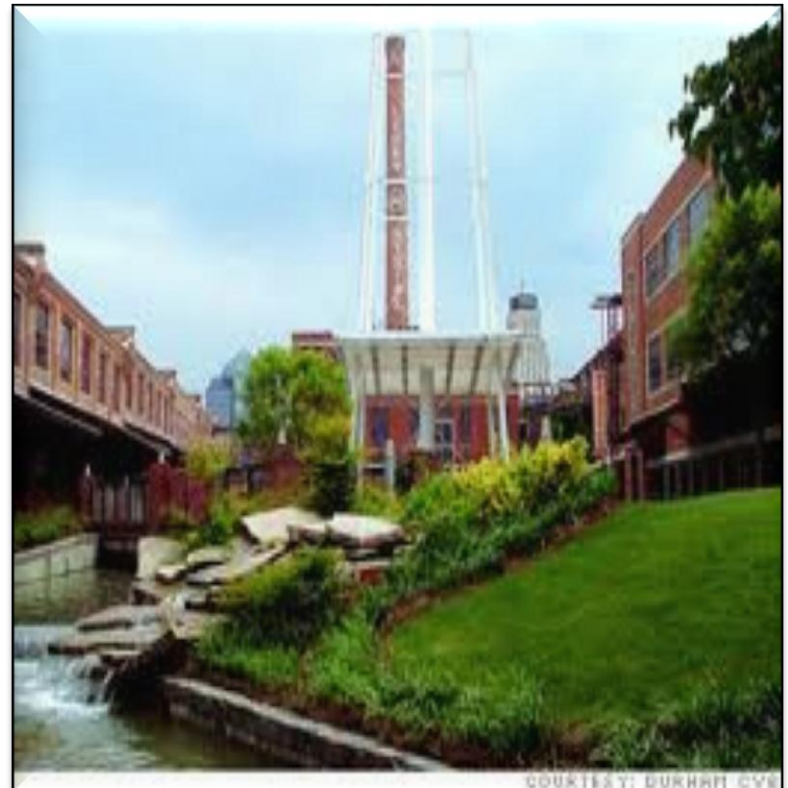


Durham and Duke - From a “City of Medicine” to a Community of Health

J. Lloyd Michener, MD - Professor and Chair
Department of Community and Family Medicine – Duke Medicine
Public Health Workforce - Atlanta, Georgia
December 13, 2012



