

Addressing diabetes disparities through Sub-county analysis of multiple data sources

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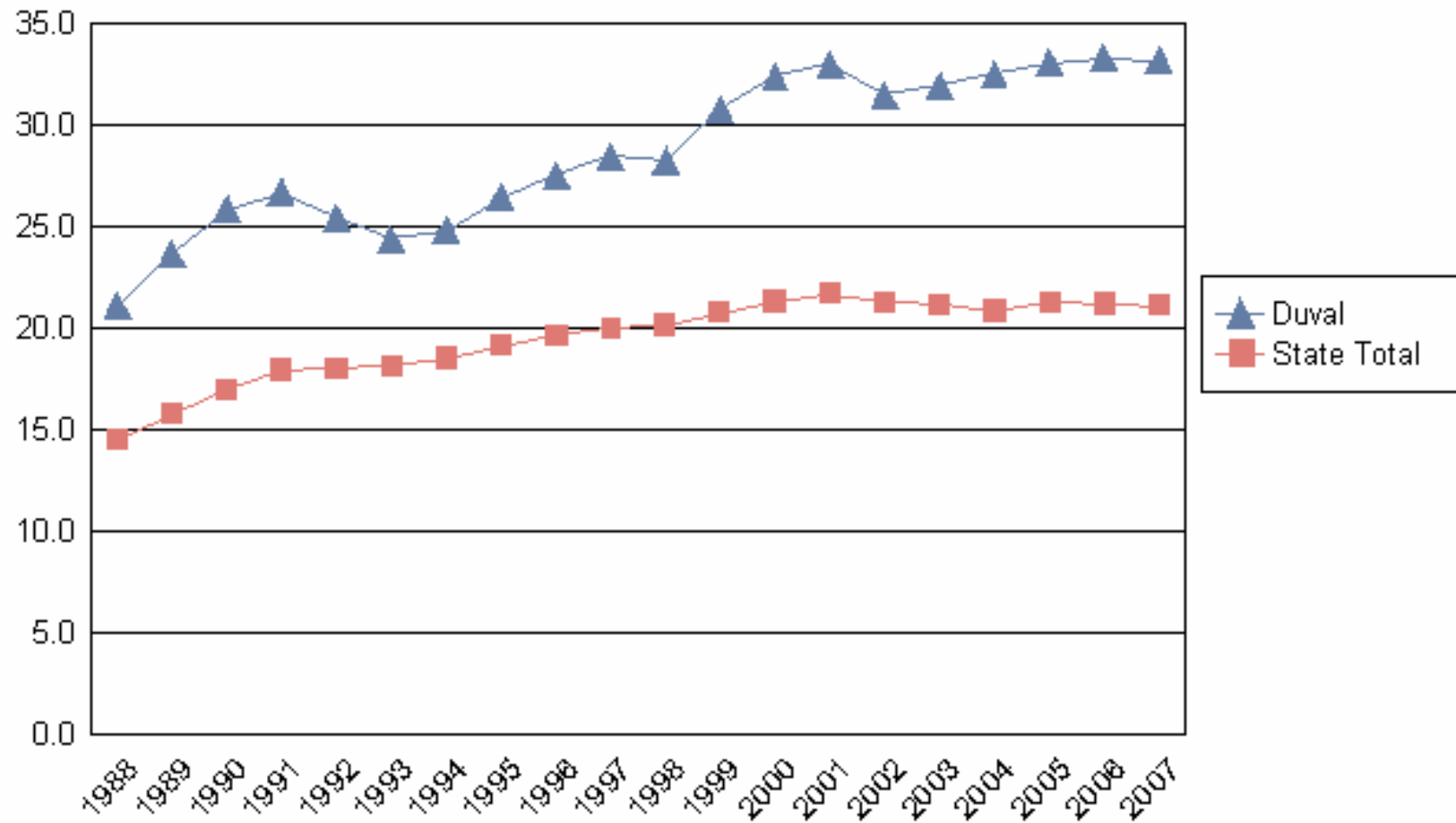
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Diabetes Prevalence & Impact

- ❑ National & International Epidemic
- ❑ Prevalence estimated from national surveys
- ❑ Other local prevalence estimates
 - Hospital & primary care diagnosis
 - BRFSS type surveys

Yearly Trend in Diabetes 3-Year Death Rate / 100,000 (age adjusted)



