

# 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

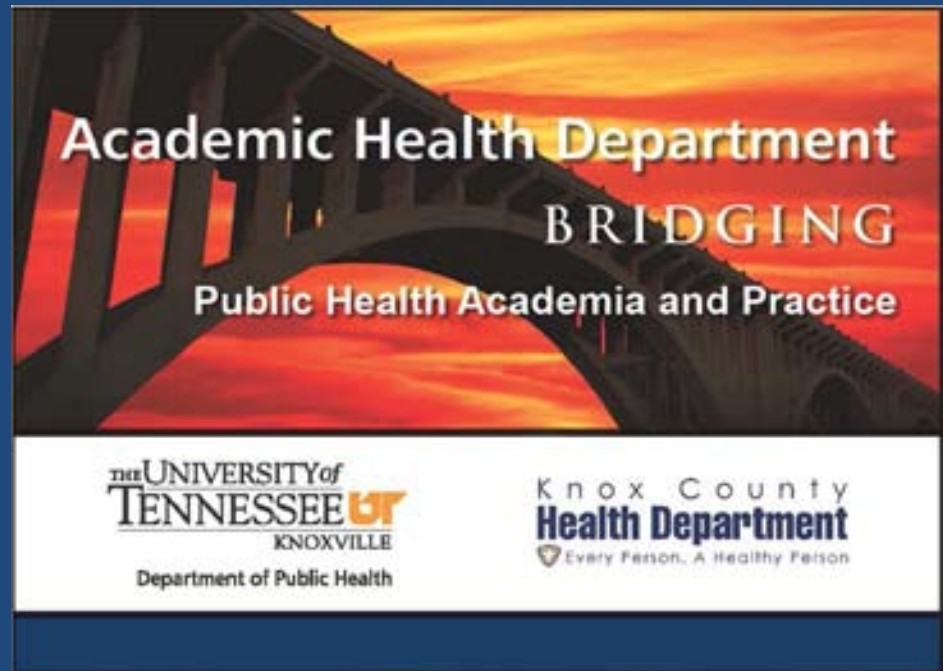
Paul Erwin, DrPH, MD, Head, Department of Public Health

