

All models are wrong, but some are useful:

The case for integrating EHDI with other child health information systems

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- (1) <u>Describe</u> rationale for developing business case for integrating EHDI information system (IS) with others
- (2) <u>List</u> health, programmatic, and financial effects of integrating EHDI IS
- (3) <u>Discuss</u> business case model (BCM) assumptions and methodologies





Current PH Info System Problems

Individuals, families, and society pay the price

Preventable illness, possible life-long disability

Duplicate, incomplete immunizations, screenings, follow-up

Lack of timely, complete, and accurate health information

Info not shared: providers, PH, social services, families

Few or no linkages exist among information systems

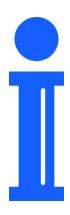


Business case

"Using credible estimates based on factual inputs and expert opinion allowing health officials to articulate the costs and benefits of information systems integration in terms of dollars, time, and other resources."

Business Case Model User Guide





Making a business case for EHDI Info System integration

- Document costs and benefits to stakeholders
- Project short- and long-term benefits
- Show added effects of integrating EHDI







Before I make my decision, I'd like to see those meaningless statistics again



What is the Business Case Model?

- Tool to quantify benefits and costs of ICHIS
- Contains pre-loaded state-specific data
- Documents projected ROI of ICHIS
- Shows results by stakeholder group:
 - Family, Employer, Insurer
 - **≻**Government
 - **≻** Society





Integration benefits reflected in BCM

- Improvement in data quality
- Providers have complete picture
- Support for health care decisions
- Increase in quality and coordination of care
- Better health outcomes





