

Community Health Needs Assessment June, 2016





Summit Agenda

Welcome	Jon Applebaum, CEO	8:00 a.m.
Health Department Initiatives	Caroline Jackson & Vicky Richardson	
Community Analysis	Lee Ann Lambdin, Stratasan	
Employee and Physician Surveys	Lee Ann	
Break		
Community Health Indicators	Lee Ann	
Exercise I - Prioritizing	All	
Break		
Exercise 2 - Brainstorming	All	
Report Out		
Summary	Jon Applebaum, CEO	
Adjourn		12:00 p.m.



Speaker Introduction

Jon Applebaum

CEO, Twin County Regional Healthcare

Vicky Richardson

Mount Rogers Health D

Mount Rogers Health District

Lee Ann Lambdin

SVP Healthcare Strategy, Stratasan



Demographics

Twin County Regional Hospital CHNA





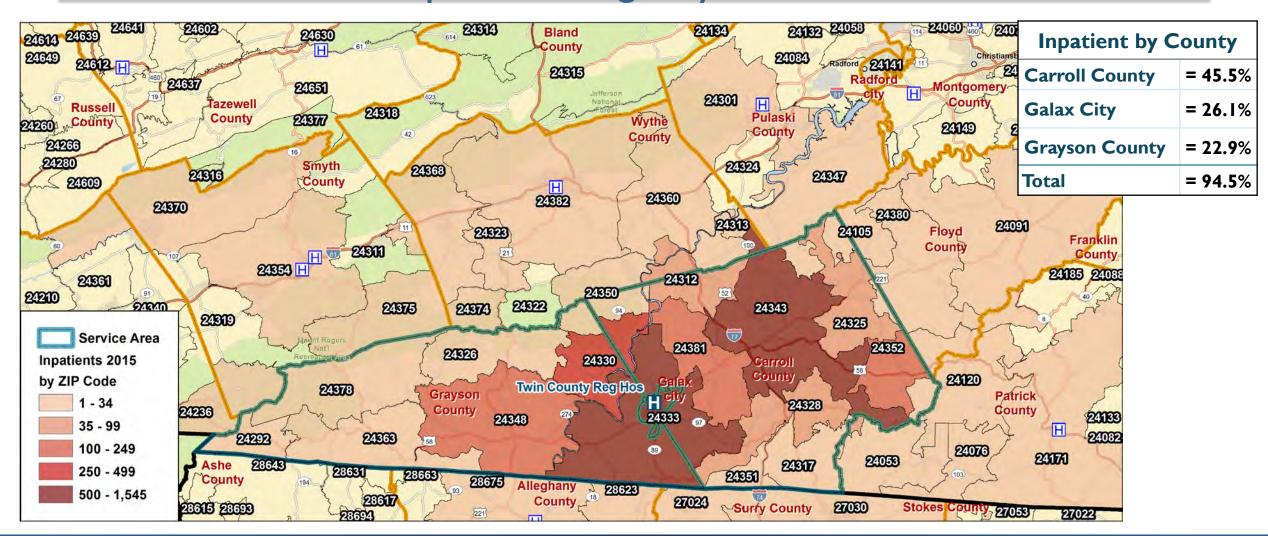
Twin County Regional Hospital CHNA Community Assessment Geography





TWIN COUNTY Regional Healthcare Duke LifePoint Healthcare

Twin County Regional Hospital Inpatient Origin by ZIP 2015





Demographic Summary

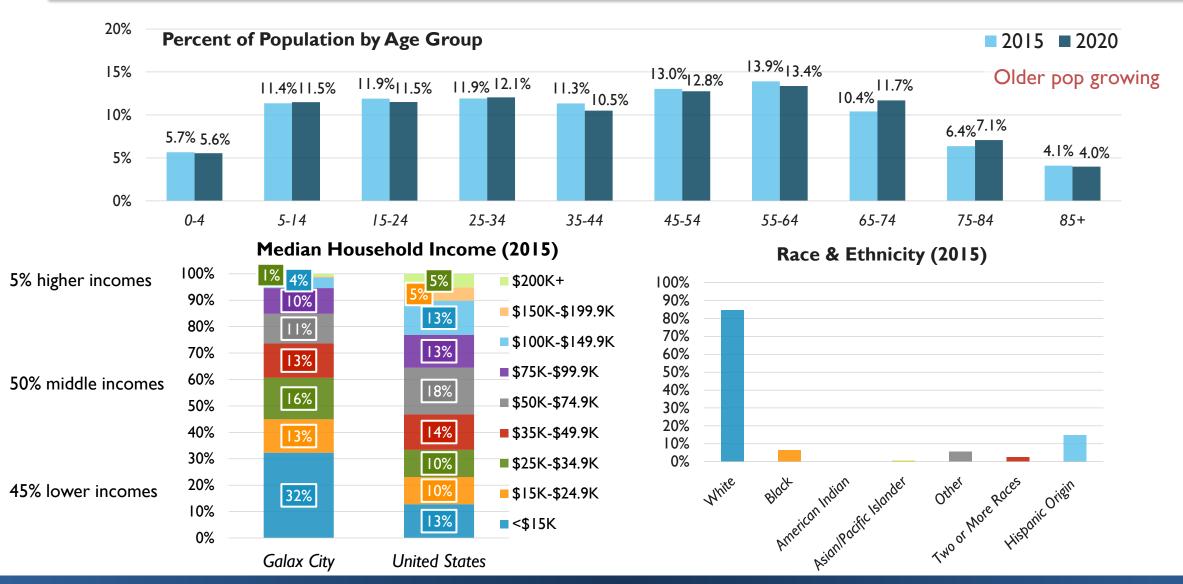
	Galax City	Carroll County	Grayson County	Virginia	USA
Population (2015)	7,072	30,121	15,331	8,340,501	318,536,439
Median Age (2015)	43.2	46.1	48.2	38.2	37.9
Median Household Income (2015)	\$27,544	\$34,024	\$29,533	\$62,786	\$53,217
Annual Pop. Growth (2015-20)	0.20%	0.07%	-0.18%	0.99%	0.75%
Household Population (2015)	2,932	12,949	6,838	3,192,525	120,746,349
Dominant Tapestry (2015)	Small Town Simplicity (12C)			Enterprising Professionals (2D)	Green Acres (6A)
Businesses (2015)	615	909	421	324,164	13,340,415
Employees (2015)	8,534	8,515	3,014	4,196,244	158,567,719
Medical Care Index* (2015)	59	72	67	121	100
Average Health Expenditures (2015)	\$1,235	\$1,519	\$1,400	\$2,532	\$2,098
Total Health Expenditures (2015)	\$3.6 M	\$19.7 M	\$9.6 M	\$8.1 B	\$253.3 E
Racial and Ethnic Make-up					
White	85%	96%	95%	71%	77%
Black	7%	1%	2%	20%	13%
American Indian	0%	0%	0%	1%	1%
Asian/Pacific Islander	1%	0%	0%	6%	6%
Mixed Race	6%	2%	2%	3%	3%
Other	3%	1%	1%		
Hispanic Origin	15%	4%	3%	9%	17%

*The Medical Care Index is householdbased, and represents the amount spent out of pocket for medical services relative to a national index of 100.