Julie Grubaugh, MPH, AHD Coordinator



# Agenda

- Welcome
- Background
- Shared Accomplishments
- Future Directions

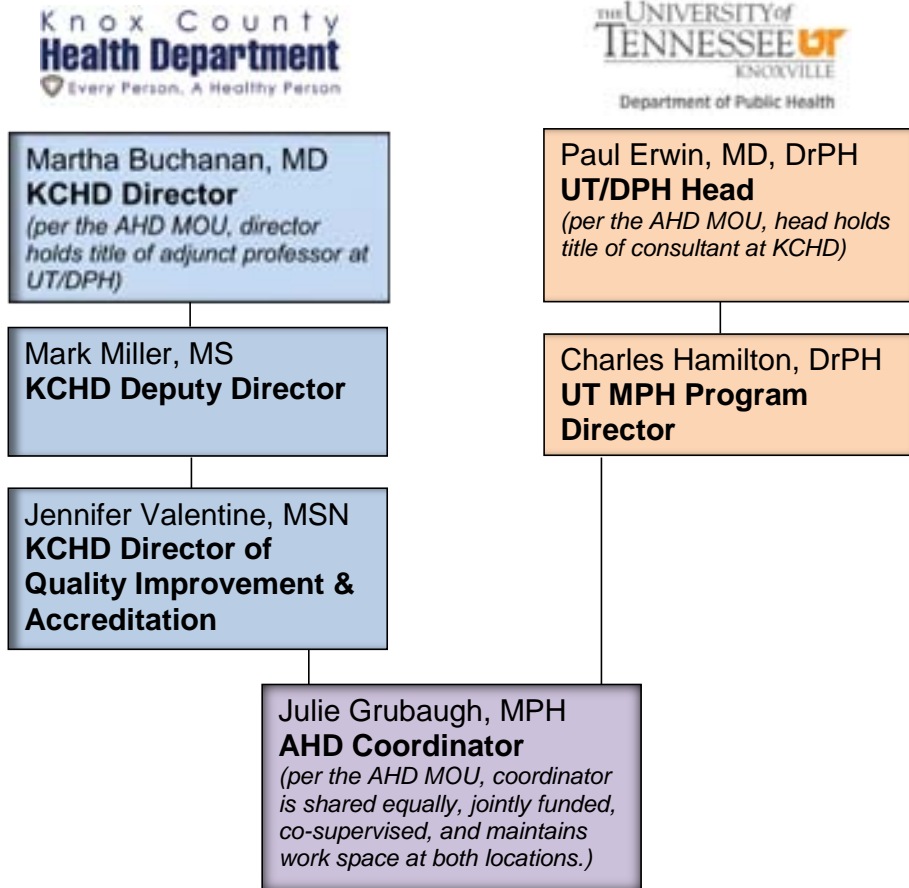


# Background

- 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*

# UT-Knox County Academic Health Department (AHD)

## Steering Committee



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



# Shared Accomplishments

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# 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





# Student Interns at KCHD

12 different majors were represented in academic year 2012-2013



“My experience at the health department directly influenced my decision to pursue a Master of Public Health degree.”

-Kathryn Webb  
Kinesiology intern

Kinesiology (UG)

Public Health

Pharmacy

Nutrition

Pre-med (UG)

Nursing

Sociology (UG)