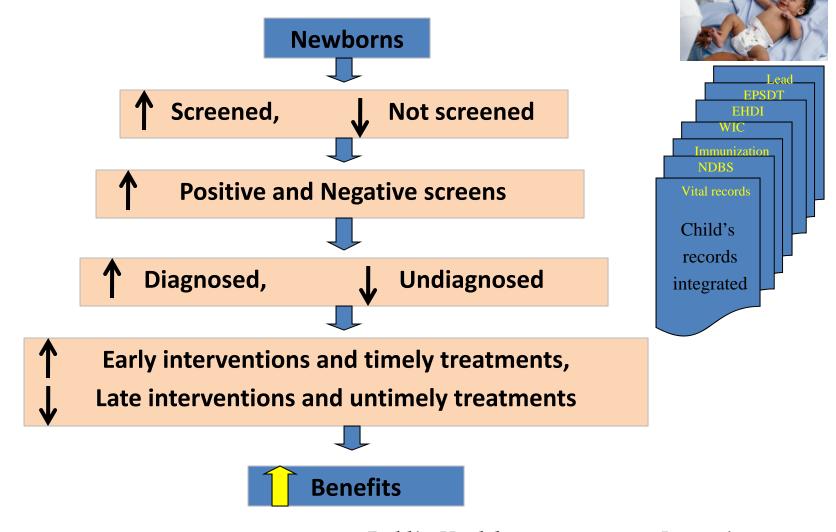
BCM assumptions

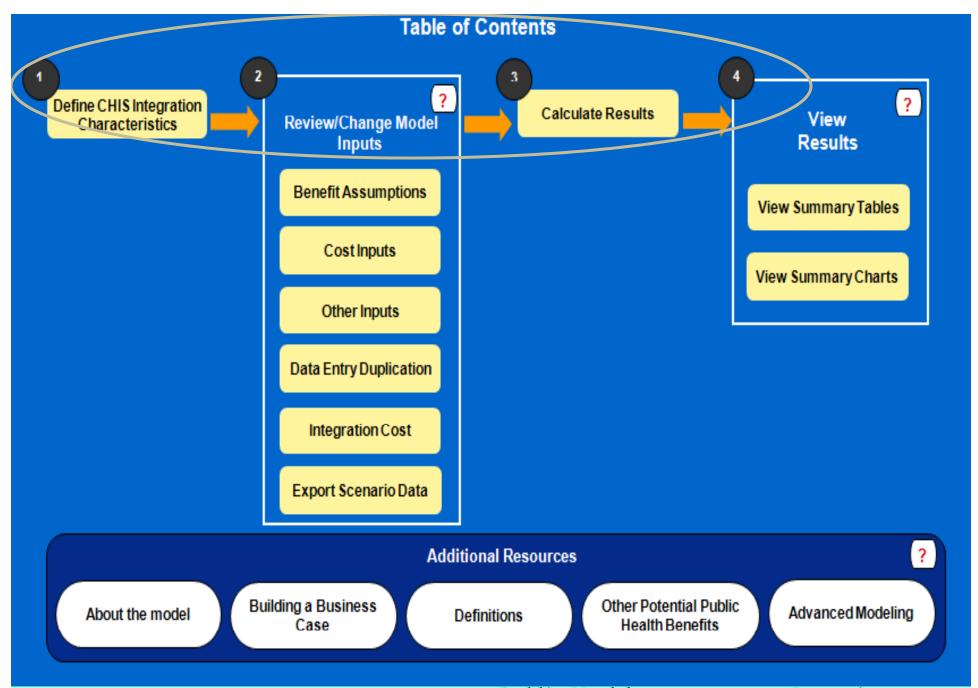
- Better tracking
- Changes in referral patterns
- Improved timeliness of services
- Better financial and health outcomes





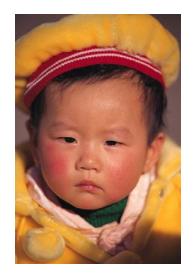
BCM assumption illustration





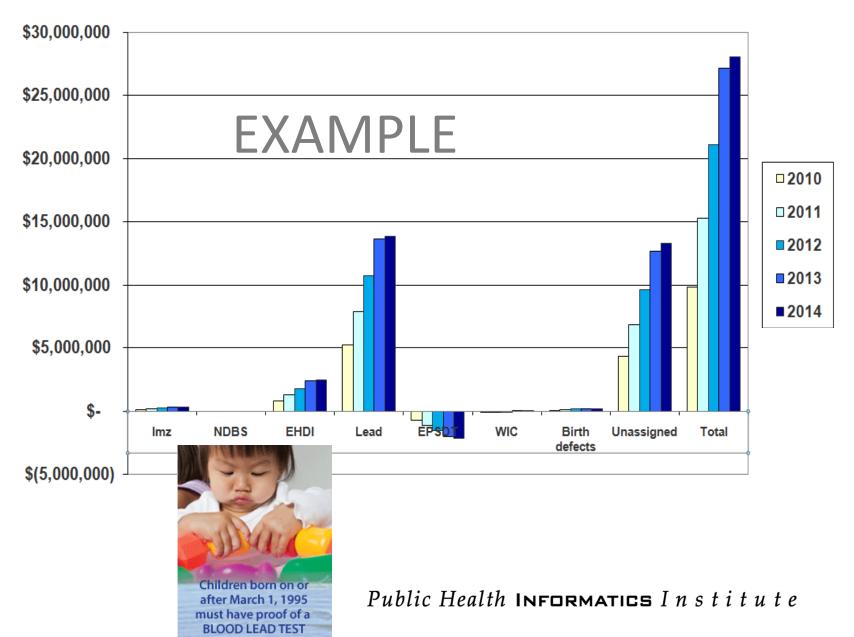
EHDI-related tables and charts in BCM

- Summary chart of ICHIS
- Increase in EHDI participation after integration
- Additional hearing loss cases detected before six months of age after integration

