



Statewide Estimates of Medical Expenditures for Diabetes Care

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Introduction

- Diabetes facts and figures: Understanding the burden of Diabetes
- Use of multiple data sources to produce synthetic estimates
- Maps: transforming data into usable information

Data Sources: MEPS

- Medical Expenditure Panel Survey (MEPS)
- Public data set available on the web
- Cost data organized by condition type, service type, payer type and consolidated year
- By condition code to summarize by service files

Data Sources: MEPS (continued)

- Validation process using AHRQ published tables
- File breakdown by region
- Use of gender, age, race/ethnicity
- Preparation of mean and or median cost per patient

Data Sources: BRFSS

- Behavioral Risk Surveillance System Survey (BRFSS)
- Question: “Have you ever been told by a doctor that you have diabetes?”
- Produce state level prevalence estimates by demographic subgroup

Data Sources: Census

- US Census 2000 for zip code population totals
- Used to estimate gender, age and race/ethnicity breakdowns for each zip code

Synthetic Estimation Summary

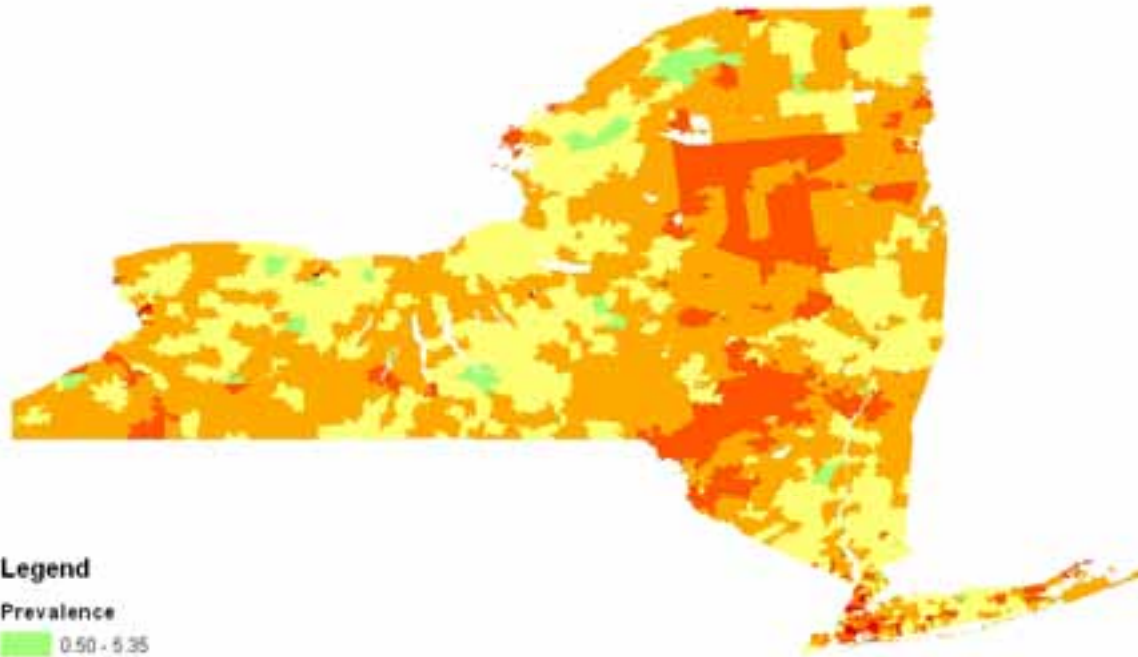
- BRFSS: State-Level Diabetes Prevalence by Subgroup
- Census: ZIP Code Estimates by Subgroup
- Calculate Estimated Number of Diabetics by ZIP Code
- Aggregate Estimates of Diabetes Prevalence by Subgroup and Zip Code
- MEPS: Median cost per patient

Mapping

- ArcMap 9.2 used to produce choropleth maps
 - ◆ Map of diabetes prevalence (2005)
 - ◆ Map of total expenditures for diabetes (2005)
- Natural Breaks (Jenks) used to divide into 5 levels
 - Darker color indicates more diabetes/high cost