North Carolina

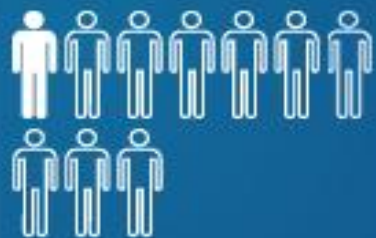
State Rank: 32



2010 rank: 35
Improved: 3

Top Five Healthiest States

- 1. Vermont
- 2. New Hampshire
- 3. Connecticut
- 4. Hawaii
- 5. Massachusetts



Diabetes
Rank **36**

30 Obesity
Rank

28.6% of people in NC
have a BMI > 30

Percent of
people obese
nationally **27.5**



1 in 10
people in NC
suffers from
diabetes

12.0

percent
reported
binge
drinking



**Binge Drinking
Rank 8**

We have a strong Public Health Department



Public Health

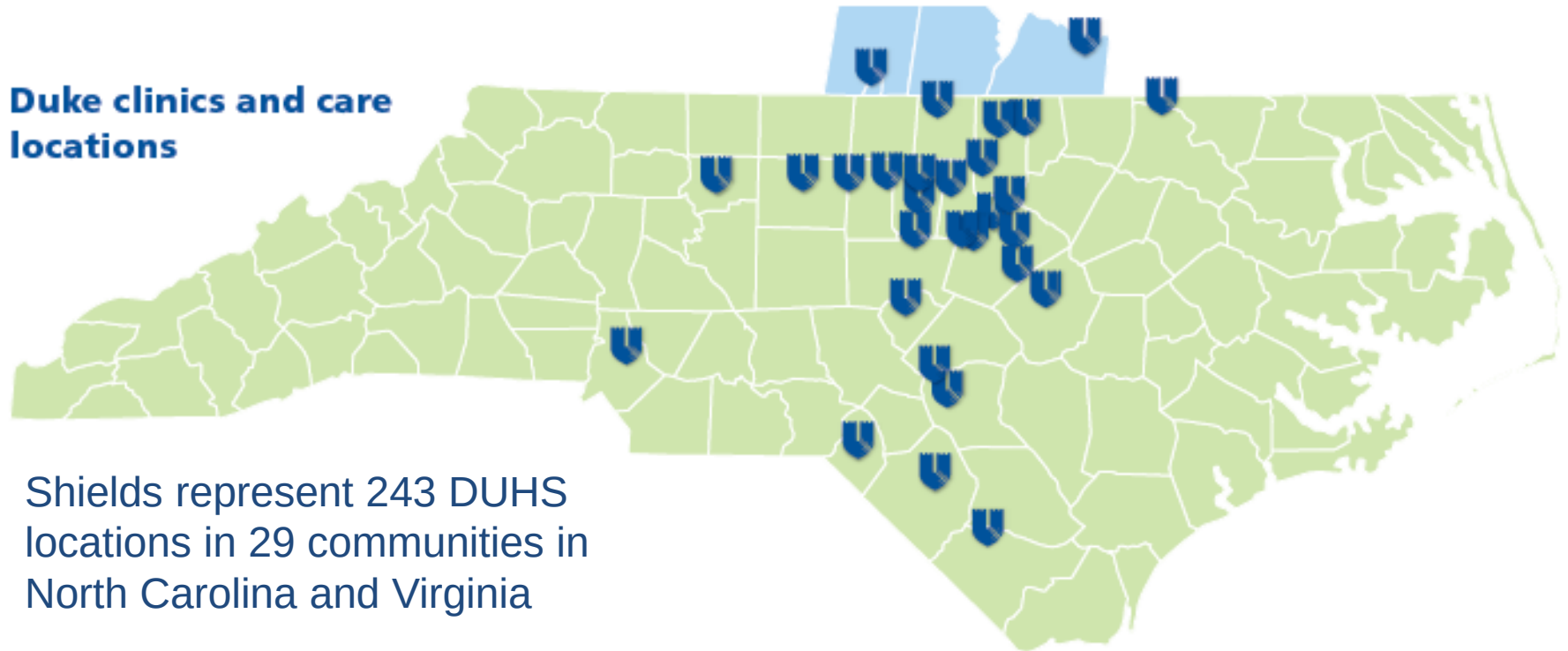
*"Working with our community
to prevent disease, promote health,
and protect the environment"*

Adopted by the Board of Health,
July, 2011.



GAYLE B. HARRIS, MPH, RN
Public Health Director

Duke provides services across central NC



Community Care of North Carolina

62,000 Medicaid patients, 52 primary care sites, all health departments

6 Counties: Durham (DCHN), Vance, Granville, Warren, Person, Franklin

Latino population

Teams of community health workers, DSS social workers, nurses work with patients at home

- patient education and support, system navigation, self-management skill training

Electronic links among practices, hospitals, DSS, Health Departments, and care teams

\$2.50 pmpm

\$2.50 to Network

- additional \$2.50/\$3.00 pmpm for high acuity enrollees

North Carolina Division of Medical Assistance
Estimated Cost Savings Calculated Using Method 1

Fiscal Year	Avg members per month	PMPM Savings	Total Annual Savings	Percent Savings
FY07	983,356	\$8.73	\$103,000,000	1.9%
FY08	1,083,636	\$15.69	\$204,000,000	3.4%
FY09	1,176,778	\$20.89	\$295,000,000	4.6%
FY10	1,253,292	\$25.4	\$382,000,000	5.8%

*Source: Milliman Client Report for the NC Division of Medical Assistance
December 15, 2011*

Improving Health Care for Seniors: Just For Us

- 350 patients since 2000
- Average age 70, multiple chronic conditions
- 44% have mental illness
- All are home-bound
- 84% African-American; many with low to no family support
- Low literacy or illiterate



Community Partners

City of Durham, Housing Authority
Lincoln Community Health Center
Durham Council on Seniors
Area Mental Health Agency
Durham County Health Department
Durham County Department of
Social Services

Practice Partners

Duke CFM, SON, DUH, DRH,
Center for Aging,
Department of Psychiatry

Just For Us Outcomes

Ambulance costs		49%
ER costs		41%
Inpatient costs		68%
Prescription costs		25%
Home health costs		52%