Source: Florida DOH CHARTS

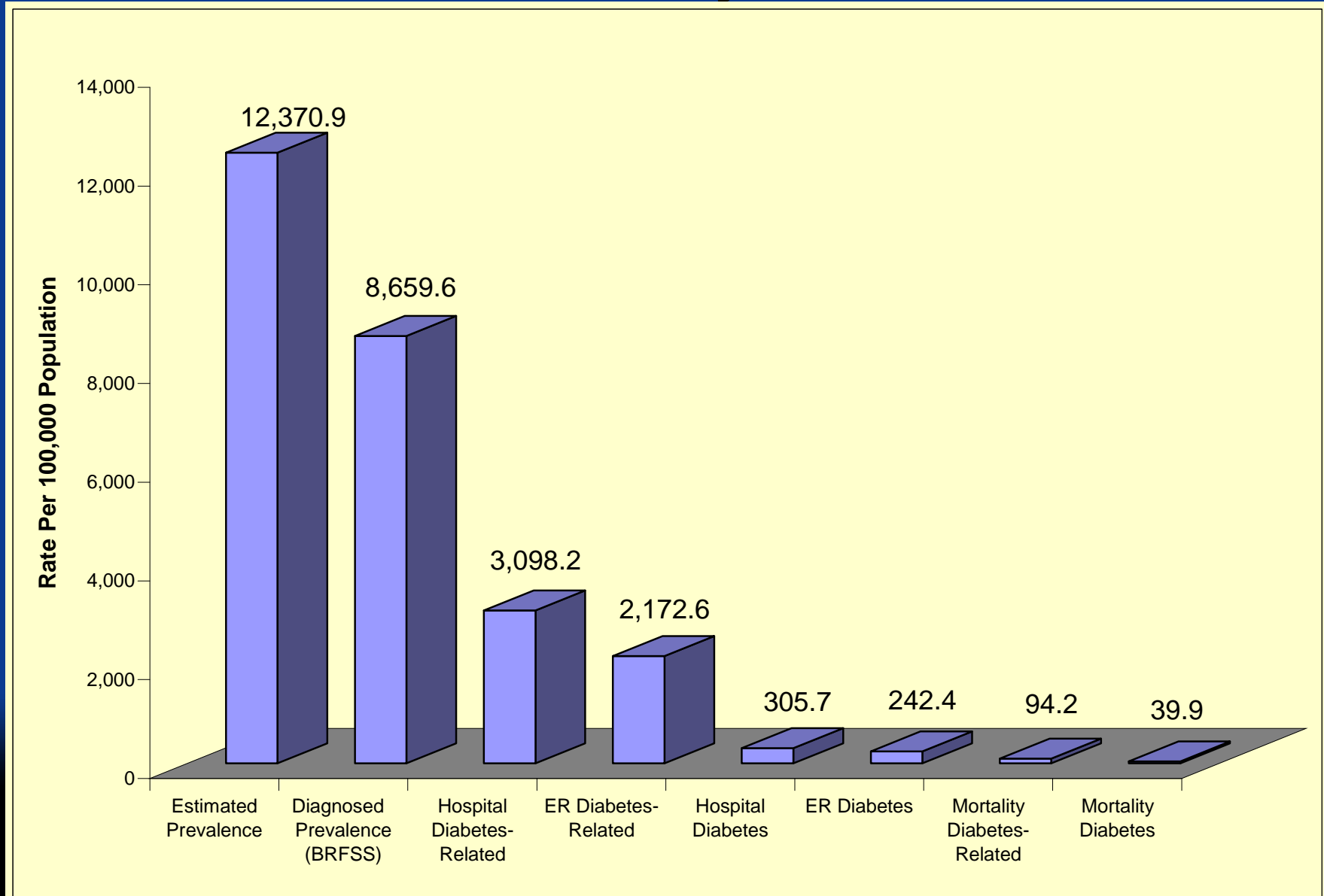
Diabetes Related Prevalence & Impact In Duval County – Jacksonville FL

- ❑ Hospitalization Cost – \$714,000,000
- ❑ Emergency Room Costs - \$57,000,000

Methods







- Secondary Data Analysis
 - Vital Statistics
 - Hospital Administrative data
 - BRFSS
- GIS Mapping
- Relative Risk and Prevalence Ratios
- Confidence Intervals