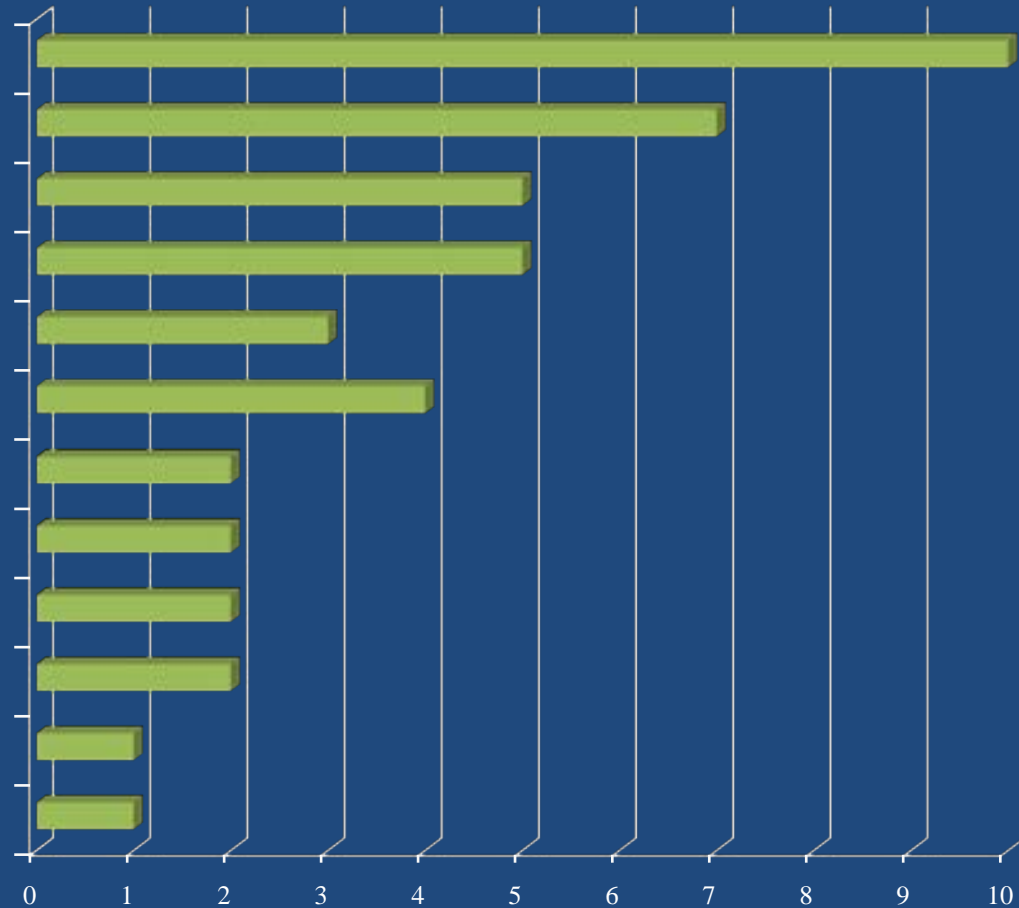
Social Work

Dental/pre-Dental

Child & Family Studies (UG)

Deaf Studies (UG)

Anthropology



Numbers of student interns

# Student Projects- \*Estimated \$130,549.43

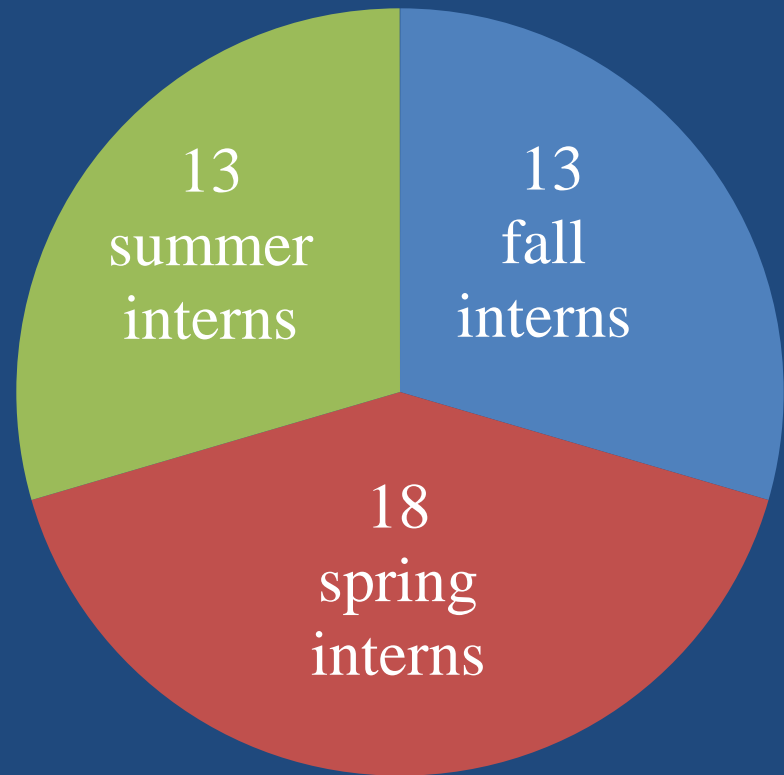
- Health equity training resources
- Food Policy Council historical case study
- Community Health Living Index of Nutrition Education Activity Training sites
- Nutritional evaluation of menus in local jail
- Worksite wellness health education materials
- Youth Risk Behavioral Surveillance data analysis & 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!



# 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

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# Workforce Development- National Conference



