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The National Longitudinal Survey of Public Health Systems: Selected Findings and Applications

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The National Longitudinal Survey of Public Health Systems: Selected Findings and Applications

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Acknowledgements

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- Collaborators include Rick Ingram, PhD, Rachel Hogg, MA, Cezar Mamaril, PhD, Andrew Parks, MBA

Data: public health production

- Cohort of 360 communities with at least 100,000 residents
- Followed over time: 1998, 2006, 2012
- Measured from local public health official's perspective:
 - Scope: availability of 20 recommended public health activities
 - Network: types of organizations contributing to each activity
 - *Effort*: contributed by designated local public health agency
 - *Quality*: perceived effectiveness of each activity

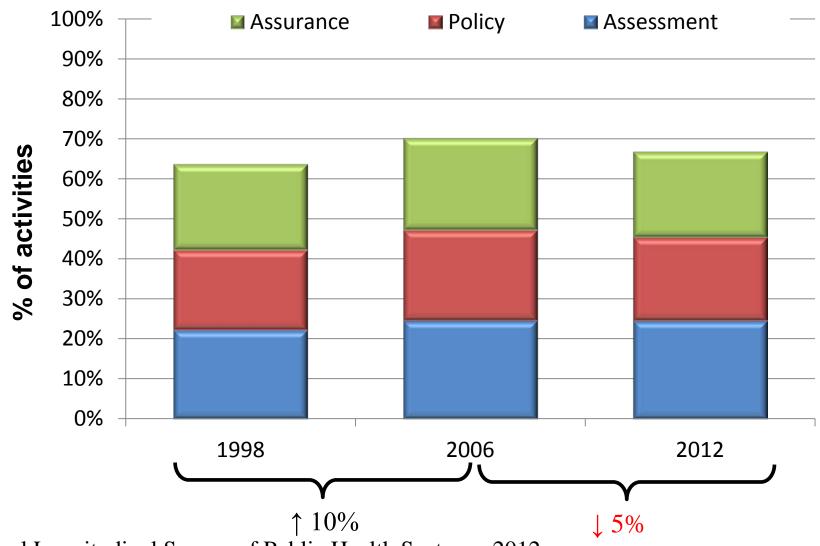
Constructs reflected in the measures

- Changes in scope and scale of services delivered
- Intensive margin: effort exerted by governmental public health
- Extensive margin: other organizations contributing to public health
- Quality/effectiveness: degree to which services meet community needs

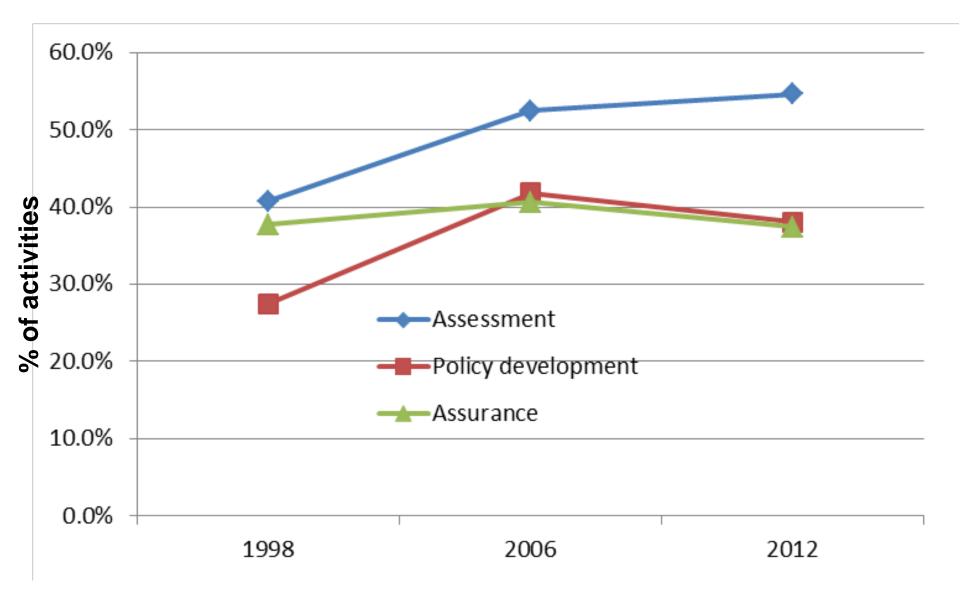
Links to other data sources

- Area Resource File: community and market characteristics, health resources
- NACCHO Profile data: local public health agency characteristics
- ASTHO Profile data: state public health agency characteristics
- **U.S. Census of Governments**: other state & local spending
- Consolidated Federal Funds Report: Other federal spending
- Medicare Cost Report data files: hospital ownership, market share, uncompensated care