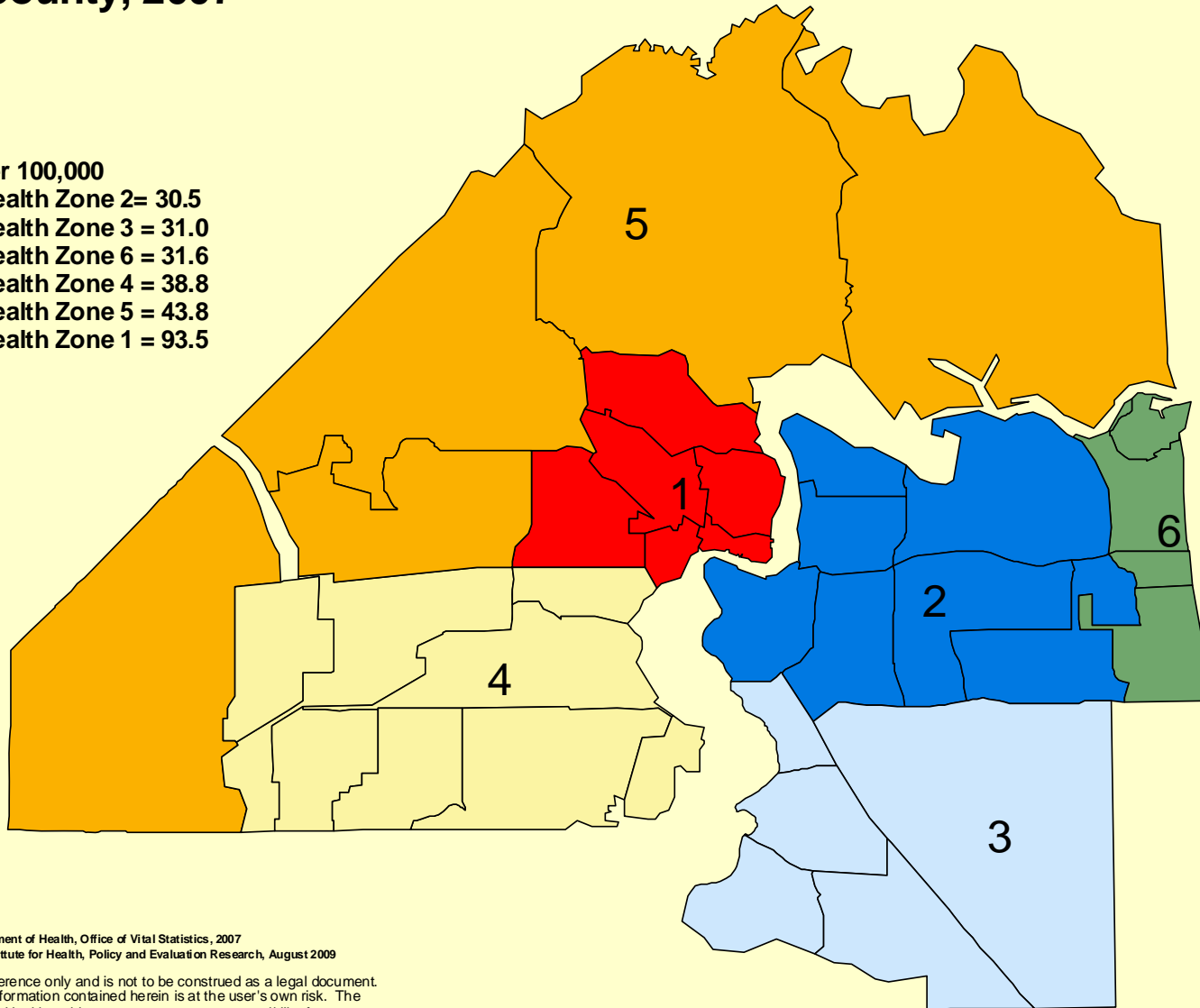
Rates for different Diabetes Measures Duval County 2007



Age-Adjusted Diabetes Mortality Rates for Adults by Health Zone Duval County, 2007

Rate per 100,000

-  Health Zone 2 = 30.5
-  Health Zone 3 = 31.0
-  Health Zone 6 = 31.6
-  Health Zone 4 = 38.8
-  Health Zone 5 = 43.8
-  Health Zone 1 = 93.5









Source: Florida Department of Health, Office of Vital Statistics, 2007
Prepared by: DCHD, Institute for Health, Policy and Evaluation Research, August 2009