Diabetes Prevalence by Zip Code in New York State, 2005



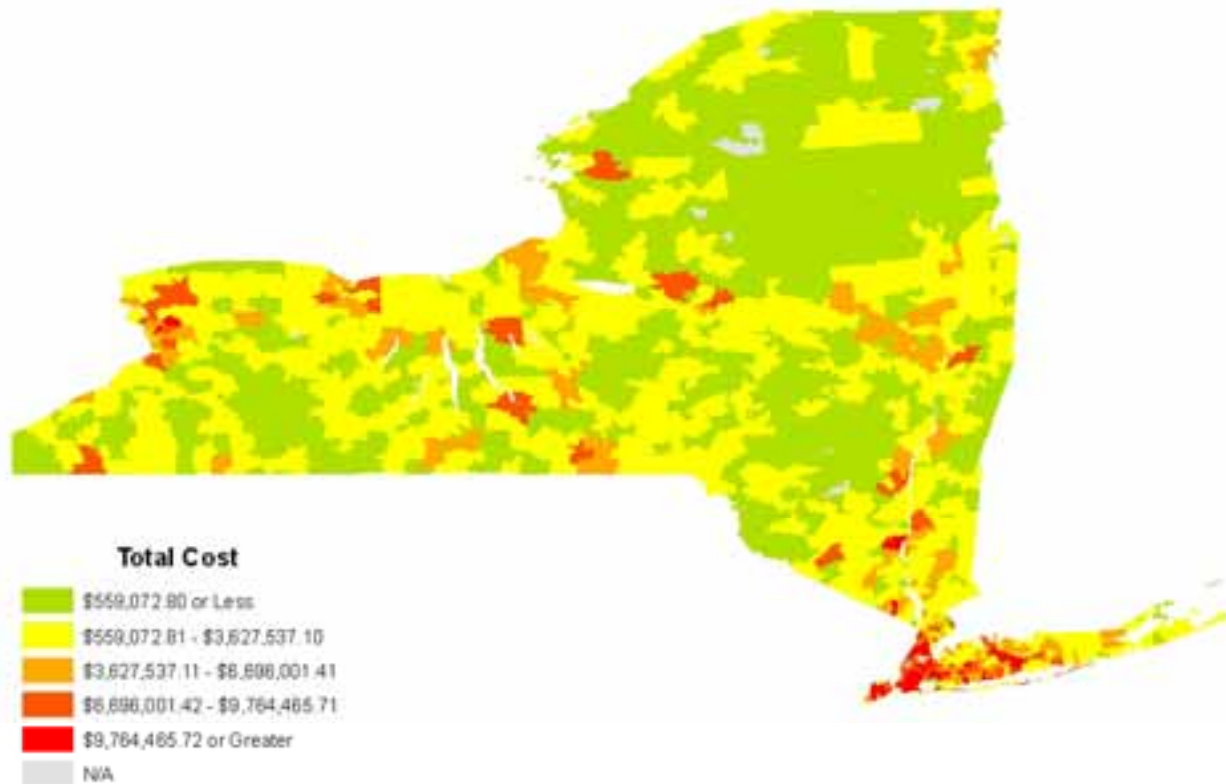
Legend

Prevalence

- 0.50 - 5.35
- 5.36 - 7.06
- 7.0740 - 8.25
- 8.26 - 10.59
- 10.60+



Total Cost of Diabetes Expenditures by ZIP Code in New York State (2005)



Conclusion

- Understanding the burden of Diabetes
- Multiple data sources
- Maps for comparing multiple factors

Resources

- National Minority Quality Forum Website:
NMQF.org

Follow the instructions for Atlas registration and access.

Resources (continued)

- BRFSS: <http://www.cdc.gov/BRFSS/index.htm>
- AHRQ MEPS:
<http://www.meps.ahrq.gov/mepsweb/>
- Speaker contact:
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