Use of Health Impact Assessment in the United States: 27 Case Studies, 1999-2007

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Health Impact Assessment (HIA)

A combination of procedures, methods, and tools by which a policy, program, or project may be judged as to its potential effects on the health of a population, and the distribution of those effects within the population (Gothenburg consensus statement, 1999)

Goal of HIA

To focus the attention of decision-makers on the health consequences of the projects and policies they are considering. An HIA should lead to a better informed decision with respect to health.





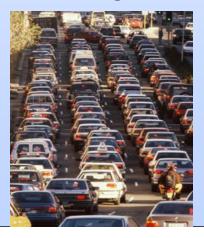
Steps in Conducting a Health Impact Assessment

- Screening
- Scoping
- Risk assessment
- Reporting
- Evaluation



Shades of HIA

- Scope
 - Rapid, intermediate, or comprehensive
 - Type of assessment
- Projects vs. policies
 - Difficulty, population affected, scope of health outcomes affected
- Voluntary vs. regulatory





Relationship to Environmental Impact Assessments

- EIA required in 1969 by the National Environmental Policy Act (NEPA)
 - The purpose of NEPA is to protect the "human environment" and "stimulate the health and welfare of man" (NEPA, 1979, sec. 2)
- Health in EIA
 - Develop health-related sections as a "Cooperating Agency"
 - Participating in public review of an EIA during scoping and review of draft EIAs
 - Providing technical support to other agencies and stakeholder groups

HIA efforts outside the U.S.

- Extensive work for several decades
- Usually focused on local projects
- Often linked to EIA or focused on facilitating community participation
- Increasing interest in U.S.



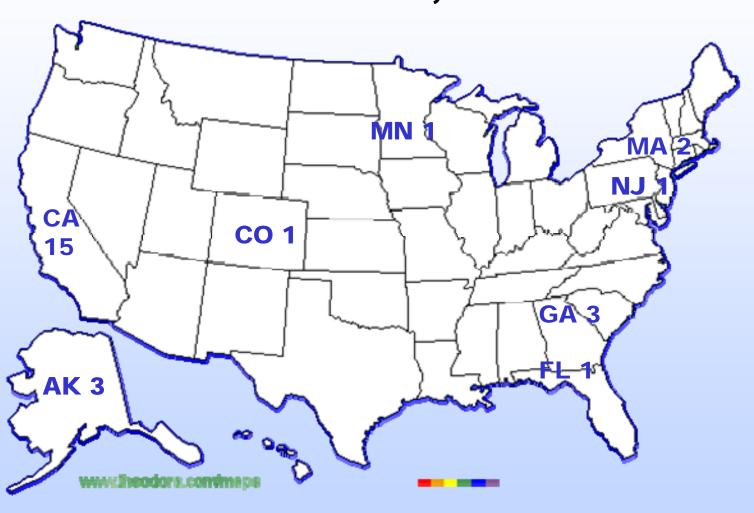




Methods for Identifying Completed HIAs in the U.S.

- Networking among small group of HIA investigators who have been involved in most HIAs done in United States
- Requested completed HIAs on HIA-USA listserve; updated September 2007
- Literature search on Medline, Google Scholar, and other databases
- List of HIAs identified may be incomplete

Location of 27 Completed HIAs in United States, 1999-2007



HIAs of Projects (N=13)

- 1. Housing redevelopment: Trinity Plaza CA
- 2. Housing redevelopment: Rincon Hill CA
- 3. Mixed-use redevelopment: Executive Park CA
- 4. Senior housing: Jack London Gateway CA
- 5. Transit Village: MacArthur BART station CA
- 6. Transit-related greenway: Alameda County CA
- 7. Urban redevelopment: Oak to Ninth CA
- 8. Urban redevelopment: Commerce City CO
- 9. Corridor redevelopment: Buford Highway GA
- 10. Corridor redevelopment: Lowry Avenue MN
- 11. Transit, parks and trails: Atlanta Beltline GA
- 12. Coal-fired power plant: Taylor County FL
- 13. Farmers market revitalization: Trenton NJ

