Academic Health Department
Bridging Knowledge, Improving Health
A collaboration between the University of Tennessee, Department of Public Health and Knox County Health Department

Review of Year 2
August 1, 2012 – July 31, 2013

Presented Aug 8, 2013 by:
Martha Buchanan, MD, Director, Knox County Health Department
Paul Erwin, DrPH, MD, Head, Department of Public Health
Julie Grubaugh, MPH, AHD Coordinator
Agenda

• Welcome
• Background
• Shared Accomplishments
• Future Directions
Background

• Academic Health Department concept developed in 1980s, early 1990s
• Devised as the public health equivalent of what the teaching hospital is for medical and nursing students
• Key support from the Public Health Foundation’s Council on Linkages between Academia and Practice
• Recent resurgence and renewal
• **KEY: developing the AHD on a foundation of long-standing engagement between MPH Program/Faculty and KCHD**
The University of Tennessee Department of Public Health (UT/DPH) and Knox County Health Department (KCHD) in Knoxville, Tennessee signed an MOU in 2011 to formally create Tennessee's first Academic Health Department (AHD). The AHD Steering Committee meets quarterly to review activities and accomplishments, address challenges and concerns, and develop plans and strategies to move the AHD forward.
Shared Accomplishments

1. AHD Logic Model
2. Student Education
3. Workforce Development
4. Practice-based Research
5. Community Engagement/Health Improvement
AHD Logic Model

- Need for evaluation of AHDs often cited in the literature
- During year 2, the AHD Steering Committee created a logic model
  - To clarify shared activities and goals
  - To measure progress over time
  - Process involved consulting from Clea McNeely, UT faculty and evaluation expert

Bridging Knowledge, Improving Health

Dr. Clea McNeely, Public Health faculty
Shared Accomplishments

1. AHD Logic Model
2. Student Education
3. Workforce Development
4. Practice-based Research
5. Community Engagement/Health Improvement
MPH Student Education-Presentations by KCHD staff

- PH 509 Seminar
  - Public Health Educator, Healthy Kids, Healthy Communities
  - Environmental Epidemiologist
  - Director of Community Assessment & Health Promotion

- PH 510 Environmental Health
  - Environmental Epidemiologist

- PH 525 Financial Management
  - Finance Director

- PH 552 Community Health Problem Solving
  - Health Educator

Bridging Knowledge, Improving Health
Student Interns at KCHD
12 different majors were represented in academic year 2012-2013

Numbers of student interns

- Kinesiology (UG)
- Public Health
- Pharmacy
- Nutrition
- Pre-med (UG)
- Nursing
- Sociology (UG)
- Social Work
- Dental/pre-Dental
- Child & Family Studies (UG)
- Deaf Studies (UG)
- Anthropology

“My experience at the health department directly influenced my decision to pursue a Master of Public Health degree.”
-Kathryn Webb
Kinesiology intern
Student Projects- *Estimated $130,549.43

- Health equity training resources
- Food Policy Council historical case study
- Community Health Living Index of Nutrition Education Activity Training sites
- Nutritional evaluation of menus in local jail
- Worksite wellness health education materials
- Youth Risk Behavioral Surveillance data analysis & reporting
- Staff trainings (OSHA compliance in Dental; opiate sensitivity, cultural competency)
- KCHD director interviews for Organizational Profile (PHAB accreditation requirement)
- Eat, Play, Live conference
- HIV/AIDS testing, outreach & education
- Nursing student notebook- “what is public health?”
- Process flow mapping for Electronic Health Records implementation
- Workforce development training evaluation
- Socio-cultural study of Guatemalan community- how can we best work with them?
- Tobacco policy case study & recommendations to ban smoking in public housing for elderly and people with disabilities
- PhotoVoice video- children’s voices asking for healthier communities
- Zoonotic sentinel reporting- pilot system with local veterinarians
- Mosquito data compiling for research

*Based on PH Educator starting salary
Student Contributions to KCHD

44 interns in academic year 2012-2013

- *6,593 hours equivalent to 3.4 full-time employees*

- 7 placed directly through UT Dept of PH & many placed due to AHD

- 9 undergraduates decided to pursue an MPH, and 2 of them enrolled in the UT MPH program!

*Does not include clinical rotations*
Success Story #1
Student Education

- **Michael Dinwiddie**, UT Sociology undergraduate student
  - Completed 2 internships with KCHD
    - Developed a Food Policy Council historical case study
    - Interviewed directors to create an organizational profile
      - provided us with a snapshot of our organization, the key influences on how it operates, and the key challenges it faces
      - will provide valuable information for our current strategic planning and accreditation efforts
  - Enrolled in UT MPH in fall 2013

“I feel that my internship experiences provided the perfect introduction to the public health field.”