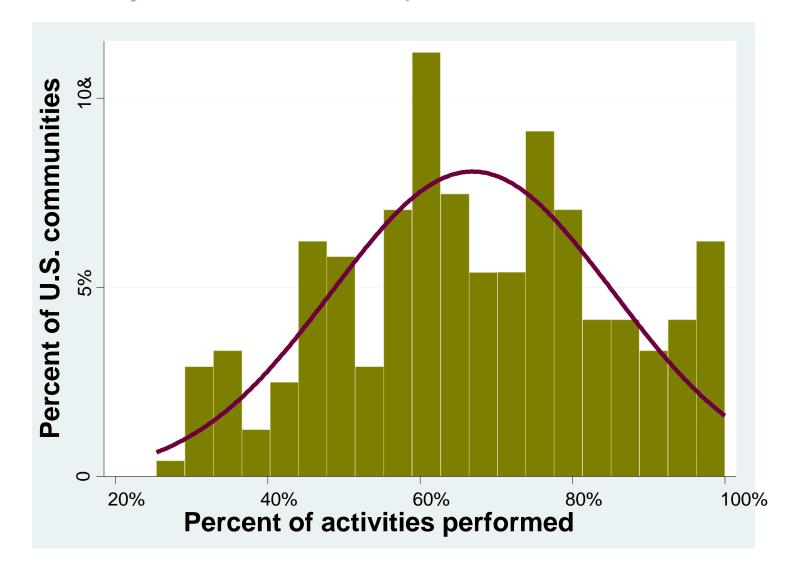
Delivery of recommended public health activities



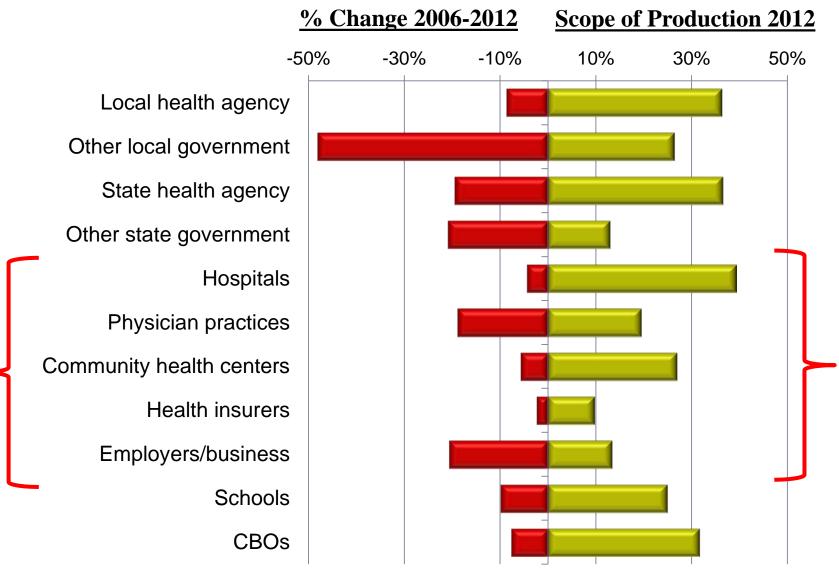
Delivery of recommended public health activities



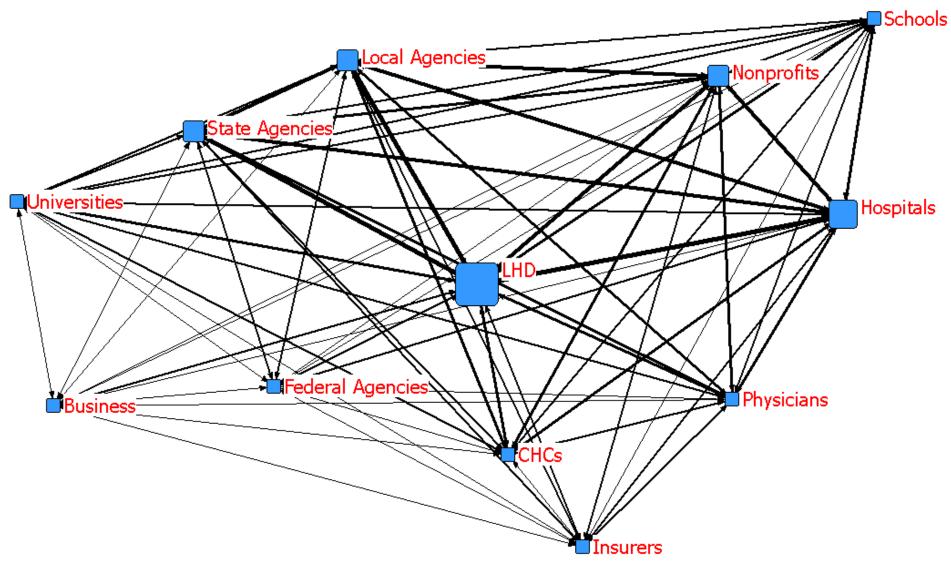
Variation in Scope of Public Health Delivery Delivery of recommended public health activities, 2012



