COMMUNITY OVERVIEW
The Vanderbilt University Department of Health Policy is committed to bringing together a broad group of scholars devoted to developing health policy solutions. Through the Community Health Peer Learning (CHP) Program, they aim to decrease infant mortality rates by developing a data-sharing network to study predictors of infant mortality and identify at-risk mothers and infants. With shared data from various sectors, the organization will be able to aggregate and analyze disparate data that will allow real-time identification of at-risk pregnant women and referral to specific and appropriate interventions. By engaging new community partners and including additional data, they anticipate improving their predictive model until they can correctly place 95 percent of prior years’ infant deaths into the highest tercile of risk.

PROJECT APPROACH
In order to identify high-risk pregnant women and families for referral to community-specific and culturally appropriate interventions, the project will:

- Gather data on health status and social, economic, and environmental conditions that may affect a woman during pregnancy or both a postpartum woman and infant;
- Aggregate and analyze disparate data types to formulate recommendations for development of the predictive model and implementation strategy;
- Assess and incorporate new data sources as needed in an iterative process;
- Build upon existing models, interventions, and programs; and
- Host community engagement studios in order to facilitate novel relationships and data sharing processes between partners.

ANTICIPATED IMPACT
The development of an effective predictive model will allow community partners to improve the efficacy of their intervention strategies and decrease infant mortality in Nashville. The community and key partners are committed to using their work to develop concrete policy recommendations that can be implemented in Nashville and other communities nationwide.

COMMUNITY SPOTLIGHT

Despite many programs and resources dedicated to this problem, no coordinated solution has been identified to date to address the full scale of the infant mortality challenge in Nashville.

PROJECT SNAPSHOT

<table>
<thead>
<tr>
<th>Group Type</th>
<th>Grantee</th>
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</thead>
<tbody>
<tr>
<td>Site Type</td>
<td>Not-for-Profit (Societies, Assc., Educ., Research)</td>
</tr>
<tr>
<td>Project Focus</td>
<td>Well-being Health, Infant Mortality</td>
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<tr>
<td>Health Objective</td>
<td>Decrease infant mortality rates and better identify and target interventions</td>
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<tr>
<td>Anticipated Products</td>
<td>Predictive model</td>
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<tr>
<td>Sectors</td>
<td>Lead: Academia / Research</td>
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<td>Partners: Public Health, Other Community-based</td>
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<td></td>
<td>Data contribution: Public Health, Housing / Homelessness, Public Safety / Law Enforcement, Social / Human Services, Other Community-based</td>
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<tr>
<td>Data Types</td>
<td>Administrative: insurance claims, WIC enrollment, utility assistance, etc.; Community-generated; Surveillance</td>
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<tr>
<td>Target Population</td>
<td>Expectant mothers and infants</td>
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<tr>
<td>Impact Level</td>
<td>Community</td>
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PARTNERS/COLLABORATORS

• Metro Public Health Department (MPHD) of Nashville and Davidson County: As the health department for Nashville and Davidson County, MPHD leads public health initiatives across the area and has implemented several programs aimed at promoting healthy pregnancies and safe environments for infants. MPHD currently collects vital records data and detailed information on infant deaths to target infant mortality interventions.

• Tennessee Department of Health, Division of Family Health and Wellness: Tennessee’s Department of Health is responsible for implementing public health policy on the state level and for aggregating data from county health departments. As part of the Division of Family Health and Wellness, the Maternal and Child Health section’s mission is: “To maximize the potential of Tennessee children and families.”

• NashvilleHealth: A program of the Community Foundation of Middle Tennessee, NashvilleHealth is a non-profit, neutral convener that works towards the goal of improving the health of Nashville’s residents. It aims to enhance dialogue, align resources, and build strategic partnerships to facilitate the development and scaling of health promotion solutions.

MEET THE PROJECT TEAM!

**Melinda Buntin, Ph.D.**
Professor & Chair, Department of Health Policy
CHP Role: Principal Investigator
Contact: melinda.buntin@vanderbilt.edu

Ask her about:
- Modeling a risk prediction algorithm
- Health care financing and reimbursement
- Insurance coverage

**Kim Unertl, Ph.D.**
Assistant Professor, Biomedical Informatics
CHP Role: Investigator
Contact: kim.unertl@vanderbilt.edu

Ask her about:
- Applying community-based participatory research principles to health information technology projects
- Understanding components of a regional health information ecology and their interactions
- Identifying facilitators and barriers to incorporating health information exchange into clinical workflow

**Erika Leslie, M.S.P.H., Ph.D.**
Postdoctoral Fellow
Contact: erika.leslie@vanderbilt.edu

Ask her about:
- Health disparities
- Social determinants of health
- Migrant health
- Racial identity

**Christine Whitmore, Ph.D.**
Research Assistant Professor, Health Policy
CHP Role: Project Manager
Contact: christine.whitmore@vanderbilt.edu

Ask her about:
- Conducting focus groups
- Developing survey instruments
- Gathering and using qualitative data

COMMUNITY HEALTH PEER LEARNING PROGRAM  www.academyhealth.org/CHPhealthIT