“Someday he will be directing a health department.”

– Michael’s preceptor
Shared Accomplishments

1. AHD Logic Model
2. Student Education
3. **Workforce Development**
4. Practice-based Research
5. Community Engagement/Health Improvement
Workforce Development-National Conference

4 HD employees & 4 UT faculty attended
3 faculty gave oral presentations

Bridging Knowledge, Improving Health
National Meeting
Connecting researchers & practitioners

Collaboratively planned by faculty & practitioners

- “Effective Strategies for Promoting School Success for Newly-Arrived Adolescent Refugees and Immigrants: New Directions for Research”
- Meeting goal - To identify priority research questions and strategies that will provide practice- and policy-relevant information to help promote school success for newly-arrived refugee and immigrant youth
- Funding support in part from UT Department of Public Health
Workforce Development - UT faculty Contributed to KCHD Trainings

- KCHD’s Women’s Health Conference
  - Included UT faculty presenter, Carole Myers

- KCHD’s Public Health Workforce Development Series (PHWDS)
  - Utilized 2 UT faculty presenters
    - Kathleen Brown, Public Health
    - Carole Myers, College of Nursing
Workforce Development-
Preparing for HD Accreditation

Performance Management System (PMS) development & implementation

- Overseen by KCHD Director of Accreditation & QI who is an AHD steering committee member
- Consultant brought in from Public Health Foundation, funded through public health training center
- Pilot groups are implementing now
- By 2014, will be rolled out organization-wide
### Sample PMS Scorecard

#### Operating Plan for Program, Unit, or Strategic Theme

<table>
<thead>
<tr>
<th>Environmental Health Investigation &amp; Enforcement</th>
<th>Current Yr FY 2012-13</th>
<th>Health Department or Health Partnership</th>
<th>Quarter 3 1/4</th>
<th>2/4</th>
<th>3/4</th>
<th>4/4</th>
<th>Year-to-Date</th>
<th>% Variance Year-to-Date</th>
<th>Desired Direction</th>
<th>OP QI Plan # or Notes?</th>
<th>Data Frequency</th>
<th>Benchmark</th>
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<tbody>
<tr>
<td><strong>COMMUNITY HEALTH OUTCOME Goals: Measures</strong></td>
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<td><strong>GOAL:</strong> Improve EH Outcomes &amp; Eliminate Disparities</td>
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<td>Number EH-related illnesses &amp; injuries per 1,000 residents</td>
<td>0.25</td>
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<td>Number food borne illnesses per 1,000 residents</td>
<td>0.20</td>
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<td>0.60</td>
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<td>Actual</td>
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<td><strong>GOAL:</strong> Minimize EH Risks &amp; Disparities in Risk</td>
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<td>Total outstanding EH violations</td>
<td>10,000</td>
<td>9,200</td>
<td>8,400</td>
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<td>Actual</td>
<td>10,232</td>
<td>9,240</td>
<td>8,340</td>
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<td><strong>COMMUNITY IMPLEMENTATION Objectives: Measures</strong></td>
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<td><strong>OBJ:</strong> Investigate &amp; Contain EH Hazards</td>
<td>PHAB # 2</td>
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<td>% suspected outbreaks with cause identified in 48 hours</td>
<td>95.0%</td>
<td>95.0%</td>
<td>95.0%</td>
<td>98.0%</td>
<td>95.0%</td>
<td>-13%</td>
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<td>Actual</td>
<td>92.1%</td>
<td>88.4%</td>
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<td>Average days to mitigate actual outbreaks</td>
<td>3.00</td>
<td>3.00</td>
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<td>3.00</td>
<td>18%</td>
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<td>Actual</td>
<td>2.88</td>
<td>3.00</td>
<td>4.08</td>
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<td><strong>OBJ:</strong> Enforce Environmental Health Codes</td>
<td>PHAB # 6</td>
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<td>% establishments inspected in top safety tier for its type</td>
<td>66.0%</td>
<td>69.0%</td>
<td>72.0%</td>
<td>75.0%</td>
<td>72.0%</td>
<td>4%</td>
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<td>Actual</td>
<td>64.8%</td>
<td>70.2%</td>
<td>75.0%</td>
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<td>% inspections on schedule (including re-inspections)</td>
<td>95.0%</td>
<td>95.0%</td>
<td>95.0%</td>
<td>95.0%</td>
<td>95.0%</td>
<td>1%</td>
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<td>Actual</td>
<td>98.3%</td>
<td>84.0%</td>
<td>97.8%</td>
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<td><strong>COMMUNITY PROCESS &amp; LEARNING Objectives: Measures</strong></td>
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<td><strong>OBJ:</strong> Develop Policies that Incentivize Compliance</td>
<td>PHAB # 5</td>
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<td>% fee &amp; fine schedules updated &amp; approved by BOH</td>
<td>10%</td>
<td>20%</td>
<td>20%</td>
<td>20%</td>
<td>50%</td>
<td>10%</td>
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<td>Actual</td>
<td>12%</td>
<td>15%</td>
<td>28%</td>
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<td><strong>OBJ:</strong> Monitor Environmental Health Status</td>
<td>PHAB # 1</td>
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<td><strong>Initiative:</strong> Assess alternative data collection approaches for accuracy, cost, and timeliness by 9/30/2013</td>
<td>Target</td>
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<td><strong>OBJ:</strong> Continuously Improve Quality</td>
<td>PHAB # 9</td>
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<td><strong>Initiative:</strong> Review results of internal QI projects to revise performance targets by 6/30/2013</td>
<td>Target</td>
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<td><strong>COMMUNITY ASSETS Objectives: Measures</strong></td>
<td>PHAB # 4</td>
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<td><strong>OBJ:</strong> Engage the Community to Reduce Need for Enforcement</td>
<td>PHAB # 8</td>
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<td>Number targeted establishments that participated in training</td>
<td>150</td>
<td>200</td>
<td>300</td>
<td>300</td>
<td>660</td>
<td>1%</td>
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<td>Actual</td>
<td>144</td>
<td>199</td>
<td>312</td>
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<td><strong>OBJ:</strong> Maintain a Competent PH Workforce</td>
<td>PHAB # 8</td>
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<td>% positions requiring certification with up-to-date certified staff</td>
<td>90%</td>
<td>95%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>-7%</td>
<td>↑</td>
<td>QI Plan 1</td>
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<td>Actual</td>
<td>75%</td>
<td>80%</td>
<td>93%</td>
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<td>% staff meeting their training &amp; development plans</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>25%</td>
<td>↑</td>
<td>Note</td>
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<tr>
<td>Actual</td>
<td>90%</td>
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Bridging Knowledge, Improving Health
Shared Accomplishments