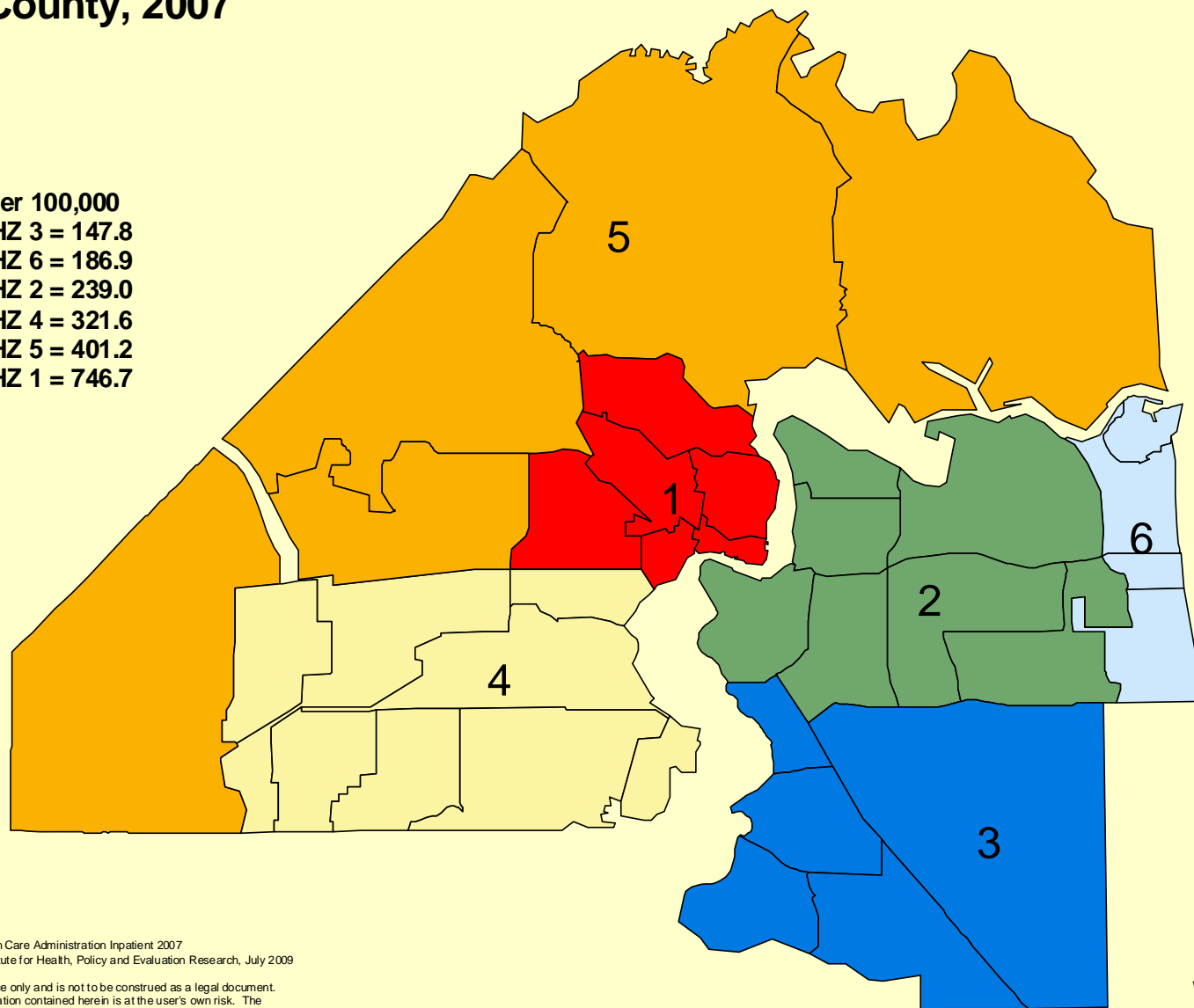
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Adult Diabetes Hospitalization Rates by Health Zone, Duval County, 2007