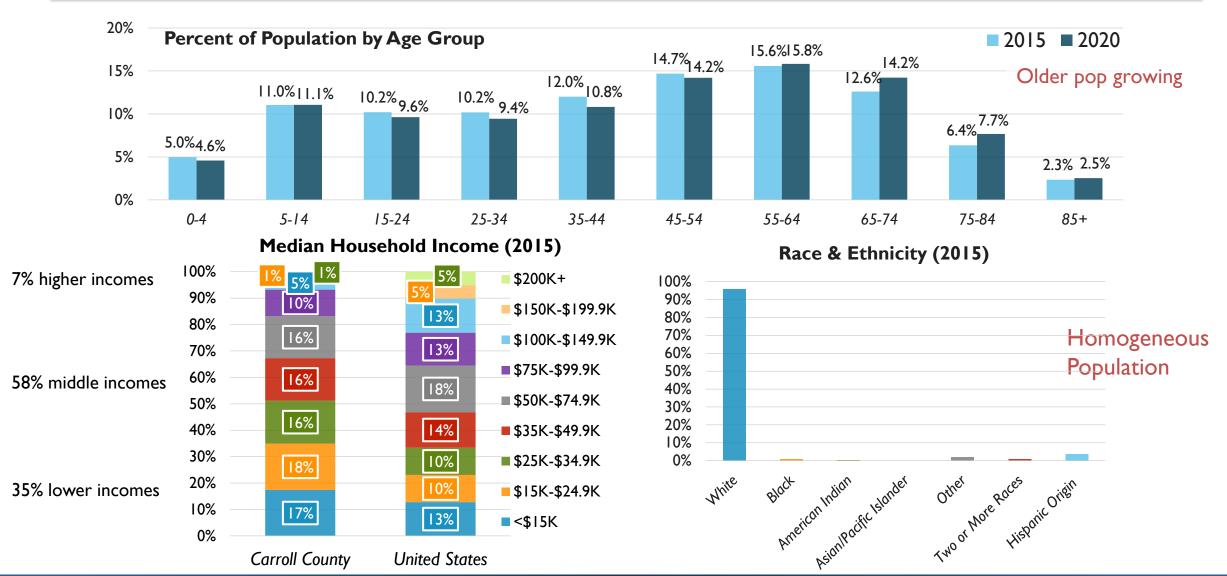
Galax City Demographics 2015





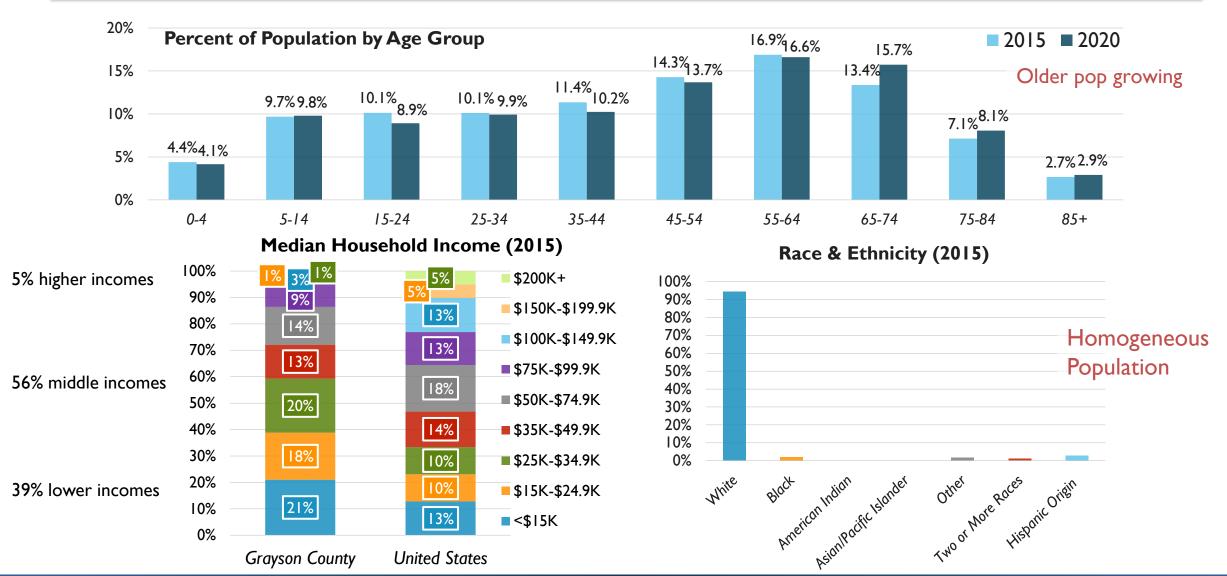
Carroll County Demographics 2015





Grayson County Demographics 2015



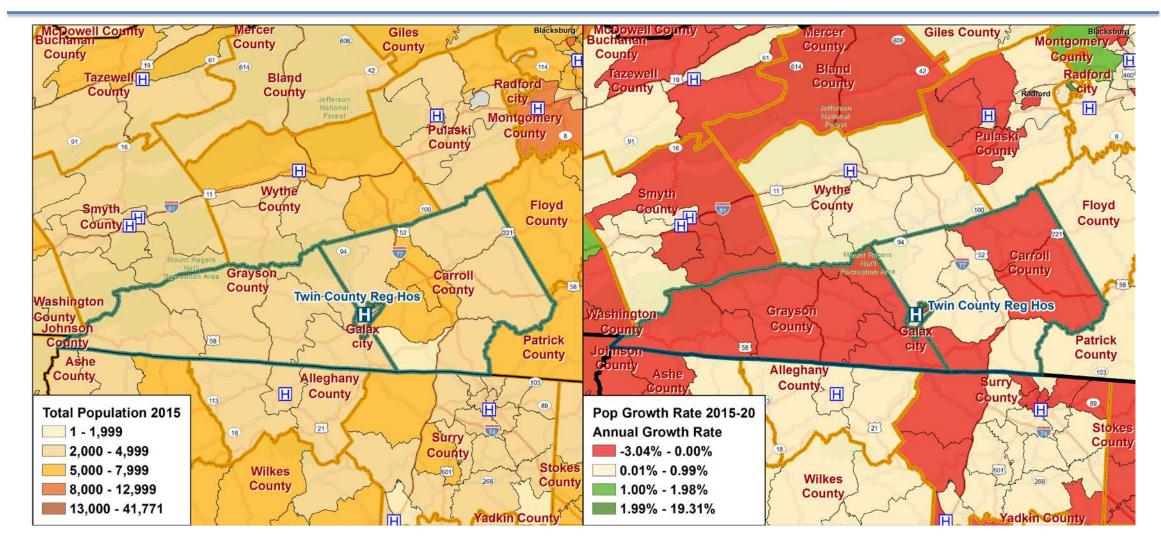




Population by Census Tract

Population Change





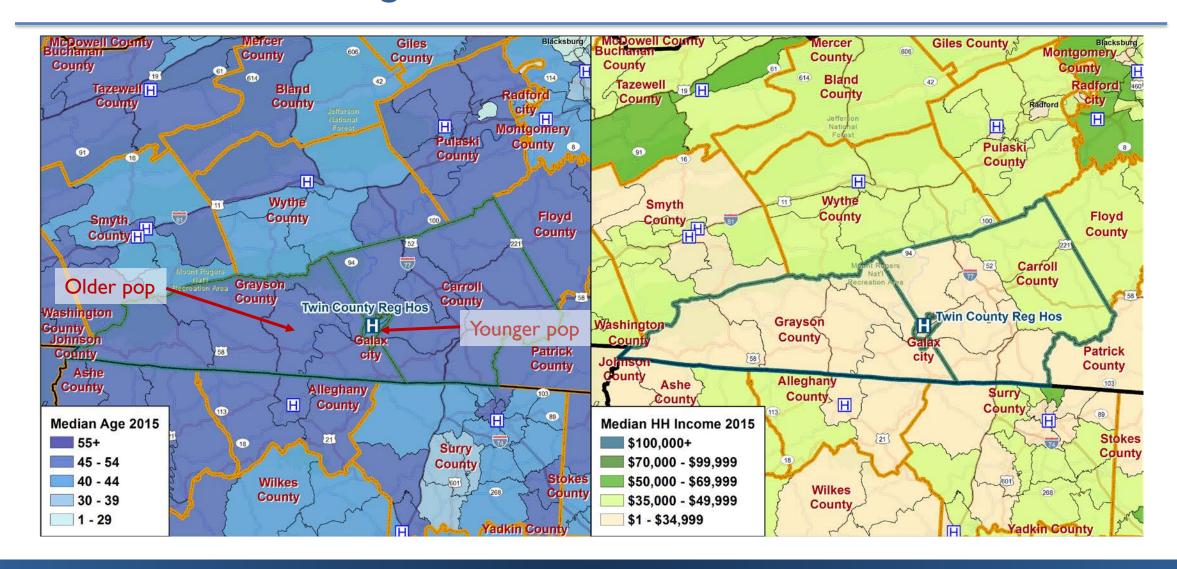




Median Age

Median Income



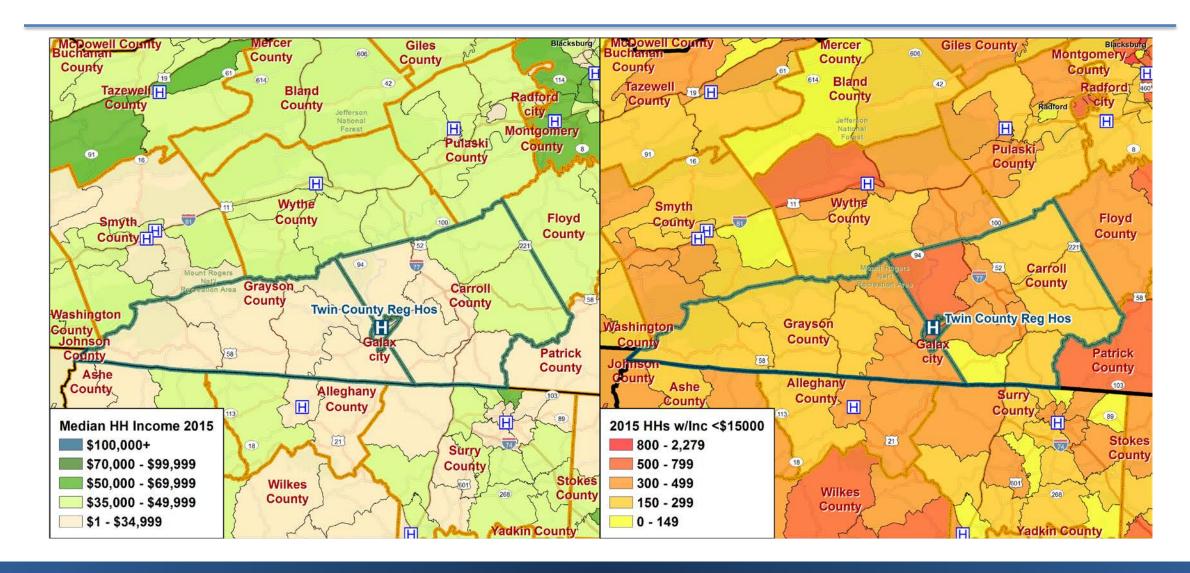




Median Income

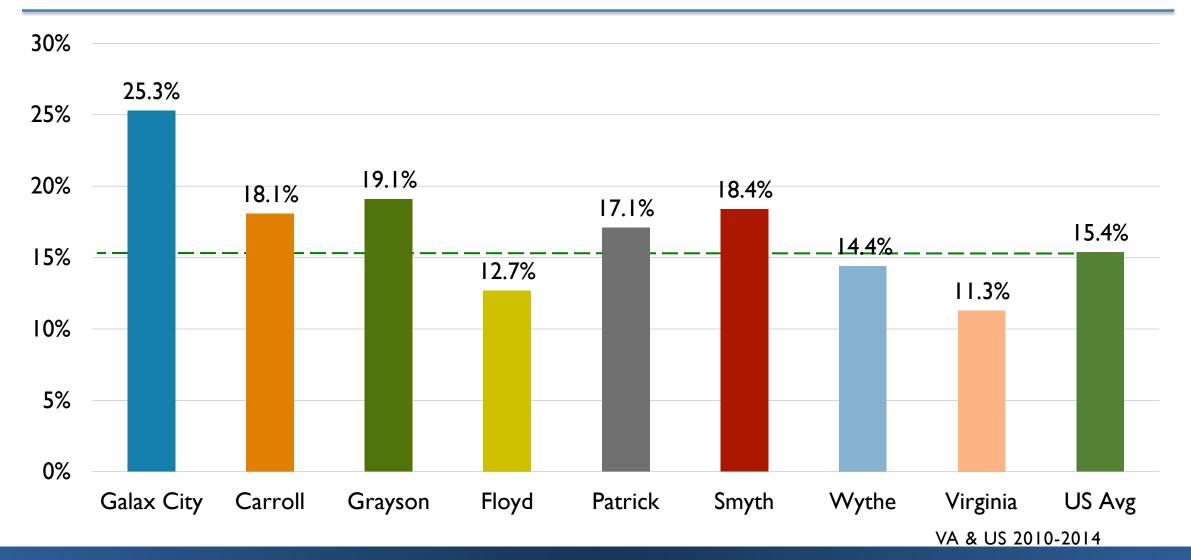
Median Income <\$15,000

Duke LifePoint Healthcare



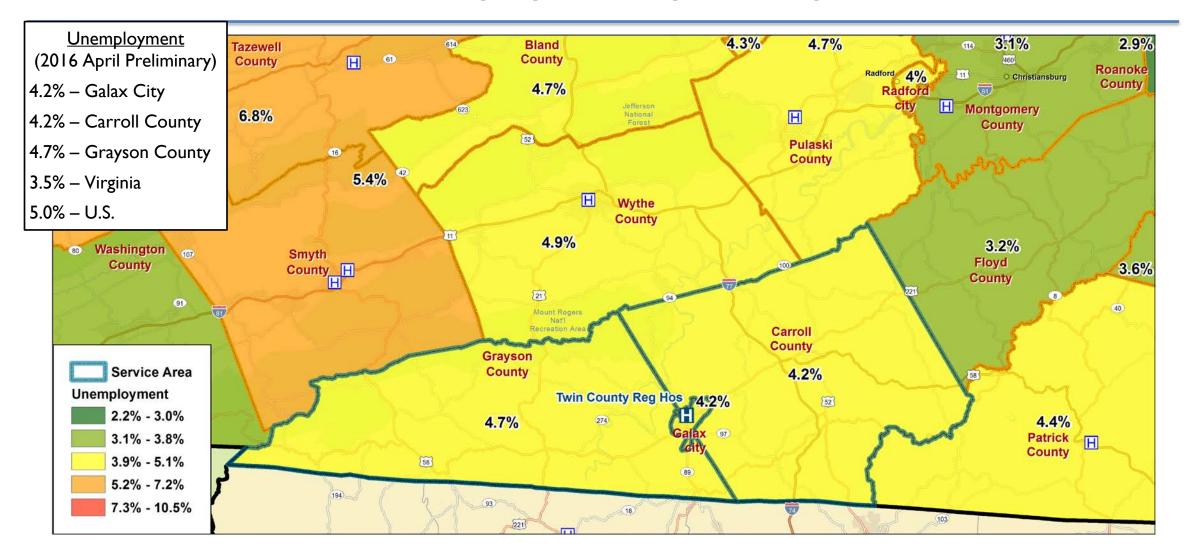


Poverty Levels 2009-2013 for Contiguous Counties, VA, and US





Unemployment by County





Business & Industry Environment

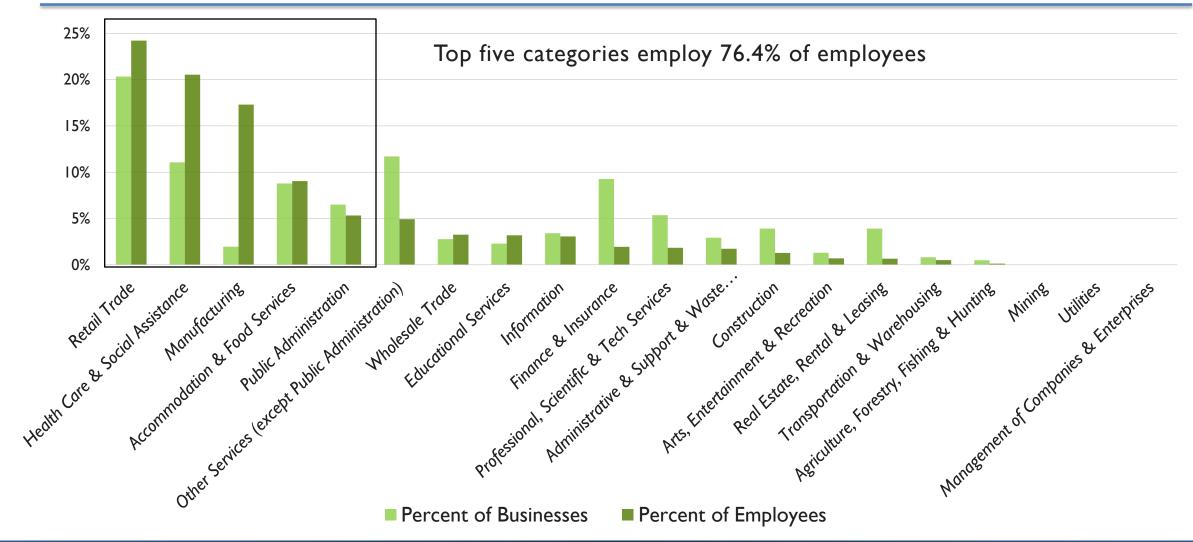
Twin County Regional Hospital CHNA



Galax City



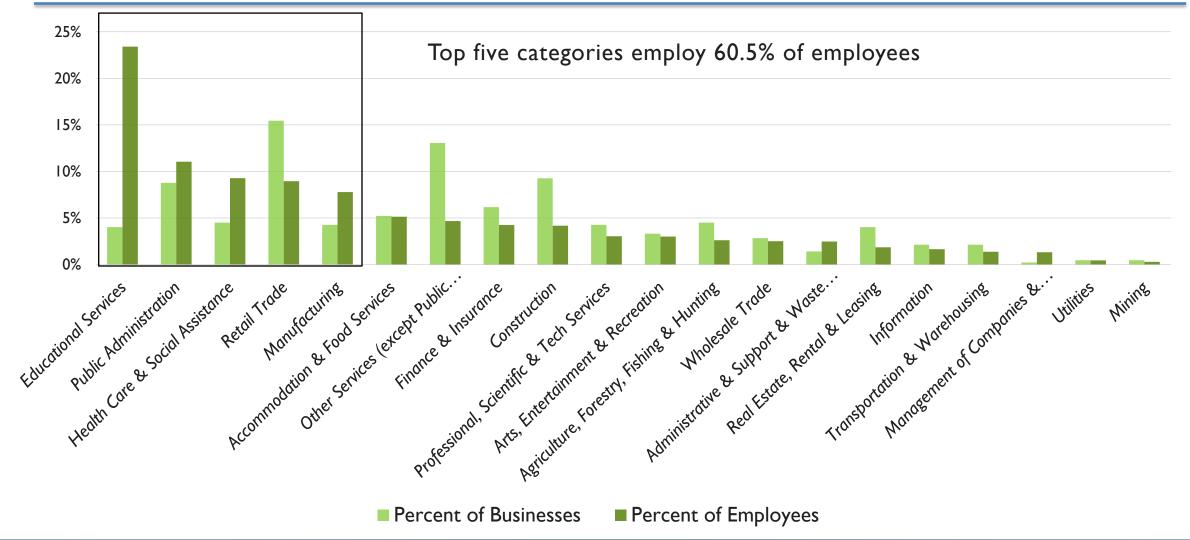
Business Environment 2015



Carroll County

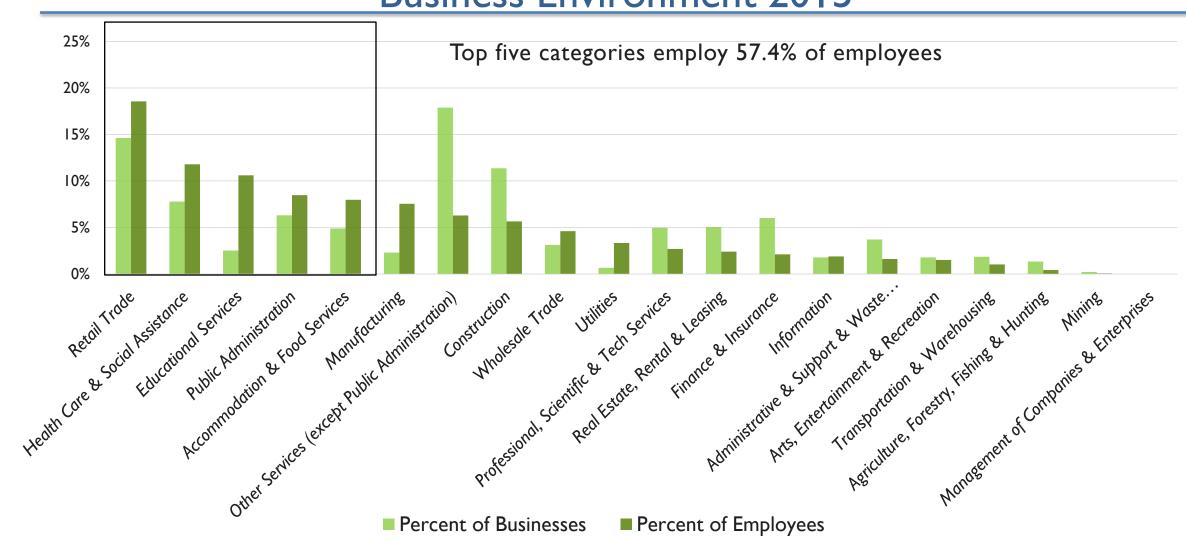


Business Environment 2015



Grayson County Business Environment 2015







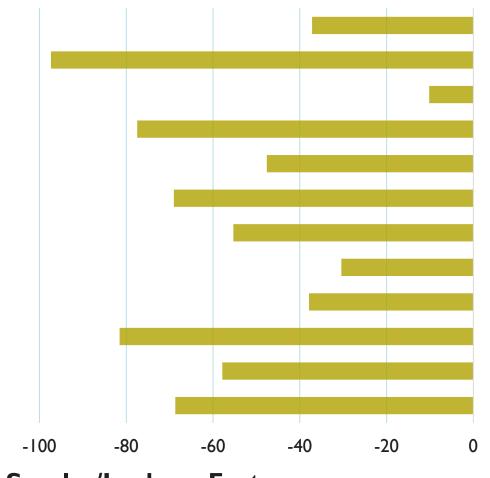
Galax City Retail Report

-120

Leakage: Demands for services/goods not being met within the service area (ex. Residents leave the service area for retail)

Surplus: Excess of services/goods being sold in the area (ex. The service area attracts shoppers from outside the service area)

