Mexico City-Harvard Alliance for Air Quality and Public Health

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Outline

1. Air Quality Surveillance
   Synthesis and tracking of air pollution trends since 1990

2. Risk Assessment
   Estimating change in health events based on observed
   change in air quality and exposure response function

3. Health Surveillance
   Measuring changes in population health indicators &
   comparing to expected

4. Economic Valuation
   Assigning economic value to observed/estimated
   health changes
Air Quality Surveillance

- Compile air pollution measurement as of 1990 by delegacion
- Explore spatial and temporal trends
- Establish air quality data repository

Players:
- SEDEMA, Molina Center, Harvard School of Public Health

Products:
- Dec 2015 – report of historical data (1990-2014)
- 2016 – Annual update
Risk Assessment

- Synthesize exposure-response functions of health indicators versus air pollution relevant to Mexican experience
- Apply exposure-response to change in air quality and Mexico City population by delegation

Players:
- Harvard Center for Risk Analysis, John Evans
- INSP, Horacio Riojas
- Molina Center for Energy and the Environment

Products
- Dec 2016 – Report (Follow Molina 2002 report)
Health Surveillance

- Compile historical data on mortality, hospital use, and other indicators (pre 2000)
- Maintain records going forward
- Assess changes in number of events compared to expected events without air pollution (demographics, economics, etc.) by delegation.
- Build data repository. Explore other sources of data.

Players:
- IMSS, Harvard Center for Risk Analysis, INSP, Molina Center

Products:
- Annual reports
Economic Valuation

- Estimate direct costs of avoided health events
- Develop economic valuation measures for Mexico population (culture)
- Apply to estimates of avoided health events by year and delegacion
- Extrapolate IMSS data to whole population
- Follow 2002 Molina report

Players:
- Harvard Center for Risk Analysis, IMSS, Molina Center, INSP