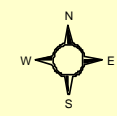
Rate per 100,000

	HZ 3 = 147.8
	HZ 6 = 186.9
	HZ 2 = 239.0
	HZ 4 = 321.6
	HZ 5 = 401.2
	HZ 1 = 746.7

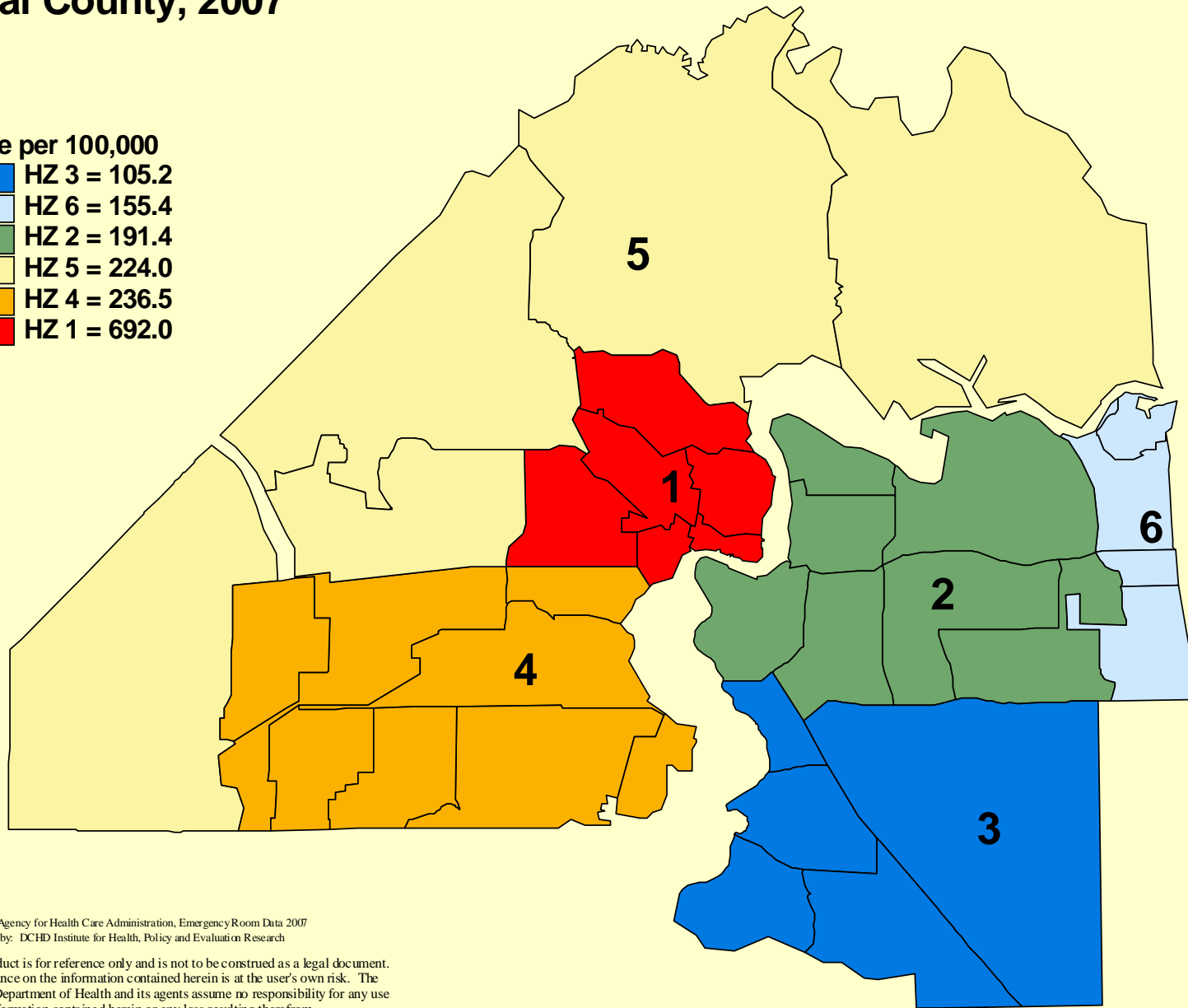
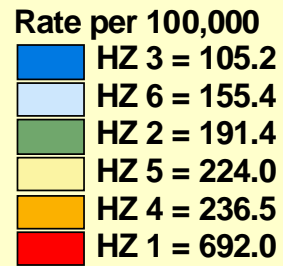


Source: Agency for Health Care Administration Inpatient 2007
Prepared by: DCHD, Institute for Health, Policy and Evaluation Research, July 2009

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Adult Diabetes Emergency Room Visit Rates by Health Zone, Duval County, 2007