Motor Vehicle & Parts Dealers Furniture & Home Furnishings Stores **Electronics & Appliance Stores** Bldg Materials, Garden Equip. & Supply Stores Food & Beverage Stores Health & Personal Care Stores Gasoline Stations Clothing & Clothing Accessories Stores Sporting Goods, Hobby, Book & Music Stores General Merchandise Stores Miscellaneous Store Retailers Food Services & Drinking Places



Surplus/Leakage Factor

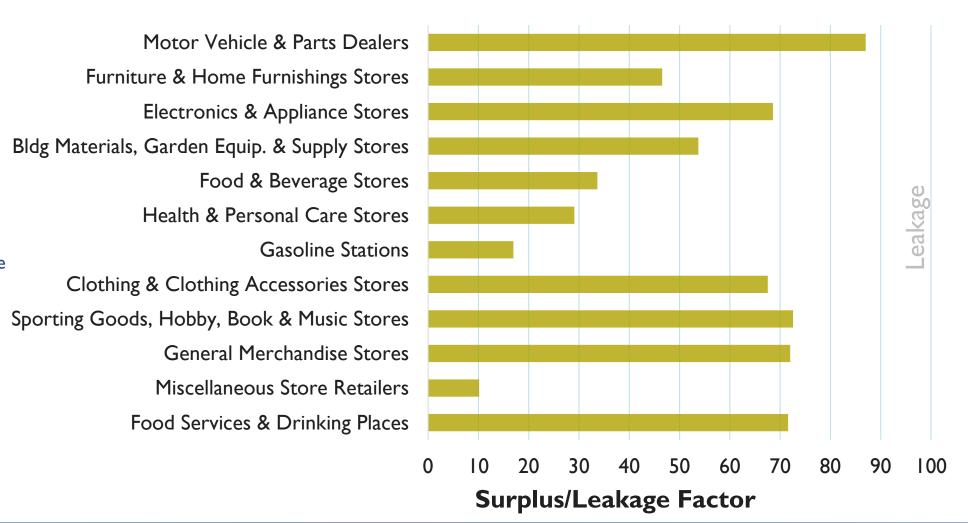




Carroll County Retail Report

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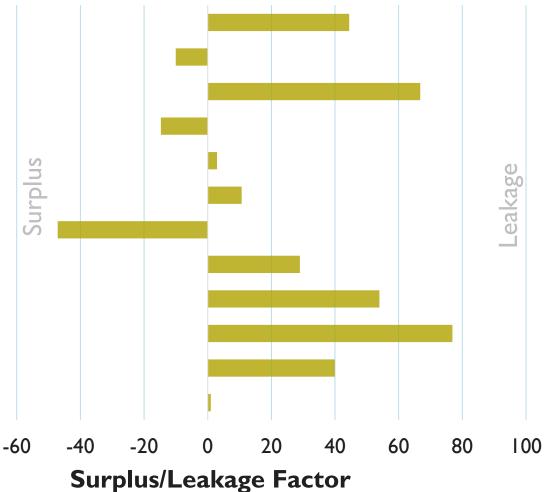


Grayson County Retail Report

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Major Employers List Galax City, Carroll County, & Grayson County



- Vaughan-Bassett Furniture Household Furnishings
- Twin County Regional Healthcare
- Albany Industries, Inc. Upholstered Household
- Consolidated Glass & Mirror Corporation
- Parkdale Mills/Magnolia Manufacturing
- Barker MicroFarads Electronic components
- Core Health & Fitness, LLC Fitness Equipment
- DLB
- Hansen Turbine Aircraft and turbine parts
- Mohawk ESV Incorporated Carpet Backing
- Vanguard Furniture Upholstered furniture
- Darco Southern, Inc. Gaskets