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

# National Meeting

## Connecting researchers & practitioners

**Collaboratively  
planned by faculty  
& practitioners**



Clea McNeely,  
UT faculty



Laurie  
Meschke, UT  
faculty



Kathleen  
Brown, KCHD  
practitioner

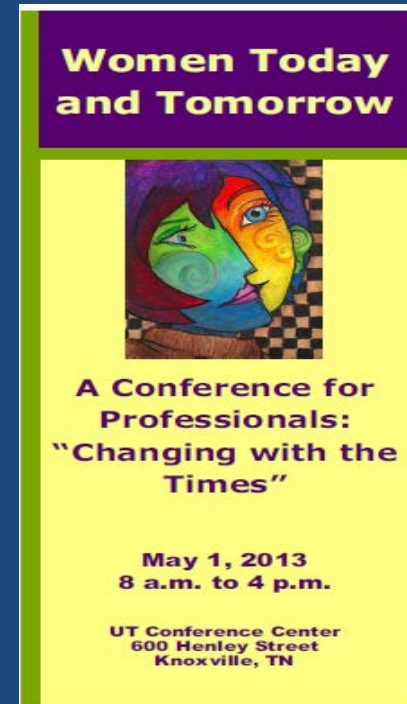


Lyn Morland, Bridging  
Refugee Youth and Children's  
Services practitioner

- **“Effective Strategies for Promoting School Success for Newly-Arrived Adolescent Refugees and Immigrants: New Directions for Research”**
- Convened 26 researchers & practitioners at the Urban Institute, Washington, DC, May 30-31, 2013
- **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

Scorecard Tracking

Operating Plan for Program, Unit, or Strategic Theme Environmental Health Investigation & Enforcement	Current Yr FY 2012-13	Health Department or Health Partnership Our Fair County Public Health Dept.				Quarter 3			Report Date 4/26/2013	Plan Date 6/15/2012	
COMMUNITY HEALTH OUTCOME Goals: Measures		1/4	2/4	3/4	4/4	Year-to-Date	% Variance Yr-to-Date	Desired Direction	OP QI Plan # or Notes?	Data Frequency	Benchmark
<b>GOAL: Improve EH Outcomes &amp; Eliminate Disparities</b>											
Number EH-related illnesses & injuries per 1,000 residents	Target	0.25	0.25	0.25	0.25	0.75	<b>-11%</b>	↓			
	Actual	0.24	0.31	0.12		0.67					
Number food borne illnesses per 1,000 residents	Target	0.20	0.20	0.20	0.20	0.60	<b>-5%</b>	↓			
	Actual	0.20	0.21	0.16		0.57					
<b>GOAL: Minimize EH Risks &amp; Disparities in Risk</b>											
Total outstanding EH violations	Target	10,000	9,200	8,400	8,000	8,400	<b>-1%</b>	↓			
	Actual	10,232	9,240	8,340		8,340					
COMMUNITY IMPLEMENTATION Objectives: Measures		1/4	2/4	3/4	4/4	Year-to-Date	% Variance Yr-to-Date	Desired Direction	OP QI Plan # or Notes?	Data Frequency	Benchmark
<b>OBJ: Investigate &amp; Contain EH Hazards</b>	<b>PHAB # 2</b>										
% suspected outbreaks with cause identified in 48 hours	Target	95.0%	95.0%	95.0%	95.0%	95.0%	<b>-13%</b>	↑			
	Actual	92.1%	88.4%	75.0%		82.2%					
Average days to mitigate actual outbreaks	Target	3.00	3.00	3.00	3.00	3.00	<b>18%</b>	↓			
	Actual	2.88	3.00	4.08		3.54					
<b>OBJ: Enforce Environmental Health Codes</b>	<b>PHAB # 6</b>										
% establishments inspected in top safety tier for its type	Target	66.0%	60.0%	72.0%	75.0%	72.0%	<b>4%</b>	↑			
	Actual	64.8%	70.2%	75.0%		75.0%					
% inspections on schedule (including re-inspections)	Target	95.0%	95.0%	95.0%	95.0%	95.0%	<b>1%</b>	↑			
	Actual	96.3%	84.0%	97.8%		95.9%					
COMMUNITY PROCESS & LEARNING Objectives: Measures		1/4	2/4	3/4	4/4	Year-to-Date	% Variance Yr-to-Date	Desired Direction	OP QI Plan # or Notes?	Data Frequency	Benchmark
<b>OBJ: Develop Policies that Incentivize Compliance</b>	<b>PHAB # 5</b>										
% fee & fine schedules updated & approved by BOH	Target	10%	20%	20%	20%	50%	<b>10%</b>	↑			
	Actual	12%	15%	28%		55%					
<b>OBJ: Monitor Environmental Health Status</b>	<b>PHAB # 1</b>										
<i>Initiative: Assess alternative data collection approaches for accuracy, cost, and timeliness by 9/30/2013.</i>	Target								Note		
	Actual										
<b>OBJ: Continually Improve Quality</b>	<b>PHAB # 9</b>										
<i>Initiative: Review results of internal QI projects to revise performance targets by 6/30/2013.</i>	Target								Note		
	Actual										
COMMUNITY ASSETS Objectives: Measures		1/4	2/4	3/4	4/4	Year-to-Date	% Variance Yr-to-Date	Desired Direction	OP QI Plan # or Notes?	Data Frequency	Benchmark
<b>OBJ: Engage the Community to Reduce Need for Enforcement</b>	<b>PHAB # 4</b>										
Number targeted establishments that participated in training	Target	150	200	300	300	650	<b>1%</b>	↑			
	Actual	144	199	312		655					
<b>OBJ: Maintain a Competent PH Workforce</b>	<b>PHAB # 8</b>										
% positions requiring certification with up-to-date certified staff	Target	90%	95%	100%	100%	100%	<b>-7%</b>	↑	QI Plan 1		
	Actual	75%	80%	93%		93%					
% staff meeting their training & development plans	Target	100%	100%	100%	100%	100%	<b>-25%</b>	↑	Note		
	Actual	60%	84%	75%		75%					