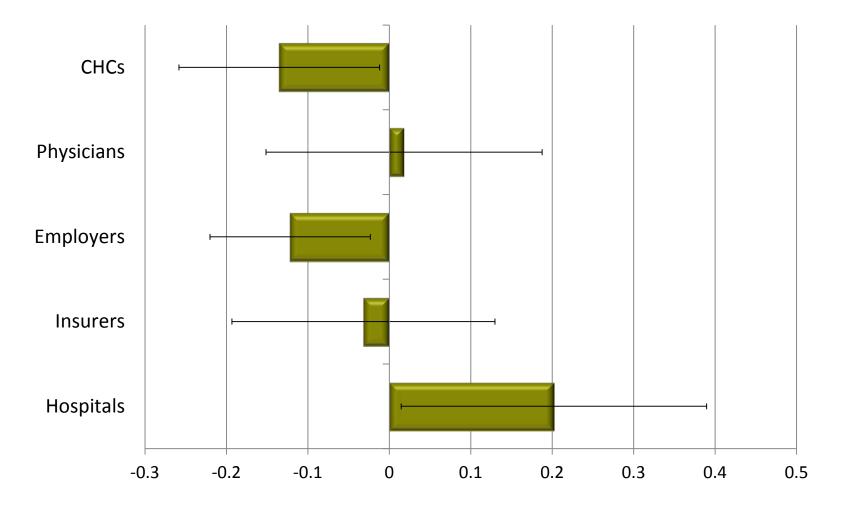
Organizations contributing to local public health production



Inter-organizational relationships in public health delivery systems



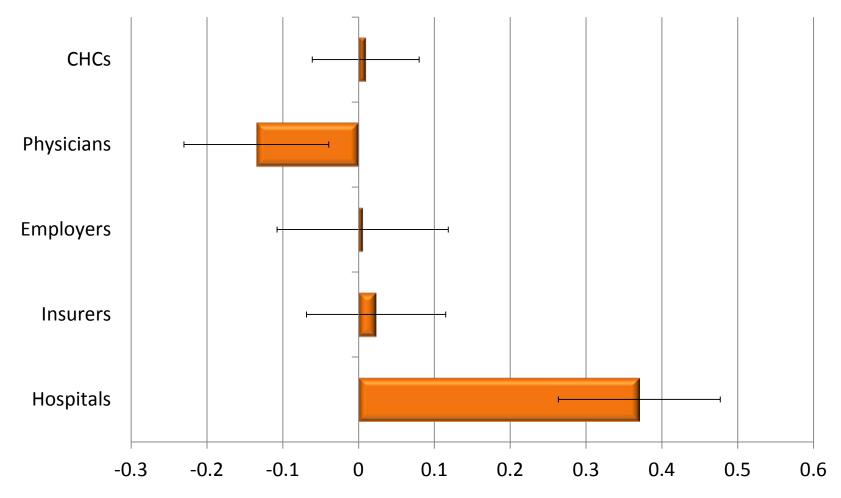
Do other organizations complement or substitute for local public health agency effort? Results from Multivariate GLLAMM Models



Note: GLLAMM estimates, holding all other variables constant in the model

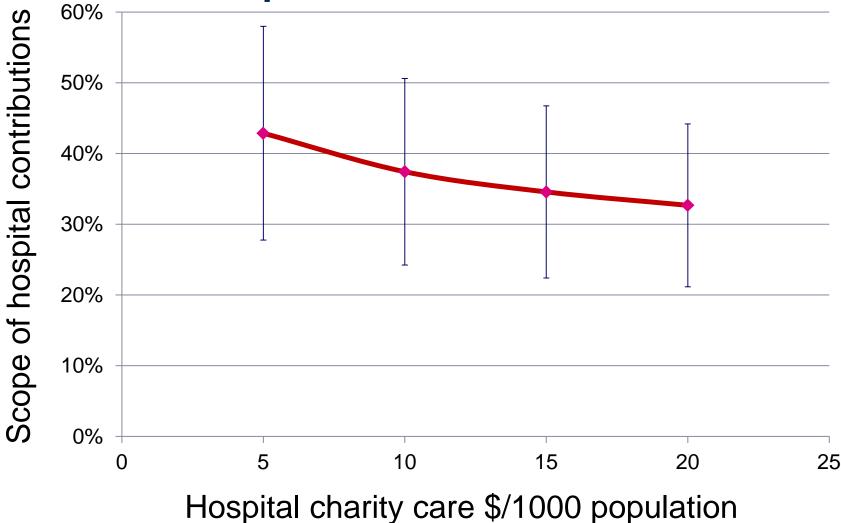
How do other organizations affect the total supply of public health activities?