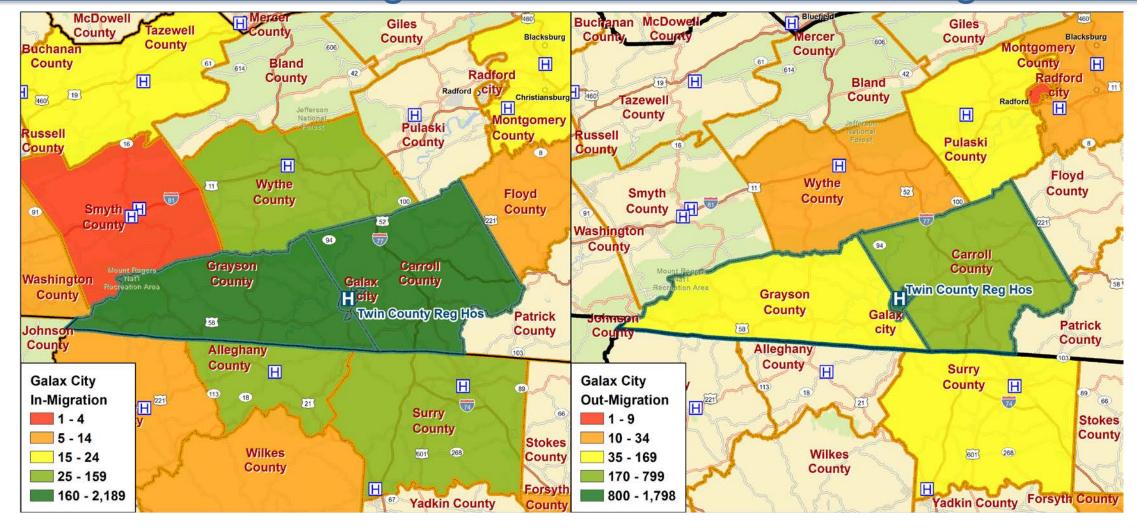


Galax City Commuter In-migration

Galax City



Commuter Out-migration

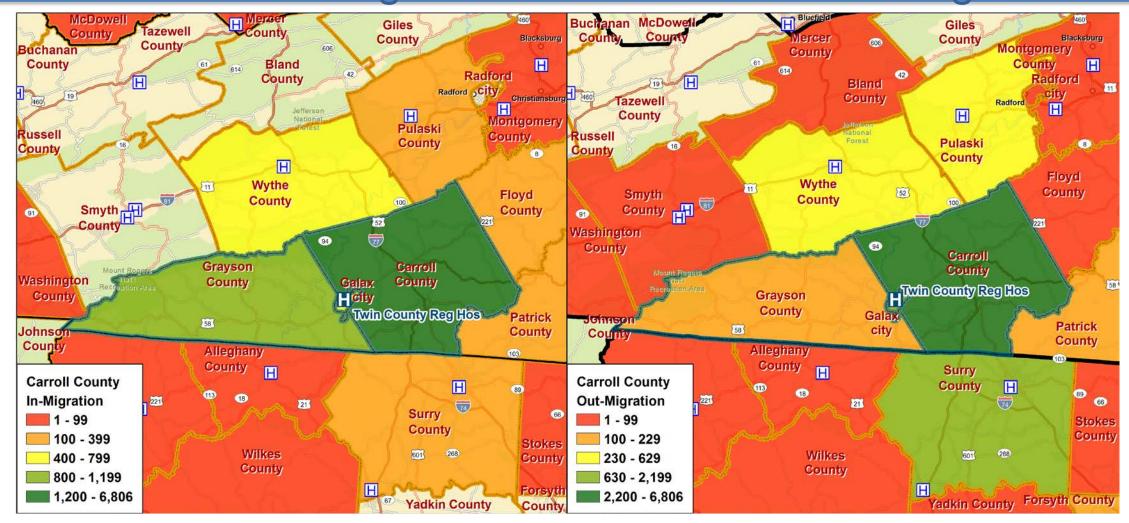




Carroll County Commuter In-migration

Carroll County Commuter Out-migration

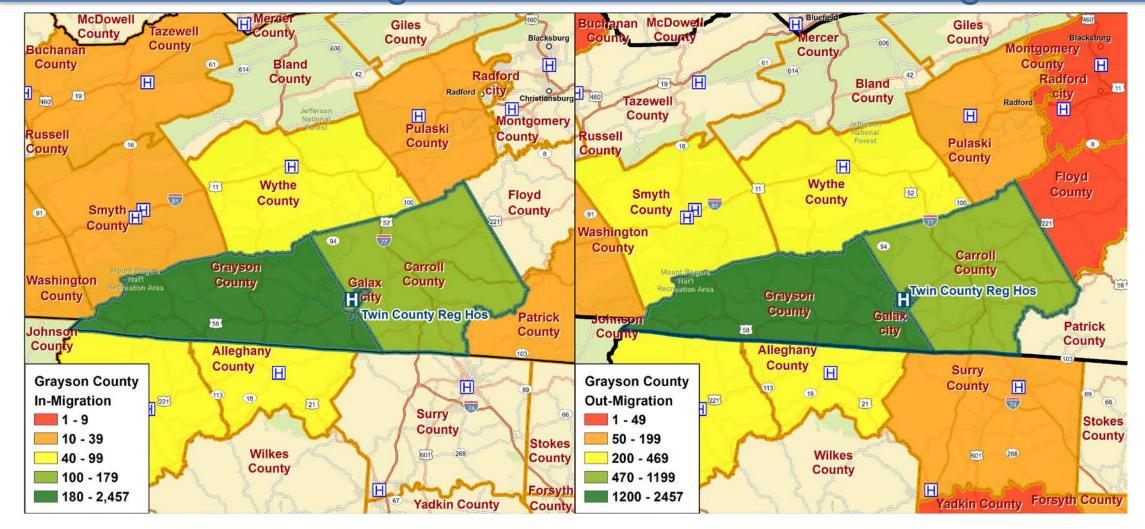






Grayson County Commuter In-migration









Psychographics

Twin County Regional Hospital CHNA





Tapestry Profile

Tapestry Profile -

Neighborhood classification based on purchasing and lifestyle behaviors

14 LifeModes67 Tapestry Segments

LifeMode Group

Tapestry,
Segmentation,
Number,
and Name

L2 Upscale Avenues

- 2A) Urban Chic
- 2B) Pleasantville 2C) Pacific Heights
- 2D) Enterprising Individuals

Estates Top Tier

LI Affluent

- IA) Top Tier
- IB) Professional Pride
- IC) Boomburbs
- ID) Savvy Suburbanites
- IE) Exurbanites

L2 Upscale Avenues

- 2A) Urban Chic
- 2B) Pleasantville 2C) Pacific
- Heights 2D) Enterprising
- Individuals

L3 Uptown Individuals

- 3A) Laptops & Lattes
- 3B) Metro Renters
- 3C) Trendsetters

L4 Family Landscapes

- 4A) Soccer Moms
- 4B) Home Improvement
- 4C) Middleburg

L5 Gen X Urban

- 5A) Comfortable Empty Nesters
- 5B) In Style
- 5C) Parks & Rec 5D) Rustbelt Tradition
- 5E) Midlife Constants

L6 Cozy Country Living

- 6A) Green Acres
- 6B) Salt of the Earth
- 6C) The Great Outdoors
- 6D) Prairie Living
- 6E) Rural Resort Dwellers
- 6F) Heartland
 Communities

L7 Ethnic Enclaves

- 7A) Up & Coming Families
- 7B) Urban Villages
- 7C) American Dreamers
- 7D) Barrios Urbanos
- 7E) Valley Growers
- 7F) Southwestern Families

L14 Scholars &

Patriots

L8 Middle Ground

- 8A) City Lights
- 8B) Emerald City
- 8C) Bright Young Professionals
- 8D) Downtown Melting Pot
- 8E) Front Porches
- 8F) Old & Newcomers
- 8G) Hardscrabble Road

L9 Senior Styles

- 9A) Silver & Gold
- 9B) Golden Years9C) The Elders
- 9D) Senior Escapes
- 9E) Retirement Communities
- 9F) Social Security Set

L10 Rustic Outposts

- 10A) Southern Satellites
- 10B) Rooted Rural
- 10C) Diners & Miners
- 10D) Down the Road
- 10E) Rural Bypasses

LII Midtown Singles

- IIA) City Strivers
- IIB) Young & Restless
- IIC) Metro Fusion
- IID) Set to Impress
- IIE) City Commons

L12 Hometown

- 12A) Family
 Foundations
- 12B) Traditional Living
- 12C) Small Town
 Simplicity
- 12D) Modest Income Homes

LI3 Next Wave

- I3A) International Marketplace
- 13B) Las Casas13C) NeWest
- Residents
- 13D) Fresh Ambitions 13E) High Rise

Renters

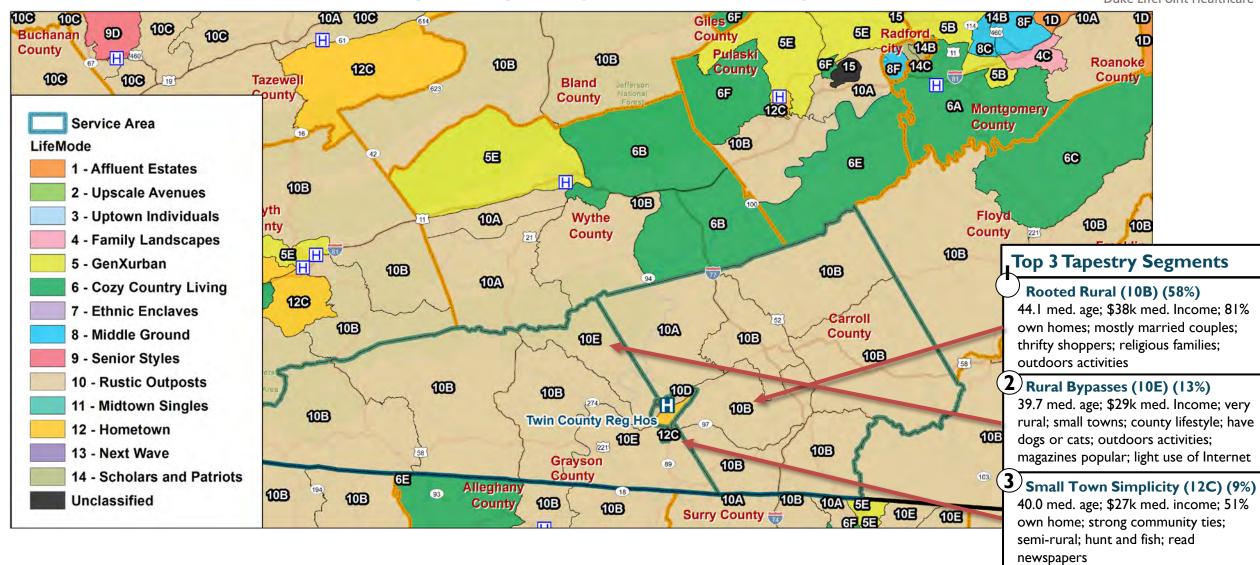
- 14A) Military
 Proximity
 14B) College
- Towns 14C) Dorms to Diplomas



