Academic Health Department: Partnership to Improve Delivery of Local Public Health Services

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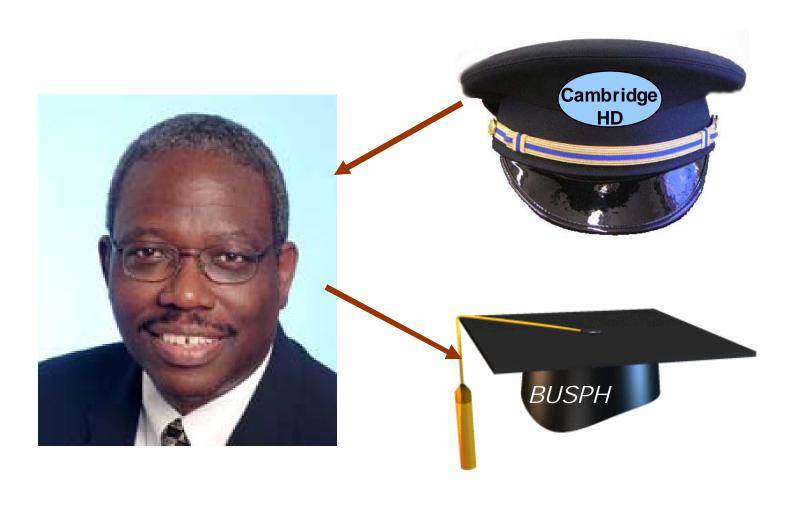
Our Challenge.....

Develop a partnership between an academic institution and practice agency to enhance the ability of both to fulfill their missions.

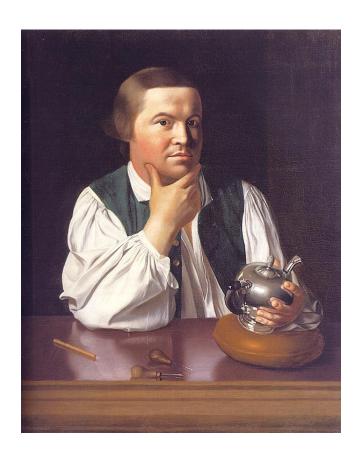
Academic Health Department

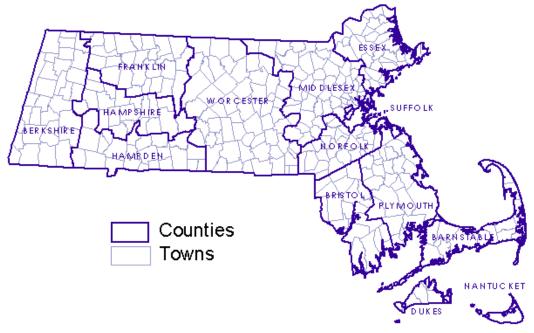
- ASPH-funded
- Builds on prior relationship between BUSPH and Cambridge Health Department/Region 4b
- Addresses public health needs of Massachusetts communities

Harold Cox: a man of many hats....



Local Public Health in Massachusetts

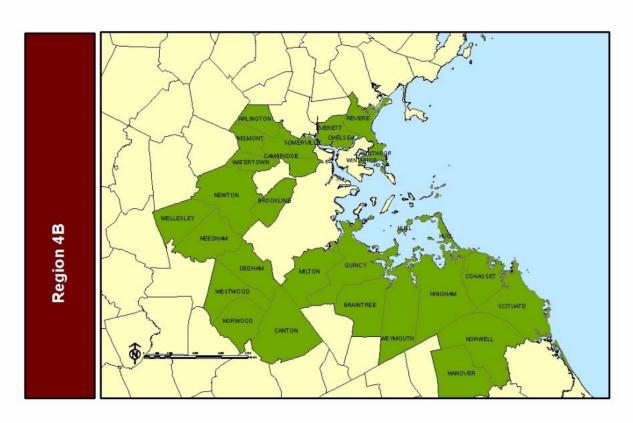




351 cities and towns

351 local health agencies

Emergency Preparedness Region 4b 27 communities surrounding Boston



(population approximately 1,000,000)

Partnership Goals:

□ Goal 1:

Establish formal affiliation between Boston
 University School of Public Health and Cambridge
 DPH (on behalf of 27 local communities in region)

□ Goal 2:

Combine resources to build public health capacity to deliver epidemiology services throughout the region;

□ Goal 3:

Evaluate AHD Partnership for quality assurance and possible expansion

Goal 1: Formal academic/practice relationship:

- Signed agreement letter / formal subcontract
- Establish Advisory Council
- Share expertise among faculty and practitioners
 - Courses (face-to-face and on-line) for practitioners & students
 - Database for consulting/speakers' bureau
 - Increased practicum/job shadowing/mentoring opportunities for students in LHDs

Goal 2: Regional Epidemiology Center

Use partnership to:

Address lack of epi expertise across region

Continue efforts to build Regional Epidemiology Center



Goal 2: Regional Epidemiology Center (continued)

- Hired three BUSPH students to work with Regional Epidemologist
- On-line survey and focus groups of local public health nurses to identify community needs
- Collected all available epi data for communities in Region; generated summary reports
- Plans for providing technical assistance during outbreaks



Massachusetts Emergency Preparedness Region 4b

Health Data Watch 2007

Sub-region 1

The Health Data Watch provides a snapshot of the health of Region 4b, focusing on basic demographic characteristics and leading health indicators. Sub-region 1 includes the communities of Cambridge, Chalses, Everet, Revere, Somerville, and Winthrop.