Results from Multivariate GLLAMM Models



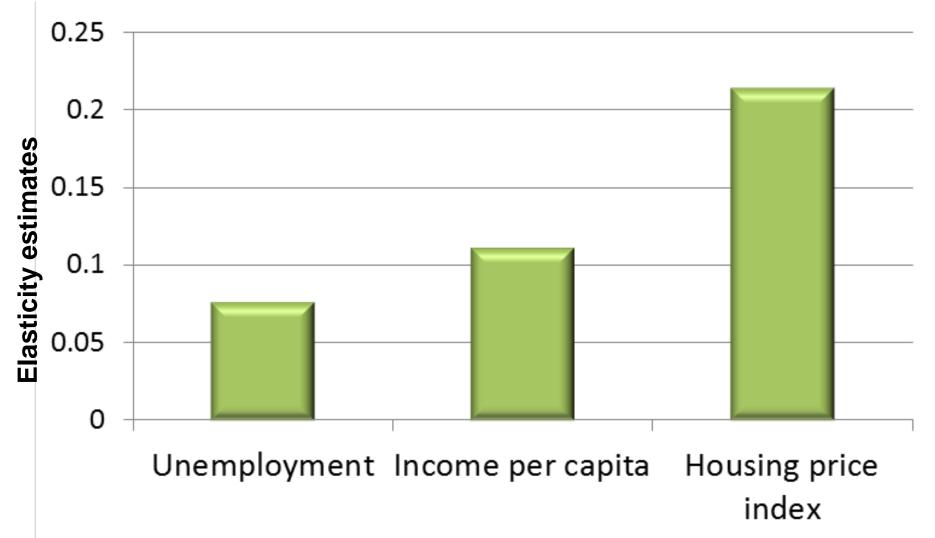
Note: GLLAMM estimates, holding all other variables constant in the model

Estimated crowd-out in hospital contributions to public health activities



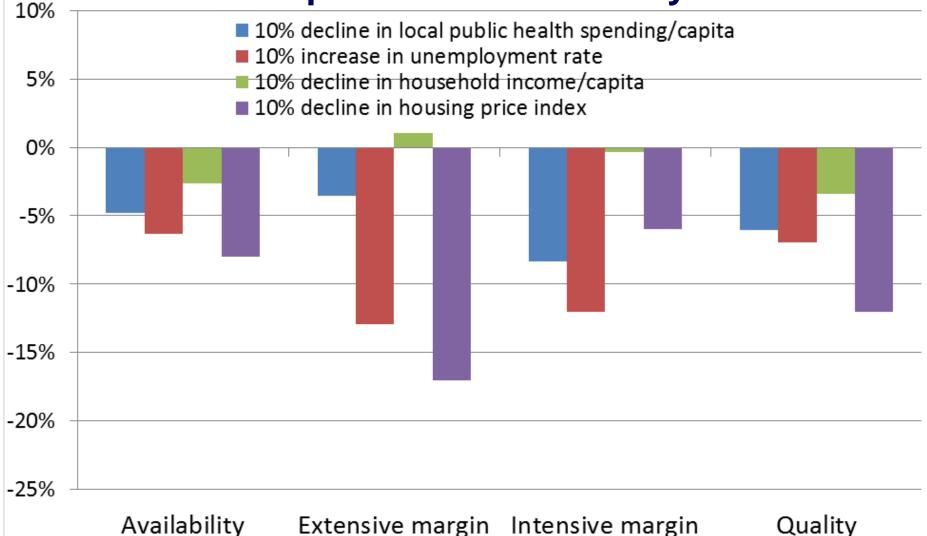
Note: GLLAMM estimates, holding all other variables constant in the model

Effects of economic indicators on public health spending



GEE regression estimates with logarithmic link function, controlling for population size, age composition, racial composition, physician and hospital supply, and governance structure

Effects of economic indicators on public health delivery



GEE regression estimates with logarithmic link function, controlling for population size, age composition, racial composition, physician and hospital supply, and governance structure





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