Dominant Tapestry Segmentation by Census Tract



Duke LifePoint Healthcare



WHAT Report: Galax City, Carroll Co, Grayson Co Health and Behavior Habits

TWIN COUNTY Regional Healthcare
Duke LifePoint Healthcare

Health Habits of Your Community	More-Likely	Behavior Habits of Your Community	More-Likely
Used prescr drug for diabetes (insulin dependent)	350	Shopped at grocery store/6 mo: Piggly Wiggly	1257
Used denture cleaner in last 6 months	326	Radio format listen to: gospel	1082
Filled prescription last 12 mo: discnt/dept store	309	Shopped at grocery store/6 mo: IGA	856
Used prescr drug for arthritis/osteoarthritis	307	Shopped at grocery store/6 mo: Save-A-Lot	658
Spent on eyeglasses in last 12 mo: <\$100	305	Fast food/drive-in last 6 mo: Hardee`s	617
Smoked non-menthol cigarettes in last 12 months	274	Watched last week: Outdoor Channel	568
Method used to stop smoking/12 mo: Cold Turkey	273	HH owns ATV/UTV	536
Smoked 9+ packs of cigarettes in last 7 days	261	HH has satellite dish: Dish Network	513
Used hair growth product in last 6 months	251	Fast food/drive-in last 6 mo: Captain D`s	479
Used prescr drug for rheumatoid arthritis	251	Bought motor oil last 12 mo: at Walmart	478
Used denture adhesive/fixative in last 6 months	241	Connection to Internet at home: dial-up modem	473
Visited nurse practitioner in last 12 months	241	Watch on TV: bull riding (pro)	467
Used prescription drug for migraine headache	231	Watch on TV: rodeo	446

Note: United States Index is 100



WHAT Report: Galax City, Carroll Co, Grayson Co Communication and Technology Habits

TWIN COUNTY Regional Healthcare
Duke LifePoint Healthcare

Communication Habits of Your Community	More-Likely
Radio format listen to: gospel	1082
Watched last week: Outdoor Channel	568
HH has satellite dish: Dish Network	513
HH has satellite dish	430
Watched last week: CMT (Country Music Television)	389
HH has satellite dish: DirecTV	372
Listened to/purch last 6 mo: gospel music	338
Radio format listen to: country	324
Watched last week: SOAPnet	308
Watched last week:TV Land	306
Watched last week: GSN (Game Show Network)	265
Watched last week: Hallmark Channel	255
Watched last week: QVC	246

Technology Habits of Your Community	More-Likely
Connection to Internet at home: dial-up modem	473
Brand of computer HH owns: Compaq	176
Own Kodak camera	170
Purch most recent hm computer at dept/discount str	166
Most recent HHTV purch: regular screen (13-26 in)	163
HH purchased DVD/Blu-ray player in last 12 months	150
Bought film in last 12 months	147
HH owns regular screen TV (13-26 in)	145
Most recent HHTV purch: large screen (27-35 in)	144
Connection to Internet at home: DSL	138
Printed digital photos in last 12 months	135
Spent on cameras in last 12 months: \$1-99	132
HH purchased 5+ video games in last 12 months	127

Note: United States Index is 100



Galax City Medical Expenditures Index



Health Care	58
Medical Care	59
Physician Services	54
Dental Services	51
Eyecare Services	59
Lab Tests, X-Rays	63
Hospital Room and Hospital Services	64
Convalescent or Nursing Home Care	74
Other Medical services	52
Nonprescription Drugs	62
Prescription Drugs	63
Nonprescription Vitamins	57
Medicare Prescription Drug Premium	71
Eyeglasses and Contact Lenses	56
Hearing Aids	58
Medical Equipment for General Use	60
Other Medical Supplies	56
Health Insurance	58
Blue Cross/Blue Shield	57
Commercial Health Insurance	52
Health Maintenance Organization	52
Medicare Payments	68
Long Term Care Insurance	51
Other Health Insurance	67

	Amount Spent		
	A verage	Total	
Health Care	\$2,763	\$8.1 M	
Medical Care	\$1,235	\$3.6 M	
Physician Services	\$143	\$0.4 M	
Dental Services	\$198	\$0.6 M	
Eyecare Services	\$33	\$0.1 M	
Lab Tests, X-Rays	\$42	\$0.1 M	
Hospital Room and Hospital Services	\$130	\$0.4 M	
Convalescent or Nursing Home Care	\$23	\$0.1 M	
Other Medical services	\$60	\$0.2 M	
Nonprescription Drugs	\$81	\$0.2 M	
Prescription Drugs	\$316	\$0.9 M	
Nonprescription Vitamins	\$40	\$0.1 M	
Medicare Prescription Drug Premium	\$62	\$0.2 M	
Eyeglasses and Contact Lenses	\$51	\$0.1 M	
Hearing Aids	\$16	\$0.0 M	
Medical Equipment for General Use	\$4	\$0.0 M	
Other Medical Supplies	\$36	\$0.1 M	
Health Insurance	\$1,528	\$4.5 M	
Blue Cross/Blue Shield	\$484	\$1.4 M	
Commercial Health Insurance	\$258	\$0.8 M	
Health Maintenance Organization	\$231	\$0.7 M	
Medicare Payments	\$356	\$1.0 M	
Long Term Care Insurance	\$52	\$0.2 M	
Other Health Insurance	\$148	\$0.4 M	

Carroll County Medical Expenditures Index



				Amount	Spent
Health Care		71		A verage	Total
Medical Care		72	Health Care	\$3,370	\$43.6 M
Physician Services	61				
Dental Services	59		Medical Care	\$1,519	\$19.7 M
Eyecare Services		74	Physician Services	\$161	\$2.1 M
Lab Tests, X-Rays		82	Dental Services	\$228	\$3.0 M
Hospital Room and Hospital Services		84	Eyecare Services	\$41	\$0.5 M
Convalescent or Nursing Home Care		79	Lab Tests, X-Rays	\$55	\$0.7 M
Other Medical services	60	• •	Hospital Room and Hospital Services	\$170	\$2.2 M
Nonprescription Drugs	00	80	Convalescent or Nursing Home Care	\$25	\$0.3 M
		81	Other Medical services	\$70	\$0.9 M
Prescription Drugs			Nonprescription Drugs	\$103	\$1.3 M
Nonprescription Vitamins		77	Prescription Drugs	\$405	\$5.2 M
Medicare Prescription Drug Premium		92	Nonprescription Vitamins	\$54	\$0.7 M
Eyeglasses and Contact Lenses	67	7	Medicare Prescription Drug Premium	\$81	\$1.0 M
Hearing Aids		72	Eyeglasses and Contact Lenses	\$60	\$0.8 M
Medical Equipment for General Use	67	7	Hearing Aids	\$19	\$0.3 M
Other Medical Supplies	66		Medical Equipment for General Use	\$4	\$0.1 M
Health Insurance		70	Other Medical Supplies	\$43	\$0.6 M
Blue Cross/Blue Shield		69			
		67	Health Insurance	\$1,851	\$24.0 M
Commercial Health Insurance	57		Blue Cross/Blue Shield	\$594	\$7.7 M
Health Maintenance Organization	59		Commercial Health Insurance	\$282	\$3.7 M
Medicare Payments		88	Health Maintenance Organization	\$265	\$3.4 M
Long Term Care Insurance	60		Medicare Payments	\$462	\$6.0 M
Other Health Insurance		84	Long Term Care Insurance	\$60	\$0.8 M
			Other Health Insurance	\$187	\$2.4 M

Grayson County Medical Expenditures Index



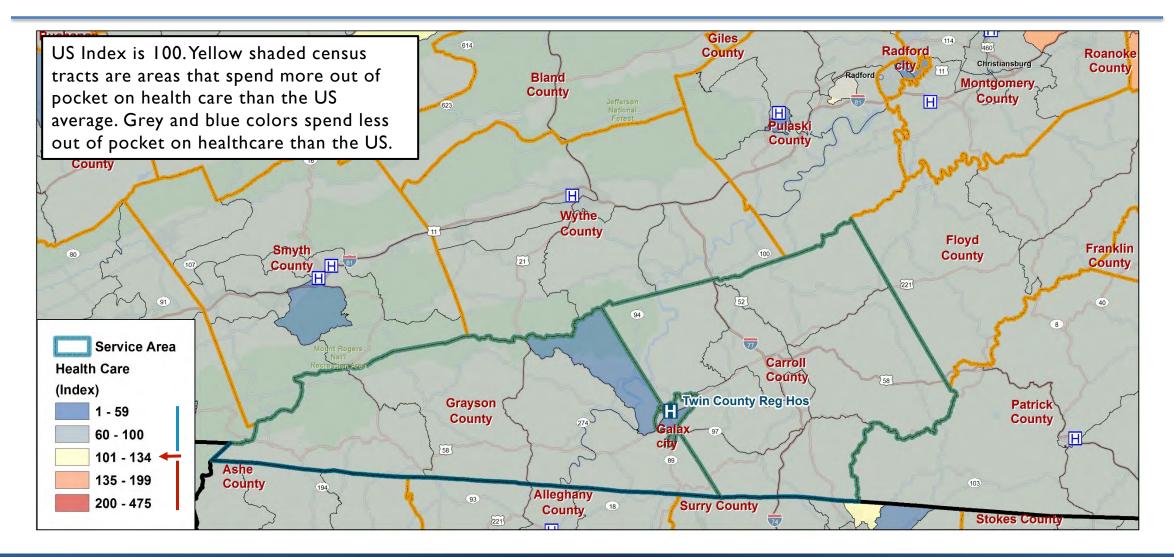
Amount Spent

	45	
Health Care	65	
Medical Care	67	
Physician Services	56	
Dental Services	54	
Eyecare Services	68	
Lab Tests, X-Rays	75	
Hospital Room and Hospital Services	77	
Convalescent or Nursing Home Care	74	
Other Medical services	56	
Nonprescription Drugs	74	
Prescription Drugs	75	
Nonprescription Vitamins	71	
Medicare Prescription Drug Premium	85	
Eyeglasses and Contact Lenses	62	
Hearing Aids	67	
Medical Equipment for General Use	62	
Other Medical Supplies	61	
Health Insurance	64	
Blue Cross/Blue Shield	64	
Commercial Health Insurance	52	
Health Maintenance Organization	55	
Medicare Payments	82	
Long Term Care Insurance	56	
Other Health Insurance	78	
	. •	

_	Amount Spent	
	Average	Total
Health Care	\$3,105	\$21.2 M
Medical Care	\$1,400	\$9.6 M
Physician Services	\$149	\$1.0 M
Dental Services	\$211	\$1.4 M
Eyecare Services	\$38	\$0.3 M
Lab Tests, X-Rays	\$50	\$0.3 M
Hospital Room and Hospital Services	\$156	\$1.1 M
Convalescent or Nursing Home Care	\$23	\$0.2 M
Other Medical services	\$64	\$0.4 M
Nonprescription Drugs	\$95	\$0.7 M
Prescription Drugs	\$372	\$2.5 M
Nonprescription Vitamins	\$50	\$0.3 M
Medicare Prescription Drug Premium	\$75	\$0.5 M
Eyeglasses and Contact Lenses	\$56	\$0.4 M
Hearing Aids	\$18	\$0.1 M
Medical Equipment for General Use	\$4	\$0.0 M
Other Medical Supplies	\$40	\$0.3 M
Health Insurance	\$1,705	\$11.7 M
Blue Cross/Blue Shield	\$544	\$3.7 M
Commercial Health Insurance	\$261	\$1.8 M
Health Maintenance Organization	\$245	\$1.7 M
Medicare Payments	\$427	\$2.9 M
Long Term Care Insurance	\$56	\$0.4 M
Other Health Insurance	\$172	\$1.2 M