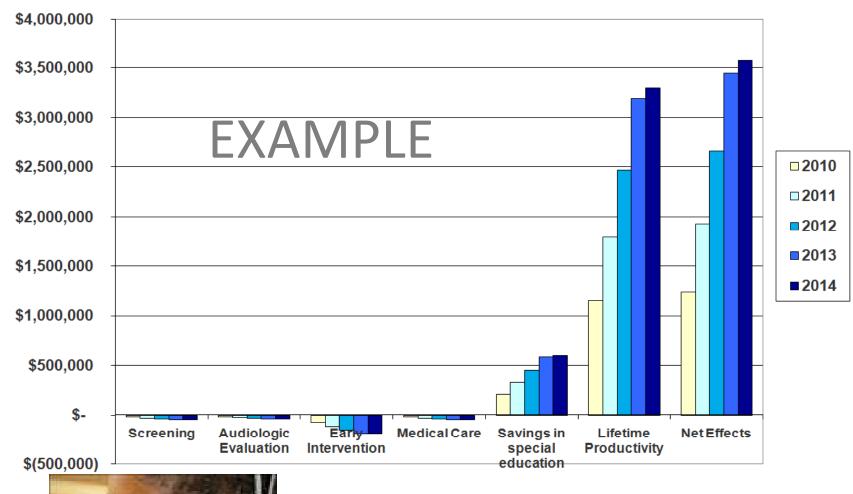




Projected annual net effects of integration by program

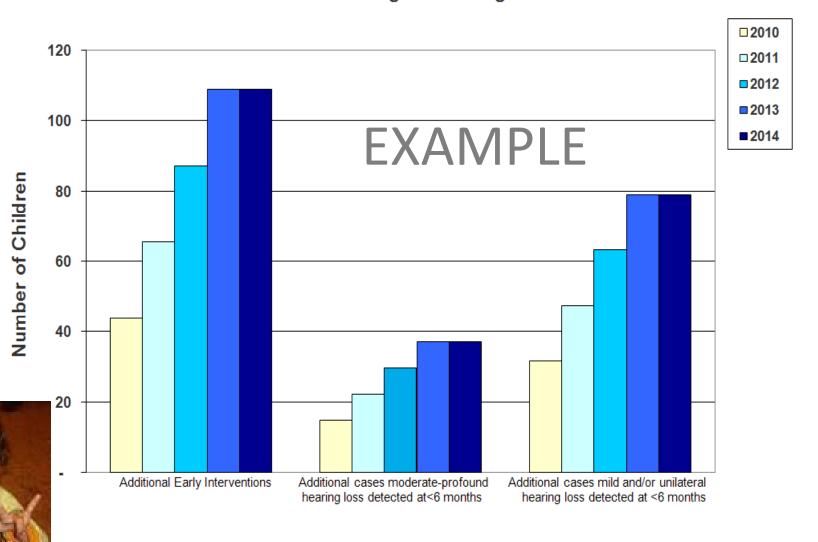


Increase in EHDI participation after integration: Effects on society





Increase in detection and early intervention for hearing loss before 6 months of age after integration





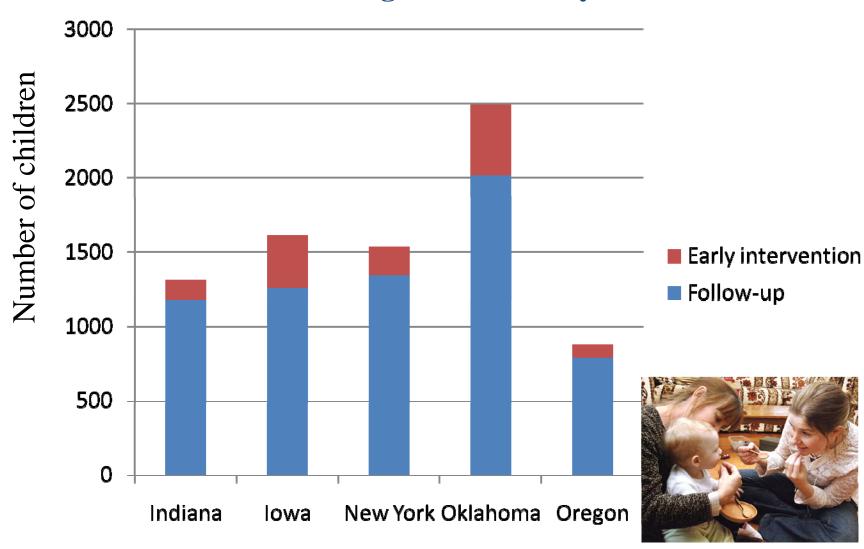


Projected increase in follow-up, El after integration over 5 years

State	Receive recommended follow-up	Enroll in early intervention by 6 months
Indiana	1,178	132
Iowa	1,253	361
New York State (excluding NY City)	1,341 (Preliminary data)	192 (Preliminary data)
Oklahoma	2,011	480
Oregon	784	92