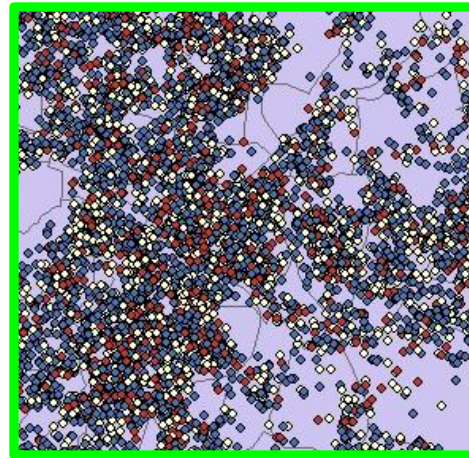
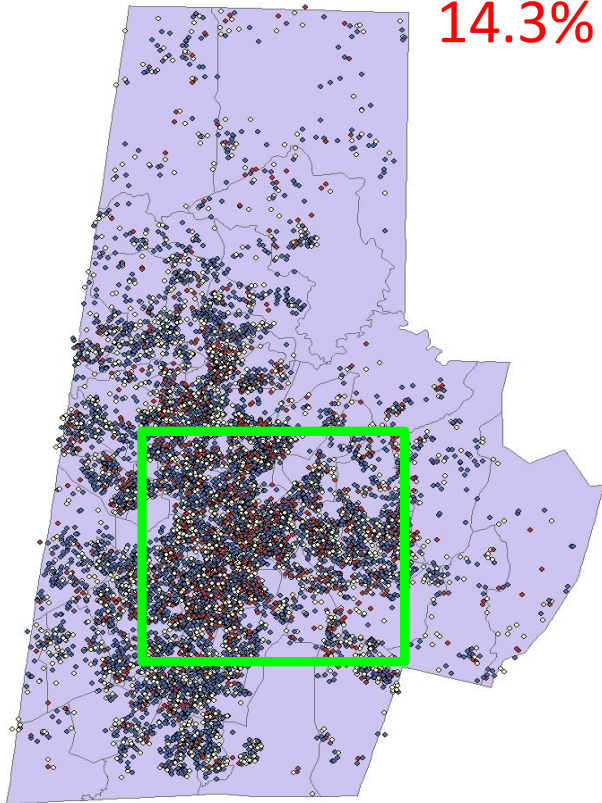
All patients with hypertension	79% $\leq$ 140/90
Diabetics with hypertension	84% $\leq$ 140/90

Diabetes in Durham

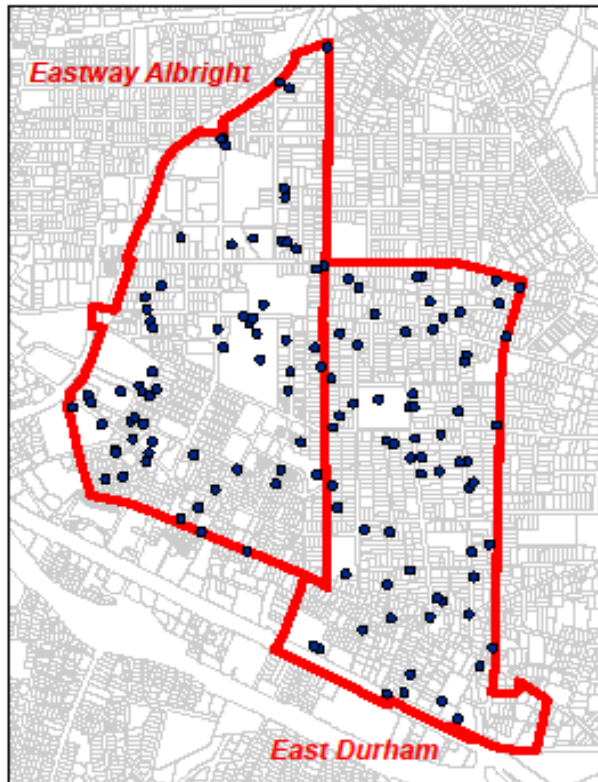
- DM patients seen at Duke, 2007-2009
- 14,345 unique patients:

8.7% of all patients >20 years old

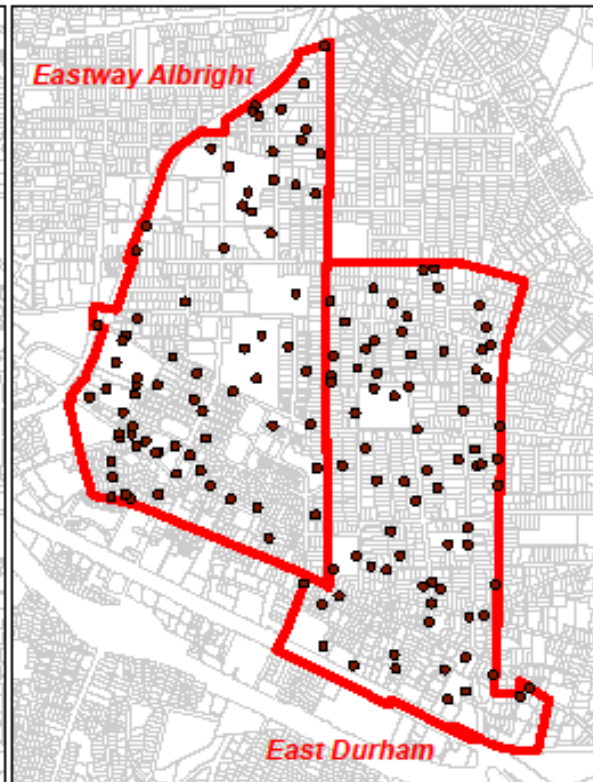
14.3% of all patients >40 years old



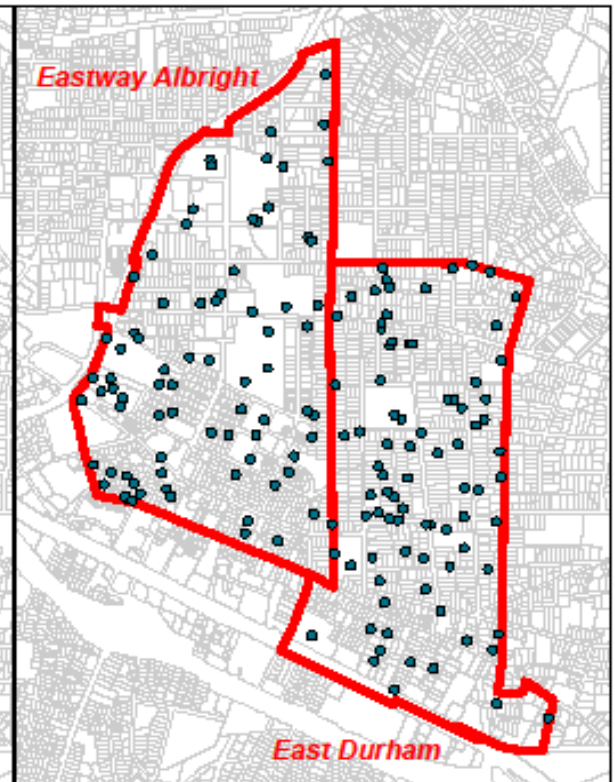
NE Central Durham Obesity Patients



2007 Obesity Patients
Count: 131
Mean Age: 41
African American: 85%
White: 9%
Female: 79%
On Medicaid/Medicare: 55%
Average Health System Visits: 16
Average ED Visits: 2



2008 Obesity Patients
Count: 149
Mean Age: 41
African American: 82%
White: 14%
Female: 74%
On Medicaid/Medicare: 59%
Average Health System Visits: 17
Average ED Visits: 2



2009 Obesity Patients
Count: 161
Mean Age: 40
African American: 79%
White: 12%
Female: 78%
On Medicaid/Medicare: 59%
Average Health System Visits: 18
Average ED Visits: 2

Building Capacity in NECD Neighborhoods



Northeast Central Durham Neighborhood Community Assets



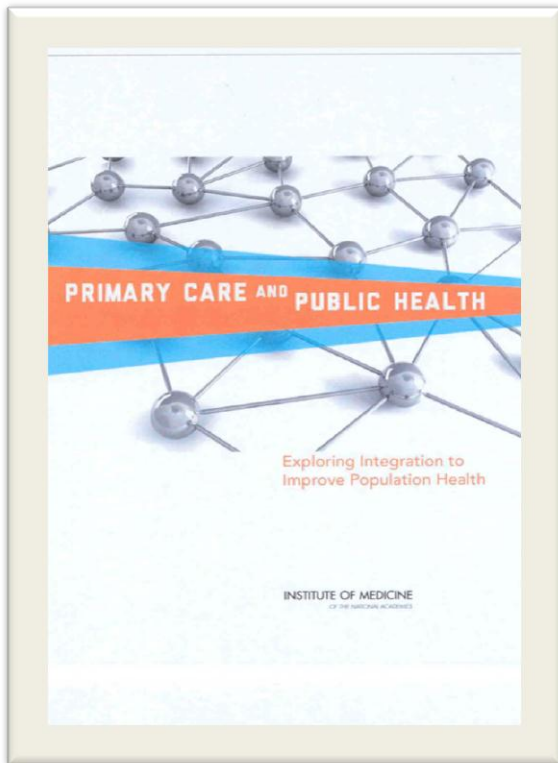
DHI teams are connecting community partners and working with neighborhood residents to ensure:

- **Healthy schools and neighborhoods**
- **Safe places to exercise**
- **Access to healthy foods**
- **Access to health information**

For example, the Achieving Healthy Bodies for a Lifetime (AHL) team has been successful in:

- Calculating body mass index (BMI) for every child at YE Smith (n=360)
- Providing raw fruit or vegetable (FV) snack to all students at YE Smith three days/week in conjunction with Durham Public Schools (DPS) and Child Nutrition Services (CNS) USDA grant
- Achieved 100% teacher and student participation in Teacher & Student Walking Groups and 100% classroom participation in the Dine for Life program offered by DCHD Nutrition Division and augmented by AHL.
- Organized and taught first half of premier Interfaith Food Shuttle cooking class offered as “Friday Club” choice in regular school curriculum.
- Launched new aspect of “Let’s Move, Faith Communities” program in Union Baptist; expanding to other faith organizations.