Consumer Spending on Health Care





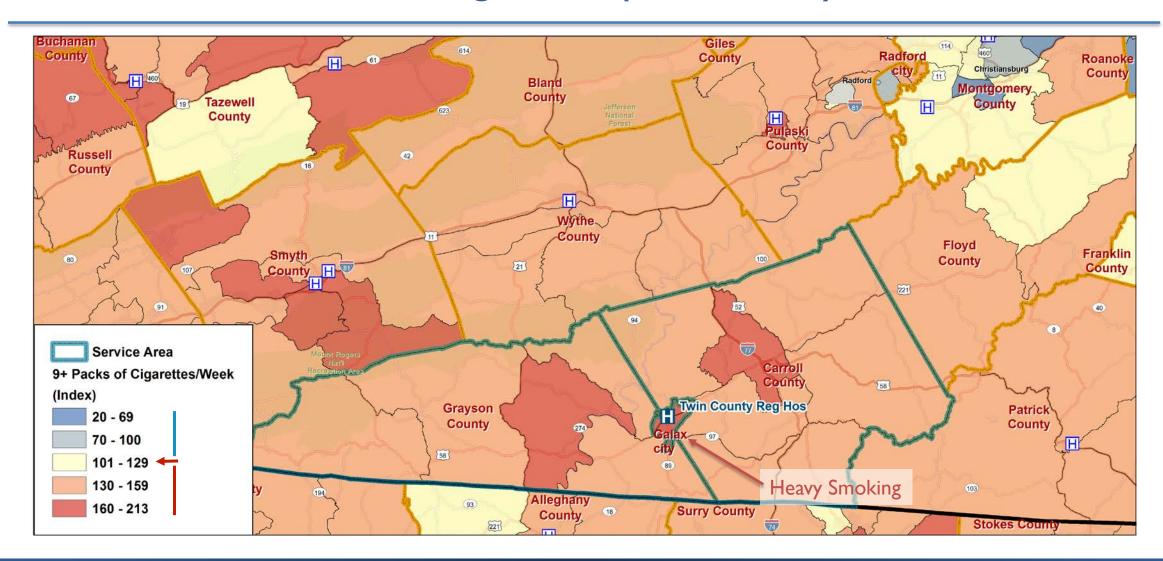
Environment and Health Data

Twin County Regional Hospital CHNA



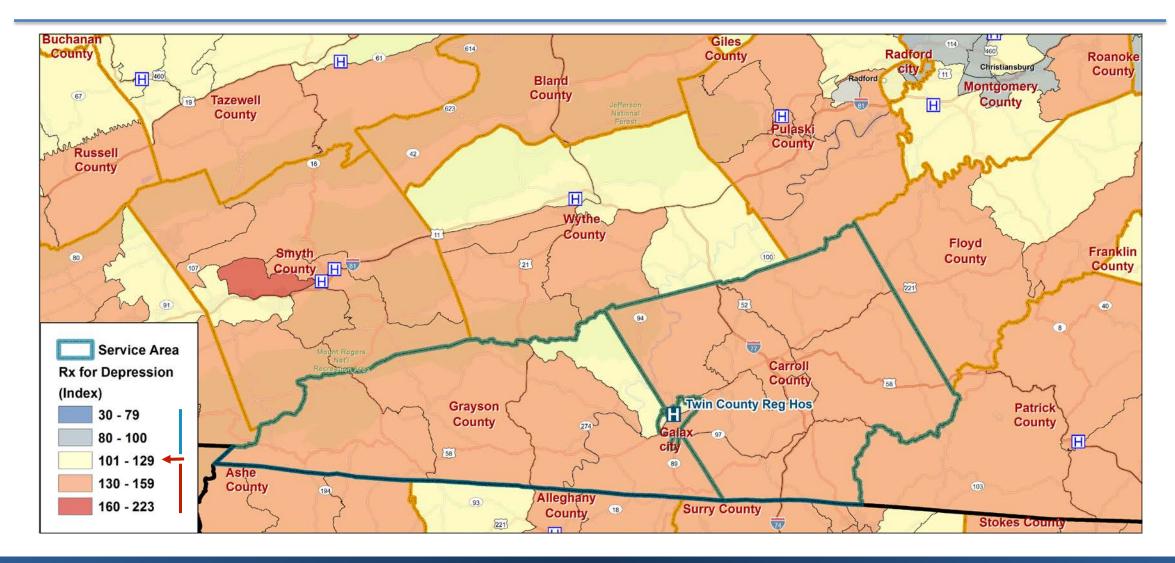


Smoke 9+ Packs of Cigarettes per Week by Census Tract Tract Tract





Use Prescription Drug for Depression

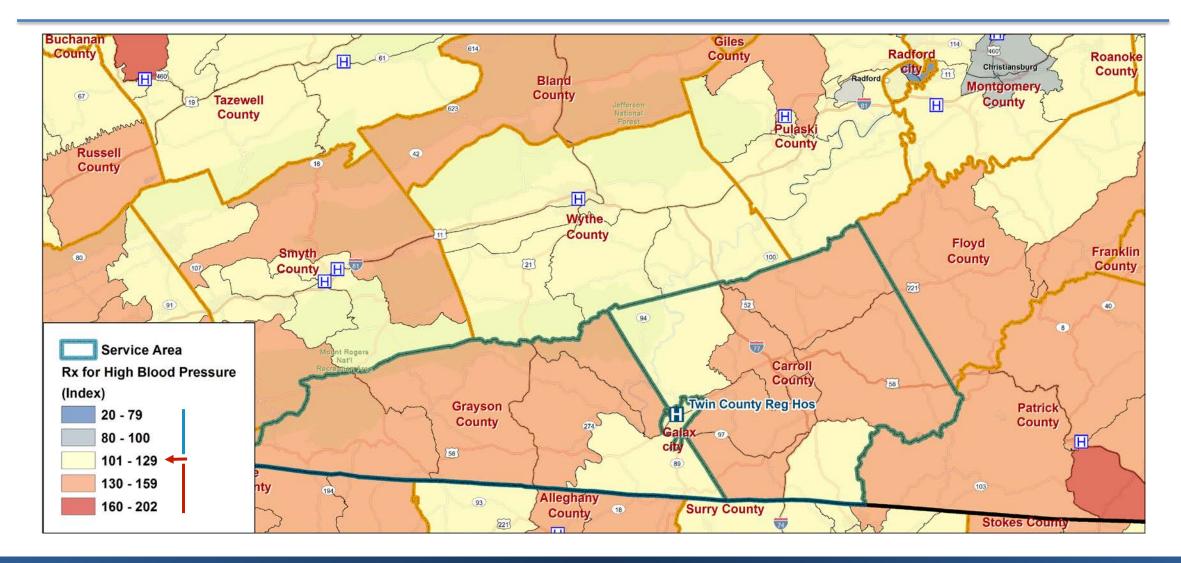






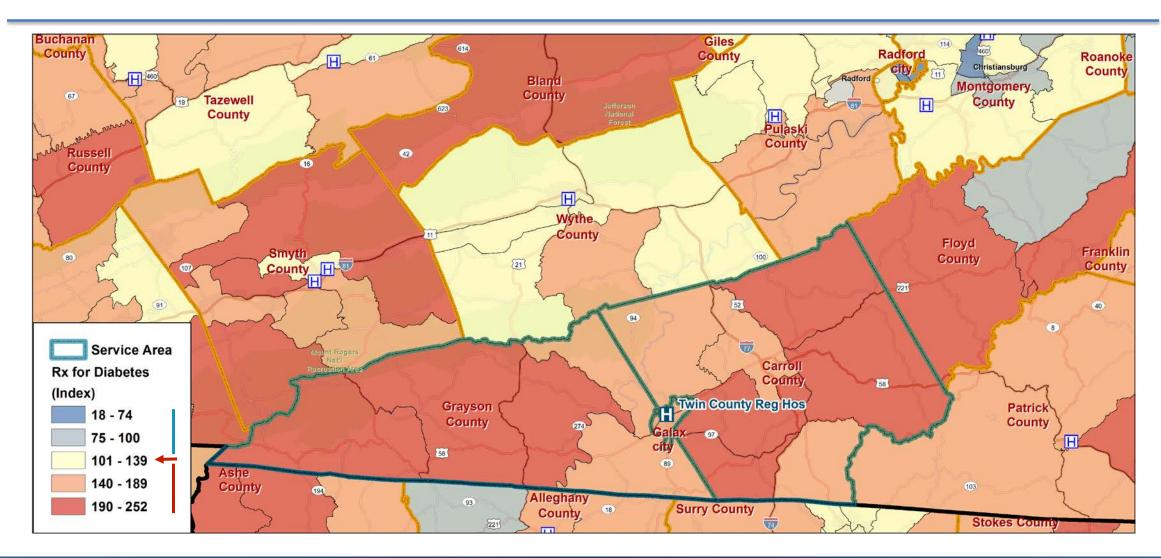
Use Prescription Drug for High Blood Pressure