1. AHD Logic Model
2. Student Education
3. Workforce Development
4. Practice-based Research
5. Community Engagement/Health Improvement
Practice-based Research to Improve the Public’s Health

Public Health Grand Rounds

Objective: One joint research project per year

– Question originates in the health department
– Research yields actionable recommendations to improve operations, services, or community health
– Findings to be presented & published
Success Story #2
Practice-based Research

- Research question: How can we reduce Women’s Health clinic missed appointments?
- Mixed methods study, analyzed existing attendance records & conducted interviews
- Brown/Myers received
  - $2000 small grant award from the UT Department of Public Health to complete this project
  - $750 for gift cards from the UT Center for Health Sciences Research
- Findings to be presented in fall 2014

Co-PI’s

Kathleen Brown
MPH, PhD, director, Community Assessment & Health Promotion, Knox County Health Department

Carole Myers
PhD, MSN, faculty, UT College of Nursing & Department of PH

Bridging Knowledge, Improving Health
Shared Accomplishments

1. AHD Logic Model
2. Student Education
3. Workforce Development
4. Practice-based Research
5. Community Engagement/Health Improvement
Community Engagement - Sharing Lessons Learned

AHD Learning Community
- Actively participated in conference calls
- Posted resources to serve as model for others

Direct Consultation
- Provided phone, email, and face-to-face consultation to LHDs and Universities who are developing AHDs
- Impact: East TN State University & Sullivan County formed an AHD in Northeast TN, with 3 more being planned across the state!

Bridging Knowledge, Improving Health
Community Engagement - Sharing Lessons Learned

- Publications

- Conference Presentations

Bridging Knowledge, Improving Health
Success Story #3
Community Engagement / Health Improvement

PH 552: Community Health Problem Solving Class

• MPH students conducted qualitative & quantitative assessments in the Five Points neighborhood
• Developed a report
• Shared findings with neighborhood
• Estimated value of student effort was $9,975

Collaboration led by

Sheryl Ely
Health Educator

Laurie Meschke
Faculty
Future Directions

• Establish recurring budget line for AHD Coordinator
• Pursue collaborative grant opportunities, particularly on evidence-based practice
• Establish a practice component with all required MPH courses
• Publication of logic model & WH research study
• Continue advancing our AHD model nationally
AHD Contact Information

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