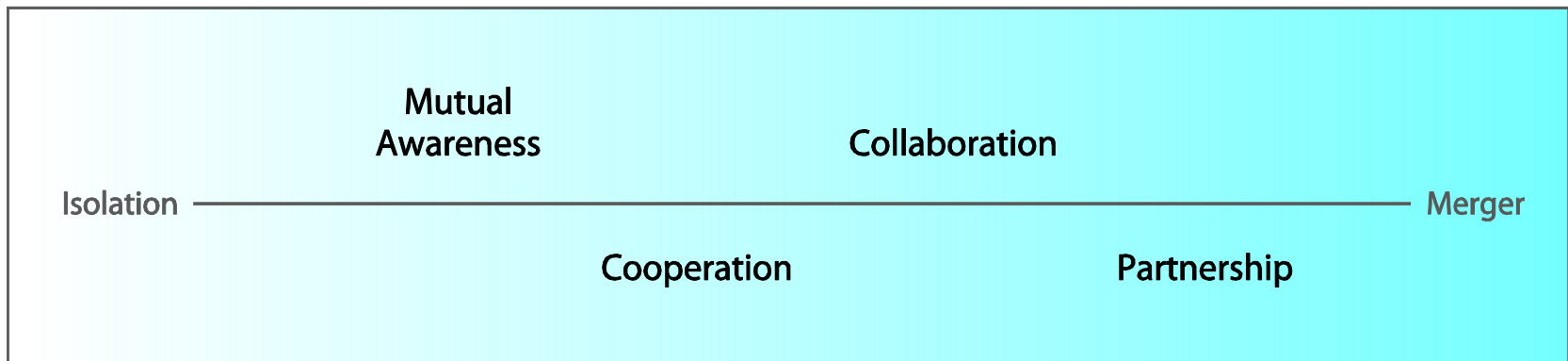
DHI teams are currently evaluating their efforts and expanding them to other health ambassador sites.



INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES

www.iom.edu/primarycarepublichealth

Degrees of Integration:



The Population Health Competency Map - for Clinicians

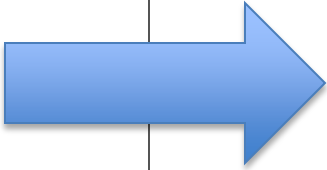
Training Levels:

1. **Foundational** — Basic **awareness** of the principles and appreciation for their impact and importance in community health.
2. **Applied** — An intermediate level of learning, enabling **skilled participation** in community-engaged population health activities.
3. **Proficient** — Advanced learners who achieve competence for **independent practice** or leadership of the design and implementation of community-engaged health improvement activities.

Competencies

- Public Health
- Community Engagement
- Critical Thinking
- Team Skills

Competency Map: Integrating Population Health into Clinician Education

Learners:	medical PA, PT students	FM residents	nurse leaders	FM faculty
Competency:				
Public Health	F			P
Community Engagement	F			P
Critical Thinking	F			P
Team Skills	F			P

F = Foundational (Basic) Awareness

A = Applied (Intermediate) Skilled participation

P = Proficient (Advanced) Independent practice

Conclusions

- Community health takes a community
- Needs vary; one size does not fit all
- **Redesigning care can improve health – especially for those most in need**



Meeting Community Health Needs – The Combined Role of the Physician, Health Department and Hospital

Social and economic changes - the lengthening life span, the shift of population from rural to urban areas, the growth of industry and other factors - have brought about radical changes in the nation's health needs. Our greatest health problem today is chronic illness. To cope with these problems public health, medical care and hospital services, which are at present geared primarily for acute illness, must be revised.

L. E. BURNEY, M.D.

Assistant Surgeon General, U. S. Public Health Service,
Department of Health, Education, and Welfare, Washington 25, D. C.
Presented before the Joint Meeting of the Sections on Public Health and Pediatrics
at the 84th Annual Session of the California Medical Association, San Francisco,
May 1-4, 1955.