CSTE
Council of State and Territorial Epidemiologists

Geospatial Analysis and Other Epidemiological Tools and Resources for Assessing and Improving Community Health and Health Equity

2018 CSTE Annual Conference Community Health Assessment Workshop
June 10, 2018 in West Palm Beach, Florida

Agenda

8:30 am **Introduction**
Vickie Boothe, CDC

- Agenda & learning objectives
- Logistics & ground rules

Brief Overview: Seven Common Steps of the (CHI) Process, Role of Epidemiologists, and Drivers for the CHI Process
Vickie Boothe, CDC

- ACA/IRS requirements for tax-exempt hospitals
- Voluntary PH accreditation & reaccreditation requirements
- New requirement: annual reporting on 5-10 health & determinant indicators from CHA/CHIPs – positioning your agency for success

Identify and Address Health Disparities
Vickie Boothe, CDC

- Two approaches
- Introduction to area-bases socioeconomic status (SES) measures
- Introduction to the economic hardship index (EHI)
- Q&A

9:15 am **Introduction to Life Expectancy**
Amy Laurent, Public Health – Seattle & King County

- Definition, PH applications, introduction to CSTE's Sub-County Assessment of Life Expectancy (SCALE) Project
    - Overview of US life expectancy (LE) trends
    - UK applications

9:30 am **Lessons from the Field**

Adaptation of SCALE Methods and Process: Maine's SCALE Experience
Jessica Bonthius, Maine Center for Disease Control & Prevention

- Challenges & solutions
- Potential applications & next steps
- Q&A

10:00 am **Morning Break**

10:15 am **Lessons from the Field (cont'd)**

Best Practices, Challenges, & Solutions for Utilizing LE: Florida
Melissa Jordan, Florida Department of Health

- FL's approach
- Local health department reactions/applications
- FL's use of EHI
- Calculation of EHI

Case Study: Comparing EHI and Area-Based Poverty in King County
Vickie Boothe, CDC

- Simple regression & correlations with life expectancy
- Removing outliers
- Removing contrary variables from EHI

11:00 am ***Table Top Exercise 1***

- Each table has sub-county data from 1 county in 1 of 4 States (FL, NYS, WA, ME): LE, EHI, area-based SES
- Task is to:
    - Examine associations of LE & EHI, individual indicators (simple regressions, Pearson correlation) [Divide the 7 indicators among the group; each person generates a scatter plot and calculates the correlation coefficient for 1 or 2.
    - Participants use results, data, (& LE Map) to agree on sub-county geographic area(s) for targeting interventions and monitoring outcomes
    - Select 1 (social determinant indicator) for action/intervention and annual PHAB reporting

12:00 pm **Break for Lunch**

1:15 pm **Additional Challenges & Solutions: Massachusetts & New York State**
Bob Knorr, Massachusetts Department of Public Health
Tom Talbot, Albany School of Public Health

- Brief mention of the NCHS LE estimates and HUD-geocoded data
- Denominator issues & MA plan to address
- Geocoding
    - USALEEP Project – geocoding the nations' death certificates
    - Geocoding New York State deaths
    - Assessing the accuracy & completeness
- Color, cut points, uncertainty in mapping health indicators
- Geographic aggregation

2:00 pm **Introduction to Selecting, Implementing, Monitoring & Evaluating Interventions**
Vickie Boothe, CDC

- Brief overview of resources for selecting cost-effective and impactful community-level interventions
- Selection criteria & process: challenges & helpful resources
- Identifying the evidence-based, highest Impact, most cost-effective interventions
    - HI-5
    - Guide for Community Preventive Services
    - County Health Rankings What Works for Health

2:15 pm ***Table Top Exercise 2: Assessment of Trend Data***

- Each table will be provided 2012-2016 updates of the data used in Table Top Exercise 1
- Participants will have 10 minutes to examine the change in the indicator within the targeted geographic area(s) selected for action and reporting

Table Top Exercise 2: Report Outs

- Which geographic areas(s) and SDOH indicator was chosen?
- What, if any, change occurred?
- Were there any big improvements in other SDOH indicators within the identified areas?
- Were there any big indicator improvements in other areas of the county?
- In retrospect, would they have made different decisions on areas or selected SDOH indicator, given the observed change in all indicators within their county census tracts

3:00 pm **Afternoon Break**

3:15 pm **Monitor, Evaluate, and Calculate the Impact of Interventions: Lessons from the Field**
Amy Laurent, Public Health – Seattle & King County

- Overview of PHSKC's approach to monitoring community health
- Discussion of approaches that other LHJs could use
- Evaluation of Policy, Systems, and Environment change
- Monitoring and evaluation of changes in life expectancy (emerging work)

4:30 pm **Wrap-up**

5:00 pm **Adjourn**