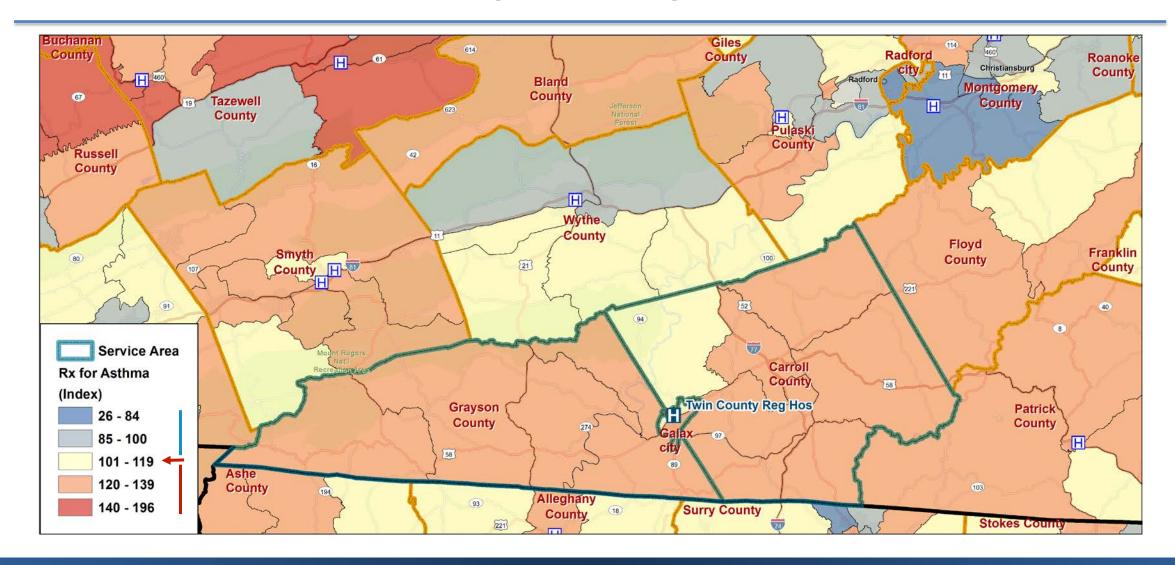


Use Prescription Drug for Diabetes (Insulin Dependent) Puke LifePoint Healthcare





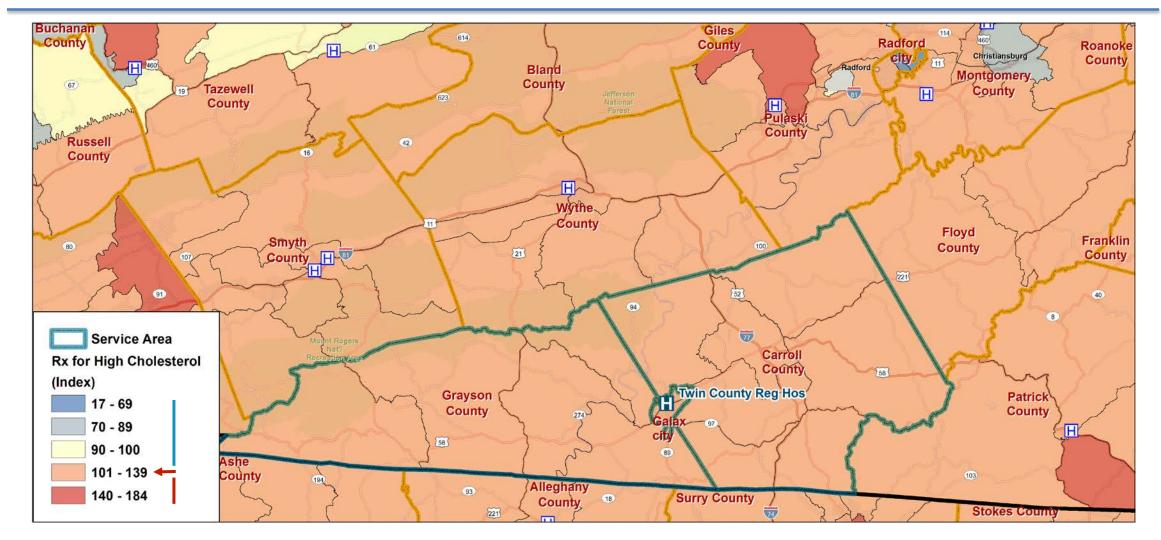
Use Prescription Drug for Asthma





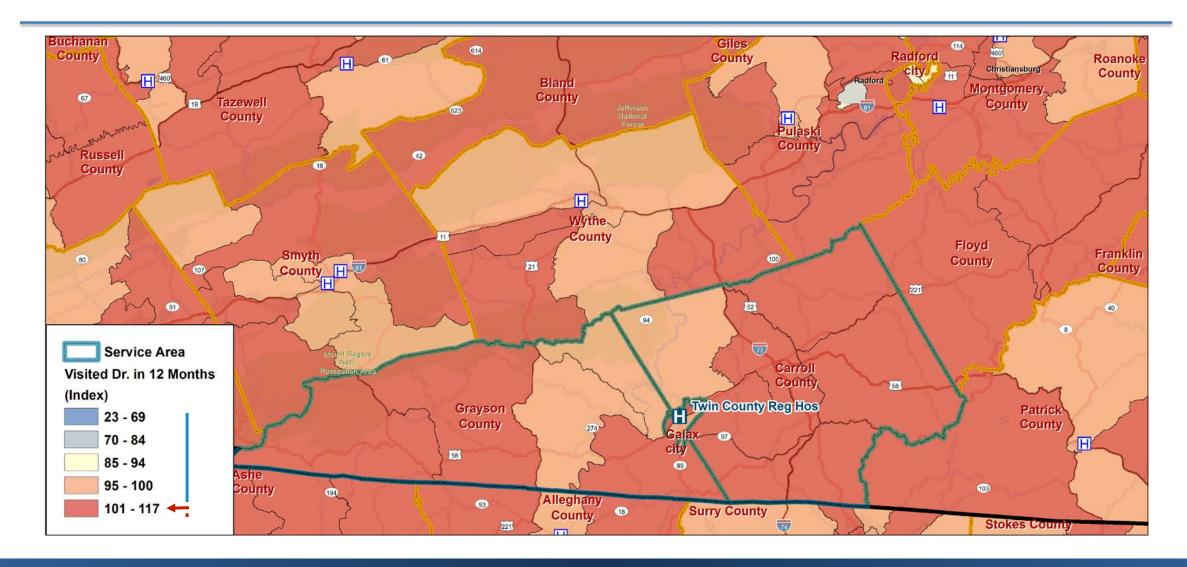








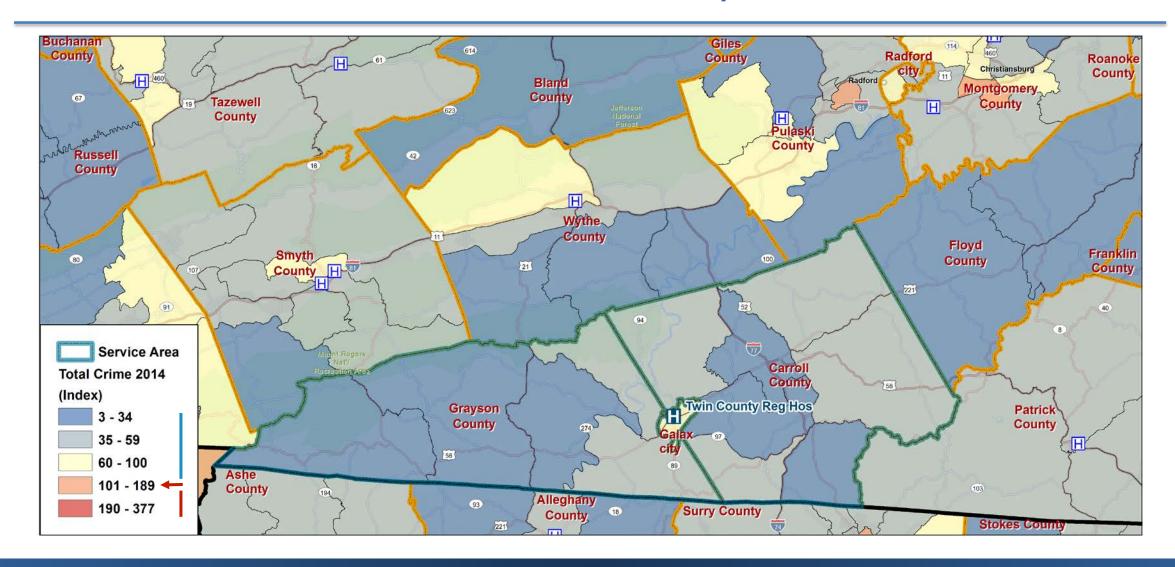
Visited a Doctor in the Last 12 Months







Crime Index Map





WHAT ARE THEY?

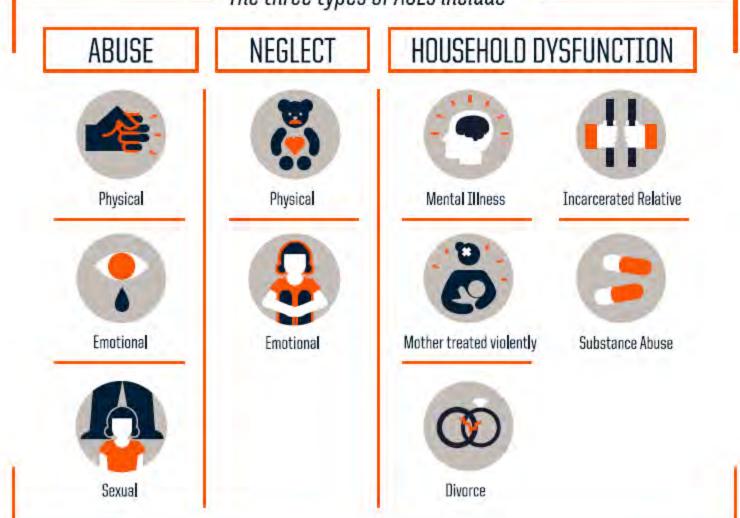
ACES are

ADVERSE CHILDHOOD EXPERIENCES



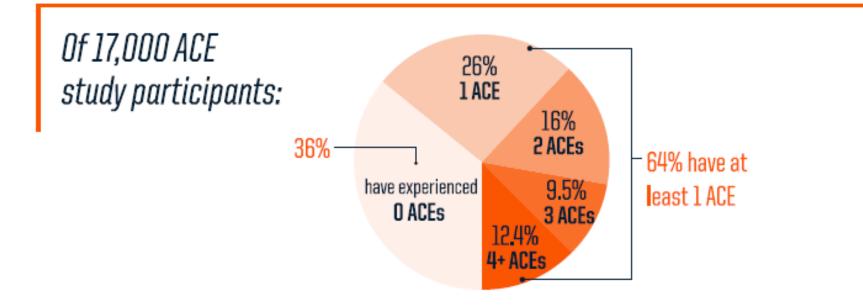


The three types of ACEs include





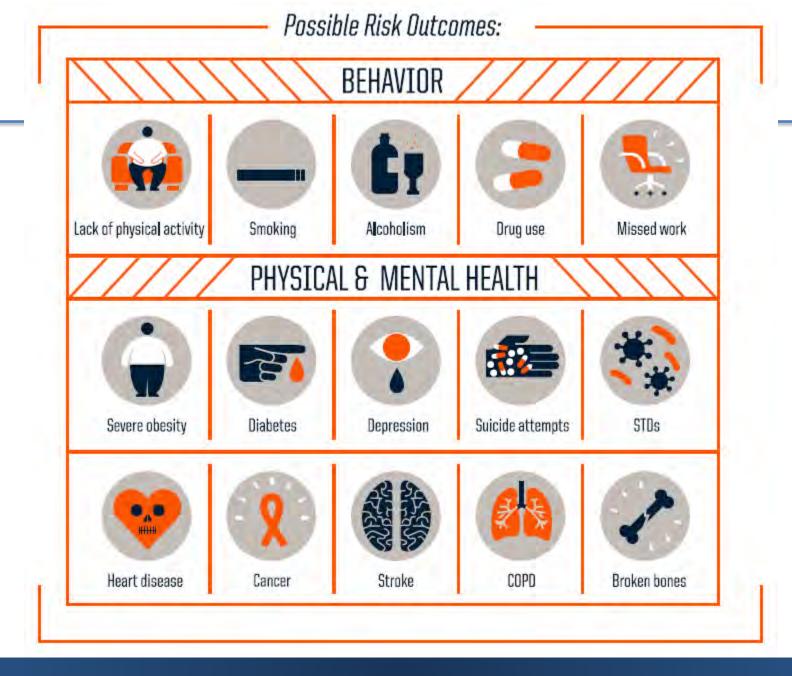
HOW PREVALENT ARE ACEs?





WHAT IMPACT DO ACEs HAVE?

As the number of ACEs increases, so does the risk for negative health outcomes 3 ACEs O ACEs 1 ACE 2 ACEs 4+ ACEs





Duke LifePoint Healthcare



Community Focus Group

Twin County Regional Hospital CHNA





Focus Group Participation

• On June 2nd, 27 community members gathered at Twin County Regional Hospital in Galax to share their opinions on community health needs.



Generally, how would you describe the community's health? LifePoint Healthcare

- Fair
- Fair to Midland
- Poor
- Lower income and demographics determine health
- Patients in long-term care are more acute each year

The community performed a CHNA in early 2014 and identified priorities for health improvement:



- I. Obesity
- 2. Chronic diseases
- 3. Smoking
- 4. Lifestyle behavior and education
- 5. Substance abuse and mental health
- 6 Diabetes
- 7. Socio-economic issues uninsured/access to health insurance, poverty, affordable healthcare
- 8. Family and personal responsibility
- 9. Teen pregnancy
- 10. Issues of aging
- 11. Access to care and/or urgent care



What has changed the most in the last three years related to health status?



Worse

- The distance people have to travel has gotten worse, decreasing access
- Affordable dental care is still a big need
- Patients can't afford their medications
- Lack of psychiatric services has gotten more acute
- High deductibles decrease access because even thought people have insurance, they can't afford their potentially \$6,000 deductible.
- The economy is still bad and many health issues are tied to the economy drug abuse gotten worse
- Increase in overdoses

What has changed the most in the last three years related to health status?