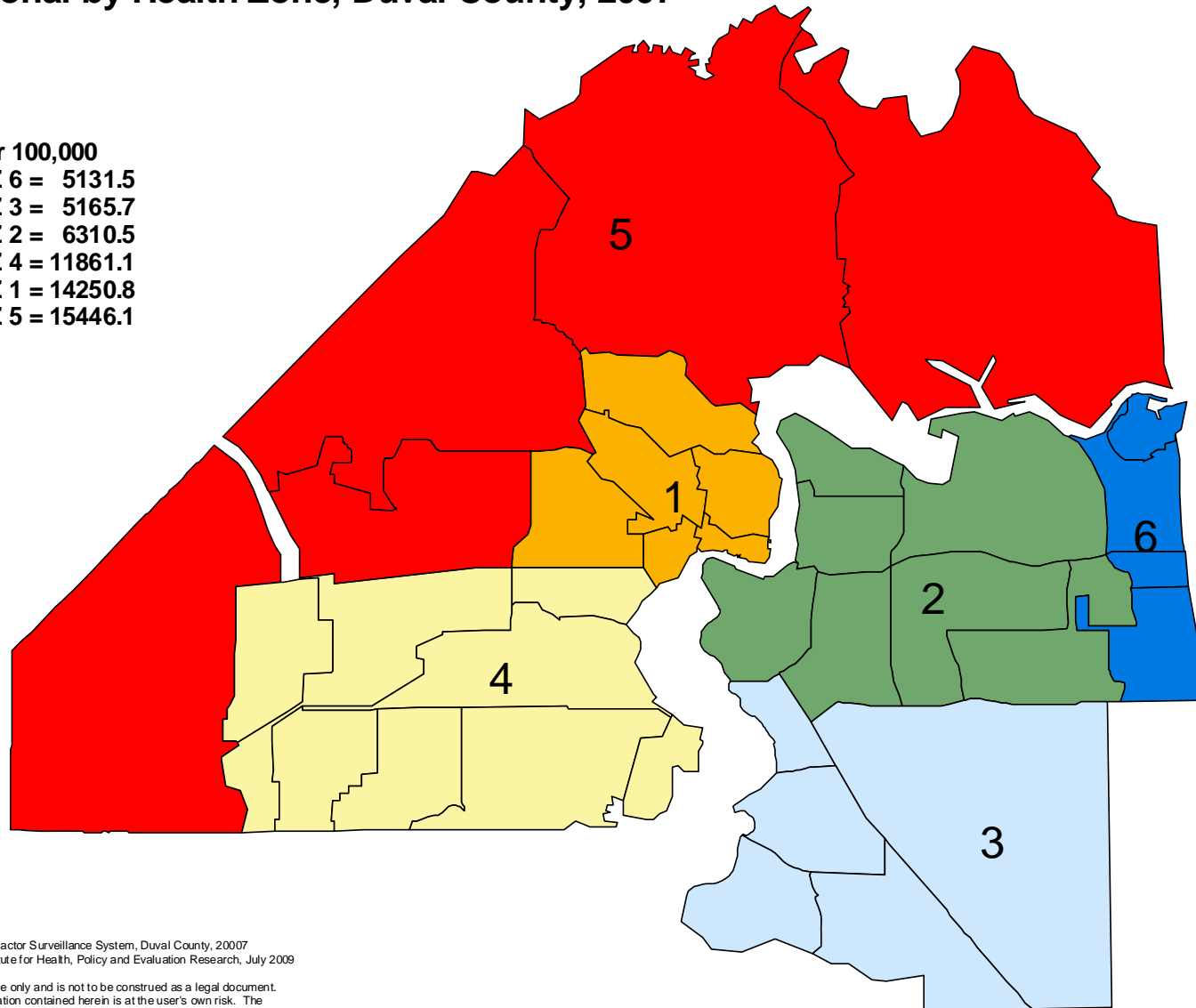
Source: Agency for Health Care Administration, Emergency Room Data 2007
Prepared by: DCHD Institute for Health, Policy and Evaluation Research

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Rate of Adults Diagnosed with Diabetes by a Health Professional by Health Zone, Duval County, 2007