HIAs of Policies (N=14)

- 1. Local planning: Eastern neighborhoods CA
- 2. Area plan and rezoning: Eastern neighborhoods CA
- 3. After-school programs: Statewide CA
- 4. Walk-to-school programs: Sacramento CA
- 5. Public housing flooring policy: San Francisco CA
- 6. Living wage ordinance: San Francisco CA
- 7. Living wage ordinance: Los Angeles CA
- 8. Community transportation plan: Decatur GA
- 9. Low income rent subsidies: Statewide MA
- 10. Low income home energy subsidies: Statewide MA
- 11. Oil and gas leasing: Outer continental shelf AK
- 12. Oil and gas leasing: Chukchi Sea AK
- 13. Oil and gas leasing: National Petroleum Reserve AK
- 14. Federal farm bill: National

Organizations that Conducted HIA

Academic group; CDC N = 12

Local health department N = 9

Private consultants N = 3

Tribal council N = 3



Decision-Making Organization for Project or Policy

City council; planning commission	N=17
State legislature	N= 3
US federal agency	N= 3
US Congress	N= 1
Non-profit organization	N= 1
Local cooperative	N= 1
State Dept. of Transportation	N= 1

Population Affected by Project or Policy in 27 HIAs in U.S.

Small area within city N = 13

City or county-wide N = 7

Statewide N = 6

National N = 1

Primary impact on:

Persons with low income N = 17

Children/adolescents N = 2

Whole population N = 6

Community Involvement

- Community input involved in 20 out of 27 HIAs
- Barriers to community involvement in HIAs include lack of time or resources, human subjects research, or federal management restrictions



Health Outcomes Examined

Quantitative

- Physical activity
- Pedestrian injuries
- Mortality
- Impact of particulate matter in air
- Crime
- Parks and greenspace

Qualitative

- Social equity
- Diet, nutrition, food safety, food insecurity
- Noise
- Mental health
- Social capital
- Housing adequacy and affordability



Funder of HIA

Robert Wood Johnson Foundation	N = 7
Health department - internal staff	N = 7
Volunteer; multiple sources	N = 5
University fellowship	N = 3
Centers for Disease Control	N = 2
Health department - external contract	N = 2
The California Endowment	N = 1



Key Results in 27 HIAs in U.S.

- Most identified improvements needed to mitigate adverse health impacts
 - Redevelopment projects that lacked affordable housing; pedestrian improvements along a dangerous highway
- A few encouraged projects or policies that would be health-promoting
 - Walk-to-school program; Beltline transit and park project
- One concluded that proposed program would fail to reach its intended target population
 - After-school programs

Impact of HIA on Subsequent Decisions in 27 HIAs in U.S.

- Documentable impacts were evident for some HIAs
 - Change in redevelopment plans to add affordable housing
 - Living wage ordinance adopted
 - Urban road corridor plans improved
 - Incorporation of health into EIA
- Most HIAs raised awareness of health issues for some audiences

Key Challenges of HIA

- Uncertainties (data, models, policy)
- Timeliness
- Relevance to stakeholders and decision makers
 - Political context
 - Importance relevant to other factors
- Capacity to conduct HIAs
 - Training and funding



Next Steps for HIA

- Methods to determine which projects and policies are most suitable for HIA
- Standardizing and streamlining impact estimation
 - UCLA clearinghouse
- Determine feasibility of different types of tools in various settings
- Training
 - RWJF funded CDC to create U.S. based HIA course and conduct trainings around the U.S.

Summary

- HIA is a new and evolving science in the U.S., however it is a promising new approach to quantify health impacts of a wide variety of policies and projects
- HIA provides only one piece of information (health) in complex decisions and stakeholders may have different priorities
- HIA provides an outlet for health to be appropriately factored into complex decisions

Additional Information

- Dannenberg, A., Bhatia, R., Cole, B., Heaton, S., Feldman, J., Rutt, C.D. (2008). Use of Health Impact Assessment in the United States: 27 Case Studies, 1999-2007. American Journal of Preventive Medicine, 34(3), 241-256.
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