# Shared Accomplishments

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# 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

### Co-PI's

- 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



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

# Shared Accomplishments

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# Community Engagement- Sharing Lessons Learned

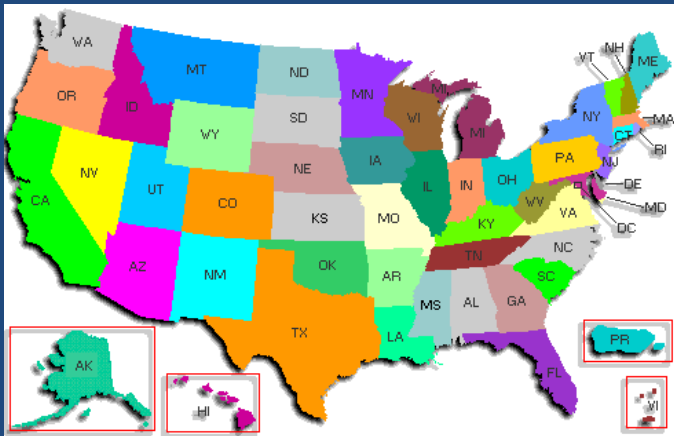


## AHD Learning Community

- 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!



# Community Engagement- Sharing Lessons Learned

- Publications



- Conference Presentations





# 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



You are invited to:  
*A presentation by UTK graduate students in PubH552 on*  
**The Five Points Community:  
A Foundation for the Future**  
*A collaborative project of the Community, Knox County Health Department and the University of Tennessee at Knoxville*

**WHEN:** April 29, 2013 from 8:15 am to 10:30 am  
**WHERE:** Knox County Health Department, Community Room

*UTK students have determined the strengths and needs of the Five Points Community through the use of the YMCA's Community Healthy Living Index (CHLI), focus groups and other needs assessment tools. They will present recommendations for the community, its leaders, and organizations to assist in exploring the next steps needed to create a vibrant community!*