Rate per 100,000

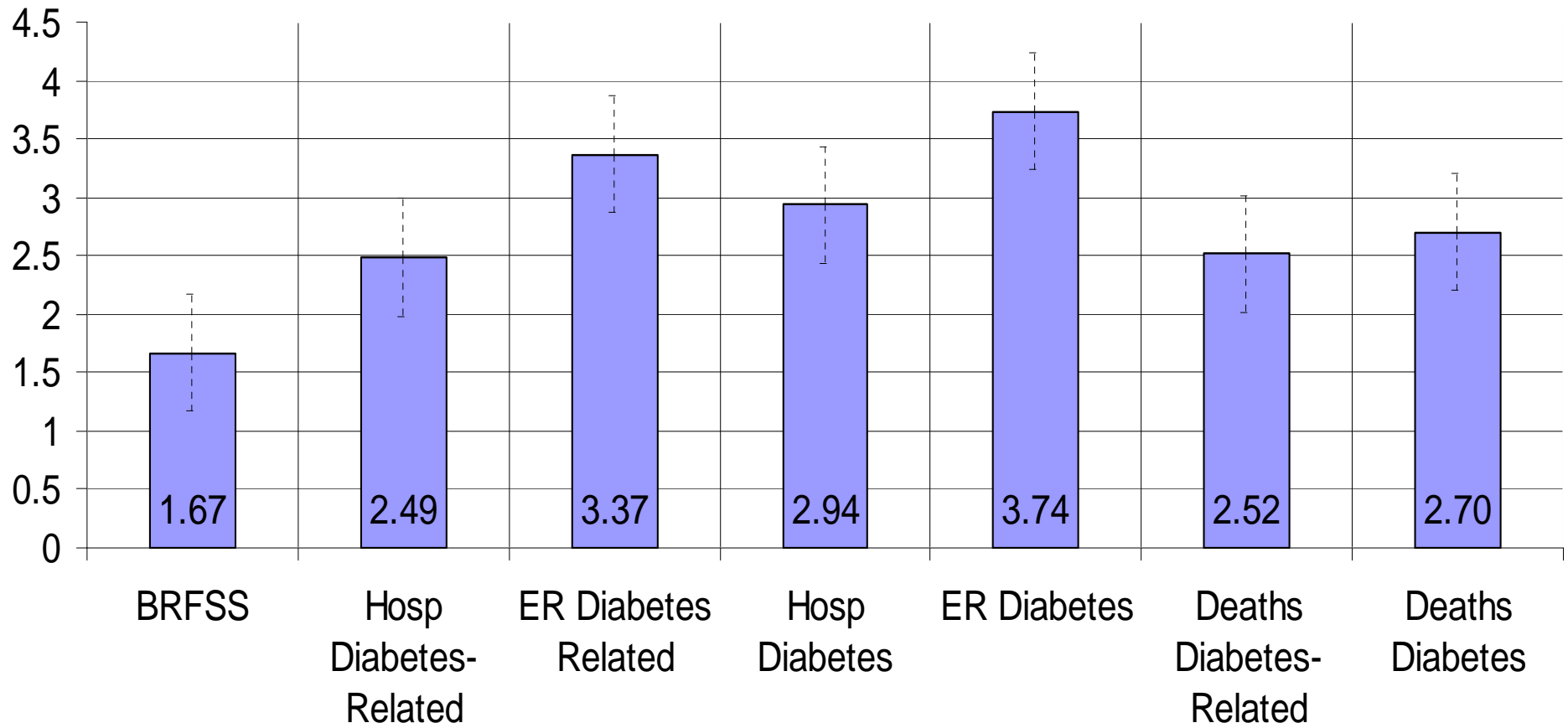
	HZ 6 = 5131.5
	HZ 3 = 5165.7
	HZ 2 = 6310.5
	HZ 4 = 11861.1
	HZ 1 = 14250.8
	HZ 5 = 15446.1



Source: Behavioral Risk Factor Surveillance System, Duval County, 2007
Prepared by: DCHD, Institute for Health, Policy and Evaluation Research, July 2009

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Ratio of Diabetes Morbidity and Mortality for HZ1 vs Other



Conclusions - Implications

- ❑ Need to more fully understand diabetes prevalence and impact at the local level
- ❑ Major disparities in diabetes risk and prevalence can be profound at the local level
- ❑ Lack of prevention and primary care within high risk minority populations appears to result in high costs to society and local community
- ❑ BRFSS may not be adequate tool for monitoring prevalence within high risk minority populations
- ❑ Policies that address the increasing epidemic of diabetes may be needed at all levels (local, state & national).

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Web pages:

Institute for Public Health Informatics & Research

www.dchd.net/services/hper/new/hper_home2.htm

UF Center for Health Equity & Quality Research

www.hscj.ufl.edu/cheqr/