Demographic Highlights

- Sub-region 1 (11,787 persons/sq mi) is more densely populated than Region 4b (3,825) and Massachusetts (812).
- In sub-region 1, thirty-four percent of persons age 5 and over, speak a language other than English at home, compared to 19% in the state and 22% in Region 4b.
- The median household income is significantly lower in sub-region 1 (\$43,488) compared to Massachusetts (\$50,502) and Region 4b (\$64,344).

Key Health Indicators

- Cancer is the leading cause of death in sub-region 1.
- The rate of alcohol/substance related hospitalizations and opicid-related hospitalizations is higher in sub-region 1 as compared to the State and Region 4b.
- The rate of Chlamydia incidence is higher as compared to the State and Region 4b.
- The incidence of syphilis is almost 2.5 times higher in sub-region 1 than in Massachusetts.
- The rate of asthma-related hospitalizations is significantly less in both sub-region 1 and Region 4b as compared to the State.
- In 2006, Middlesex and Suffolk counties in Region 4b had 90% of days with an Air Quality Index rating of "Good."

Leading Health Indicators

		Hassachus etts	Region 4b	Sub-region 1
Leading	Causes of Death [®]			
	Heart Disease	170.8	145.81	161.7
	Cancer	184.2	171.41	194.4
	Stroke	37.7	33.5	38.9
Top 3 C	auses of Cancer Hortality ²			
	Lung	52.4	48.5"	61.5
	Breast (Fernie)	23.0	22.4	25.2
	Prostate	21.8	20.6	27.3
	Coloradal	17.A	19.1	17.7
торзс	auses of Cancer Incidence " Prostate	182.2	155.0	1496
	Breast (Ferrale)	130.2	136.5	116.3
	Lung	70.6	86.5	78.6
Hental F	iealth Suidde Deaths *	7.0		
	Montal Disorder Deaths -	77.5	6.0 27.0	6.1 33.1
	Mental Disorder Hospitalizations ¹	826.2	753.7	1,073.01
Pennata	il and Child Health ^t Births t	76,824	11.519	3.993
	Low Birth Weight (+0500g or Sibe Soz. % by bith neight)	76,824 B9.	11,519 7%	3, 9963 896
	Vervices Birth Weight			
	(+1500g or 38ts Sec, % by bith neight)	1%	1%	1%
	Protorm Births (40% skg	99.	890	8%
	Infant Mortality	5.1	4.5	5.3
	Teen Pregnancy (% by age)	6%	3/6"	6%
	Maternal Smoking During Pregnancy	79.	5%"	594"
hjurtes				
_	Fol Is (hospitalizations) 1	2,749.4	2,408.8	2,370.1
	Motor Vehicle Related Hospitalizations!	1,323.4	961.2	1,258.9
	Wespons Rainted (ED yets forcureholor storo instrument nound) 11	2.245	1.73	119
āsihma	Orn came residence on small unamage person			
Asınma	Asthma-Related Hospitalizations 1	1,016.1	753.4"	603.8"
Subetse	ce Abuse	1,010.1	103.4	093.8
oubstat	DPH Funded Treatment Program Admissions ***	103.070	9.548	4.190
	Alcohol/Substance Related Hospital zations	341.2	337.3	479.5
	Orioid-Related Fatal Overclases 1	991.2	BB	4/9.0
	Opioid-Related Hospitalizations 1	8.2 207.2	243.61	11.5 378.1°
		201.2	204.0. B	ard. I
UNGTWO	ght/Obesity	42.7	34.2"	201.1
	Obesity Hospitalizations 1	42.1	34.2	37.5

Note: The debatil researce is ago-edjusted rate (cases per 900,000 population)

Hintant Mortality Ratio (per 1,000 live bittis).

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[&]quot;Statutes by different from the State

Goal 3: Evaluate partnership

- assess success of various components
- monitor progress toward objectives
- involve graduate evaluation students in development of surveys and reports (as practicum and directed study)

What makes partnership work?

- Prior professional relationships among AHD participants
- Mutual ownership of and commitment to the program
- Identification of mutual benefit from collaboration
- Specific do-able project(s)
- Student involvement to enhance skills and increase efficiency in the workplace

What are barriers to collaboration?

- Clear definition & prioritization of project goals
- Differing missions & timetables of academia and practice
- Equitable compensation
- Communicating role of AHD to consumers
- Name "Academic Health Department"



Who benefits from academic/practice collaboration?

□ Agency:

- Additional resources to achieve mission
- Professional develop opportunities for staff (Adjunct faculty appointments)

□ Faculty:

 Collaborative opportunities with practitioners in research and teaching activities

□ Students:

- Experience in real world
- Exposure to practitioners in and out of classroom
- Entrée into field for post-grad opportunities

□ Public:

- Access to health information about their community
- Improved public health infrastructure

Do we want to continue?

YES!

Future efforts may include:

- Identify new funding!
- Training program for a new statewide disease tracking system (MAVEN)
- Periodic updated health assessment data reports, environmental health data reports, outbreak investigation teams