**RSVP to Sheryl Ely at [sheryl.ely@knoxcounty.org](mailto:sheryl.ely@knoxcounty.org) or 865-215-5187**

*\*A continental breakfast will be provided.\**

Collaboration led by



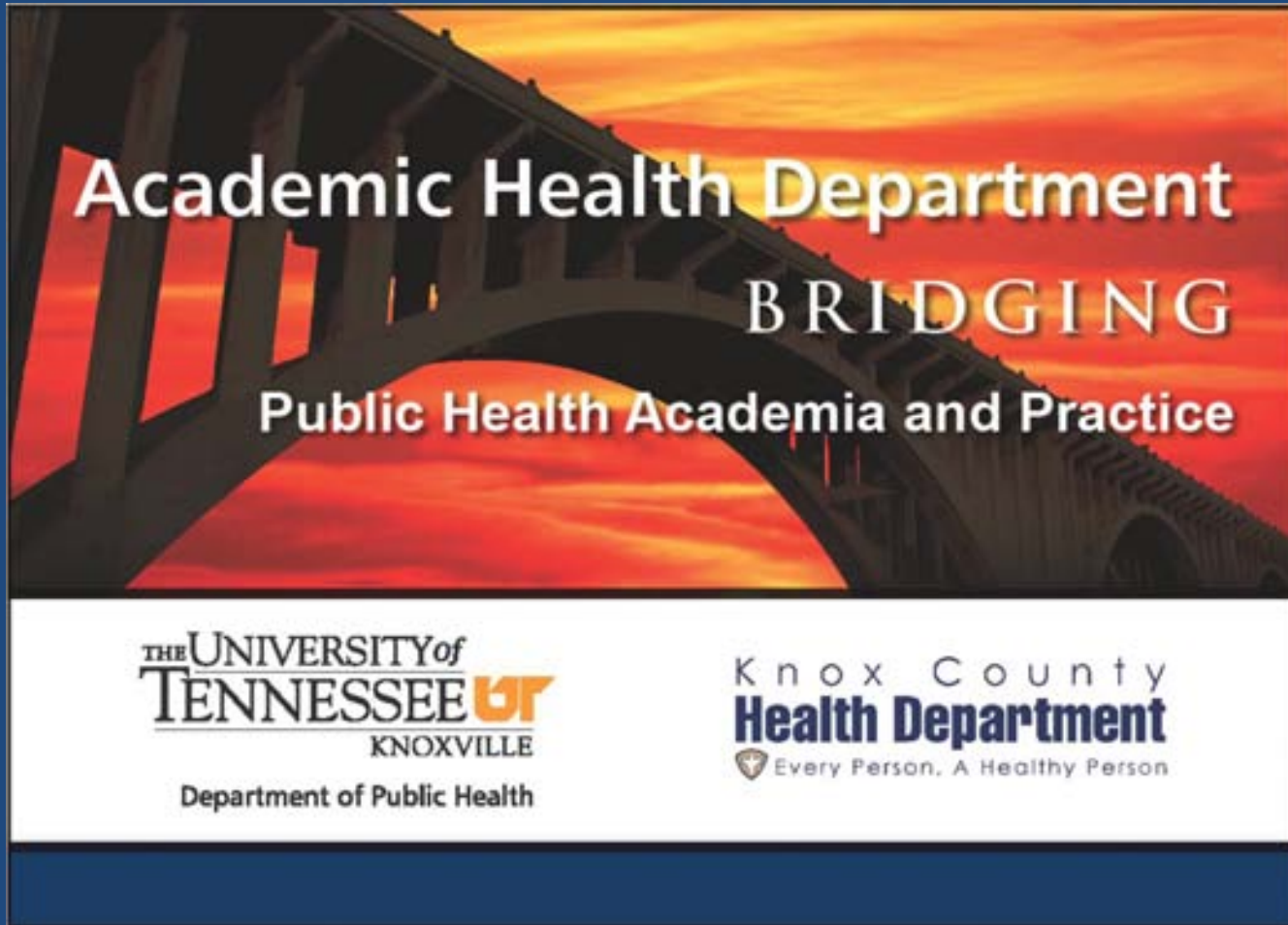
Sheryl Ely  
Health Educator

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

# Questions?



**Academic Health Department**  
**BRIDGING**  
**Public Health Academia and Practice**

**THE UNIVERSITY of**  
**TENNESSEE**   
KNOXVILLE  
Department of Public Health

**Knox County**  
**Health Department**  
 Every Person. A Healthy Person

# AHD Contact Information



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