policies on MUH residents' exposure to SHS.

3) LA MUH Resident Saliva Cotinine Samples

LA Cotinine Sampling Protocol

Review and adapt NHANES protocol previously used for saliva cotinine samples for Los Angeles County.

Note that this protocol will not be piloted since it has recently been piloted and used for NHANES data collection in LA County.

Contract for laboratory data analysis and assure chain of custody for samples. Assure appropriate storage conditions for samples.

Develop training materials and train Field Data Collectors.

Collect Saliva Cotinine Samples

Obtain permission and collect samples from a maximum of 1500 respondents (1,000 adults and up to 500 children under age 18). Samples to be collected at the same time as Phase 1 LA MUH Resident Survey; samples collected again at the time of Phase 2 LA MUH Resident Survey.

Laboratory analyzes samples.

Enter data.

Clean data.

Apply weighting factors.

Finalize dataset for analysis.

Analysis of LA MUH Resident Saliva Cotinine Data

Characterize MUH Residents exposure to secondhand smoke (SHS) at Phase 1 & 2 as measured by saliva cotinine levels.

Identify intervening factors that may affect exposure to SHS using Phase 1 & 2 LA MUH Resident Survey data and visual observations.

Incorporate this analysis in the study reports that characterize the impact of voluntary and regulatory smoke-free MUH policies on MUH residents' exposure to secondhand smoke (SHS).

4) LA MUH Resident Apartment Indoor Air Quality (IAQ) Monitoring

LA IAQ Protocol

Review and adapt IAQ protocol previously developed by Dr. Neil Klepseis for Los Angeles County. This includes installing monitoring equipment in the main living area and instructing residents on the use of a Household Diary to record tobacco smoke odor, time spent at home, cooking and cleaning activities, and other particle-generating activities.

Note that this protocol will not be piloted since it has recently been piloted and used for data collection in LA County.

Contract for data analysis and assure chain of custody for samples. Assure appropriate storage conditions for samples.

Develop training materials and train Field Data Collectors.

Collect IAQ Data

Randomly select a maximum of 200 apartments from the households enrolled for the LA MUH Resident Survey Phase 1. Collect IAQ data at Phase 1 for 7 days. Collect IAQ 7-day data at the same units during Phase 2 LA MUH Resident Survey data collection.

Enter Phase 1 & 2 IAQ monitoring and Household Diary data.

Clean data.

Create weights.

Finalize dataset for analysis.

Analysis of LA MUH Resident Saliva Cotinine Data

Characterize MUH residents' exposure to secondhand smoke (SHS) as measured by Phase 1 & 2 IAQ monitoring data and Household Diary data.

Identify intervening factors that may affect exposure to SHS using Phase 1 & 2 LA MUH Household IAQ diaries, measures of ambient air quality, Phase 1 & 2 LA MUH Resident Surveys, and visual observations.

Include this analysis in the study reports that characterize the impact of voluntary and regulatory smoke-free MUH policies on MUH residents' exposure to secondhand smoke (SHS).

5) Minnesota, Maine, and Florida MUH Operator Survey (Administered by Project Team staff)

**MN, ME, & FL MUH
Operator Survey Tool**

Develop the LA MUH
Operator Survey Phase 2
tool as per 1) above.

Pilot test the LA MUH
Operator Survey Phase 2
as per 1) above.

Finalize the LA MUH
Operator Survey Phase 2
as per 1) above.

Make minor
modifications as needed
to reflect issues as
appropriate to MN, ME,
& FL.

Train staff to administer.

**Collect MN, ME, & FL MUH
Operator Data Using the
Modified Phase 2 LA MUH
Operator Survey Tool**

Recruit, obtain consent, and
collect data from 12
respondents (4 each in MN,
ME, and FL, collected once).

Enter data.

Clean data.

Finalize dataset for analysis.

**Analysis of MN, ME, & FL MUH
Operator Survey Data**

Characterize MN, ME, & FL MUH
operators' experience post-
policy implementation; describe
their assessment of costs,
challenges and strategies for pre-
and post-implementation of the
policy.

Correlate visual observations
with survey data collected.

Compare MN, ME, & FL MUH
Operator Survey results to MN,
ME, & FL MUH Resident Focus
Group responses.

Identify intervening factors that
may affect policy implementation

Characterize the impact of
voluntary and regulatory smoke-
free MUH policies on operations
and management of MUH,
including costs of
implementation.

Characterize the impact of
voluntary and regulatory smoke-
free MUH policies on MUH
residents' exposure to
secondhand smoke (SHS).

6) **Minnesota, Maine, and Florida MUH Resident Focus Groups** (Note - this requires 4 instruments: telephone screening interview to assign residents to focus groups; short written demographic and attitudinal questionnaire for focus group participants, and 2 focus group question guides (one on residents' involvement in policy development and implementation; one on policy compliance) . All instruments administered by Project Team Staff.)