Projected increase in follow-up, EI in 5 states after integration over 5 years

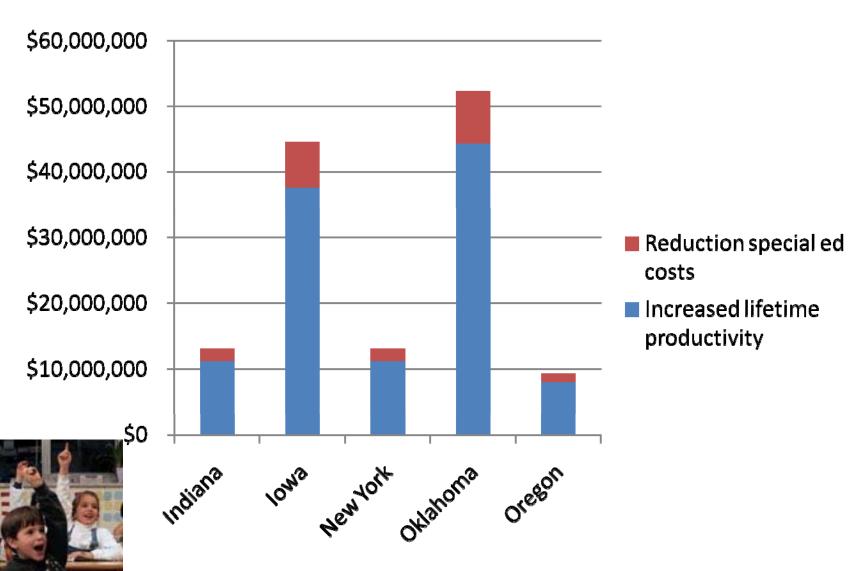




Projected reduction in special ed costs, increase in lifetime productivity for 5 states after integration over 5 yrs

State	Reduction in special education costs	Increase in lifetime productivity
Indiana	\$2,023,727	\$11,074,890
Iowa	\$6,967,454	\$37,498,389
New York State (excluding NY City)	\$2,023,727 (Preliminary data)	\$11,074,890 (Preliminary data)
Oklahoma	\$8,086,385	\$44,252,705
Oregon	\$1,433,325	\$7,843,843

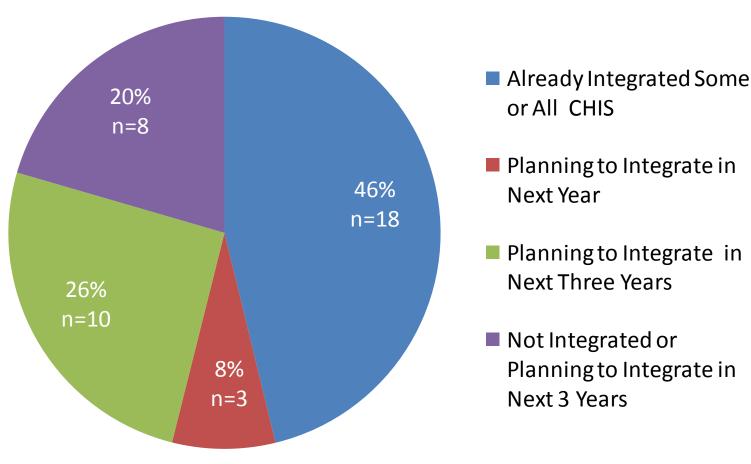
Projected reduction in special ed costs, increase in lifetime productivity for 5 states after integration over 5 yrs



Public Health Informatics Institute



Level of Reported Integration (2008)





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For more information:

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Thank you!