Better

- The hospital has begun a program for workplaces screenings, high blood pressure, cholesterol, etc. Stressing know your numbers.
- There is better access to primary care and increased access for the uninsured. The hospital emergency department hasn't seen as many primary care visits. Two urgent care centers opened since the last CHNA.
- Telemedicine is available to long-term care which is nice to have
- Increased access to screening mammograms and colonoscopies
- Clinics are very comprehensive
- There are less people applying for public benefits

What are the biggest health concerns for Carroll and Grayson Counties and Galax City today?



- Chronic illnesses diabetes, COPD, high blood pressure, obesity, cardiovascular disease
- Lack of psychiatric services palpable all day, multiple times a day issue. Big chunk of primary care practices are mental health.
- Referrals for dementia patients with psych and behavioral issues
- Mental Health
- Substance Abuse
- Alcohol-induced dementia
- Availability of short-term assistance for dementia patients need geriatric psych unit
- Respite care for dementia patients' families
- Scheduled closure of Southwest Virginia Training Center developmentally disabled adults residential
- Smoking, smokeless tobacco, Vapor cigarettes
- People making poor choices can't afford medication, but have other non-necessities
- Pulmonary rehab would be great to have in the area
- OB/Gyn doctors will be an issue in the next couple of years
- Need adult day care



What are the most important health issues facing various populations? including, medically underserved, low-income and minority populations?

- Wellness and self-care and engagement
- Dental issues only extractions available, issue with children under 3 years of age, Medicaid population difficult to find care, uninsured
- Transportation is an issue for these populations. Hope Ministries has started a transportation program, but is full and most options aren't very efficient.



What are the most important health issues for children? Whe LifePoint Healthcare

- Physical activity
- Failure to thrive more lately
- Exposure to Trauma Adverse Childhood Events
- Asthma
- Second hand smoke
- Ability to generate a vision for themselves beyond Galax. Furniture and textile industries were always the jobs.

What were the barriers to improving health in the last three years and going forward?

- Jobs, industry
- Local culture, attitudes
- Generational trends, learn to work the system and no incentive to find work
- Cycles benefits, teen pregnancy, short-term vision, no long-term vision
- There are success stories setting goals and meeting them
- Change policies and the environment, but sometimes returning to their environment isn't ideal





What behaviors have the most negative impact on health?

- Lack of good nutrition
- Substance abuse
- Non-compliance
- Inertia
- Teen pregnancy Tri Area Pregnancy Center very helpful
- Suicide at one point was highest in the state

What environmental factors have the biggest issue on community health?



- Many people have well water don't know if it's treated. Grayson has
 no fluoride in the water.
- Trauma
- Living conditions barely flooring, animals, poor living conditions
- Long commutes to work
- Shift work impacts health
- Substance exposed newborns increased in the last few months



What community assets support health and well-being?

- Pathways to Health
- Remote Area Medical but trying to get them both to come closer to Galax
- Mt. Rogers Youth program mentors
- Robust wellness centers that promote exercise in Galax and Carroll Co
- Small town and ability to network; no silos
- Rooftop
- Spirit of collaboration in the area, example hospital and long-term care
- Even remote areas feel included in the community
- Psych is available at the FQHC in eastern Carroll County
- Free Clinics and FQHC sliding scale
- Large number of home health agencies
- Lots of faith-based programs
- Nurses at the hospital are providing care in their own congregations



Where do members of the community turn for basic healthcare needs?



- Hospital emergency department
- FQHC
- Free Clinic
- Urgent Cares
- Health Department
- Patient Assistance Program from Carilion
- Each other
- Internet
- Some very tech savvy, smart people in Galax

What does the community need in order to manage health conditions or stay healthy?

- Jobs
- Wellness center access for low income Recreation Center has a free track
- Knowledge, education on diabetes and hypertension
- Cooking Matters Public health
- Knowledge and responsibility
- Parent training
- VA Cooperative extension offers cooking classes people don't know about it and when people do, they don't come
- People are just trying to get food and don't have enough willpower to break habits
- Help with shopping trips people don't know products and alternative
- Costs more to eat healthy. However, the Cooking Matters class teaches people how to eat healthy for less.
- People don't know the value of what they have. Many opportunities to learn
- May not be educated about nutrition
- Employers with incentive wellness programs have very engaged employees. The financial incentives really work
- Very disappointed to see Mountain Dew and Krispy Kremes in schools, sends the wrong message. School meals aren't healthy. However, the menus with nutrition labels are on the school websites.
- Education in general past high school, life skills, Crossroads Institute has great programs; publicize the opportunities



If you had the power you so richly deserve and a magic wand, what priority health lealthcare improvement actions should Carroll and Grayson Counties and Galax city focus on?

- Bring in jobs
- Broader based thinking
- Impact the economy jobs, industry, education, expand the mindset
- Culture of people don't want to apply and don't want to work, won't commit to a job. If they work, they lose benefits
- Hire young people, but they can't stay off their phones
- EAP standpoint 4-5 generations in workforce today. Differences in culture and value system. Hard to relate to them all, sensitive to culture, age, etc.
- Sense of entitlement, provide opportunities for growth and education, but people aren't motivated
- Capacity to exist without working is high in the Galax area with the low cost of living, hindrance to motivation
- Don't understand how to interview and present themselves; not professional
- Teenagers lack of know-how, job-readiness
- Mt. Rogers has life skills classes
- Junior Achievement at Carroll County schools
- Life skills classes at Rooftop and Grayson County
- It all goes back to no vision; don't access or know resources exist





Employee and Medical Staff Survey

Twin County Regional Hospital CHNA

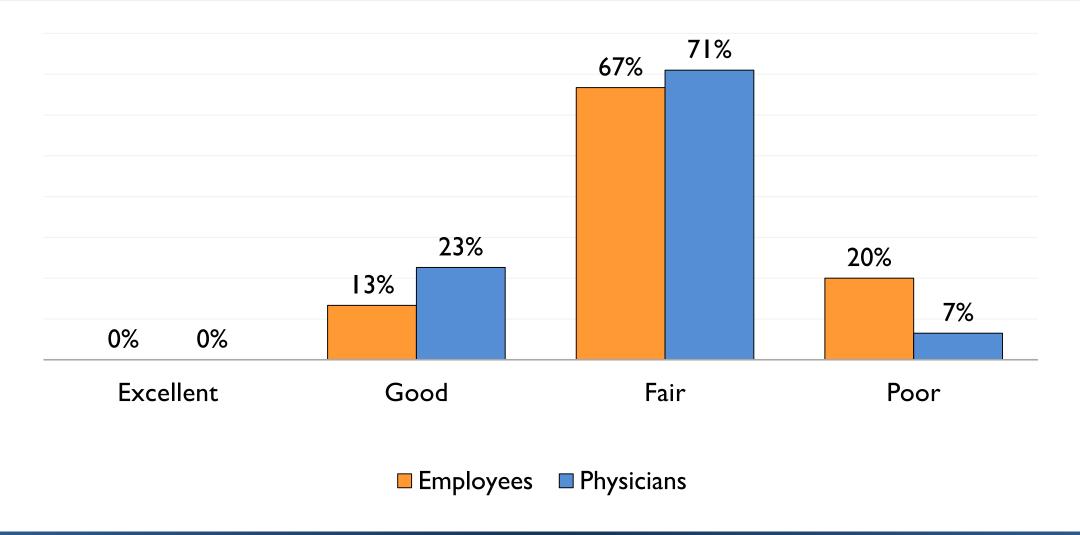




Leadership and Physician Survey

- From May 29-June 14, 31 members of Twin County Regional leadership and 15 community physicians were surveyed on-line regarding their thoughts on community health.
- Where possible, these results were compared to the similar survey from 2014.

How would you describe the overall health status of the citizens of the citizens Galax City, Carroll County, and Grayson County?

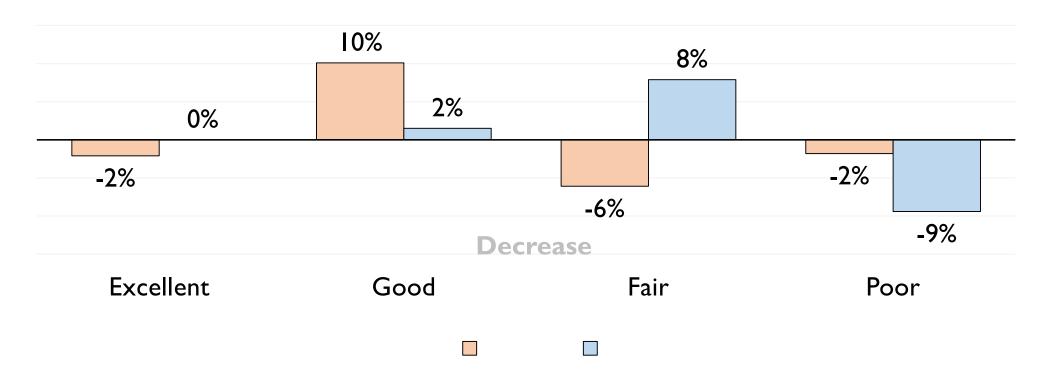




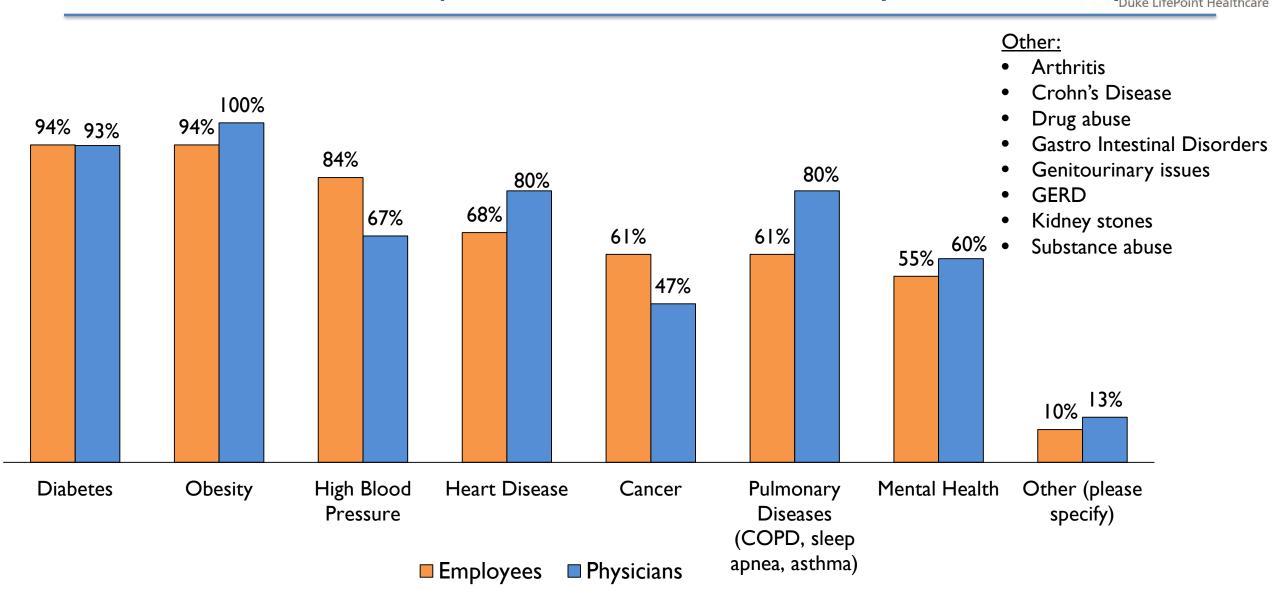








What are the most prevalent chronic diseases in your community regional Healthcare

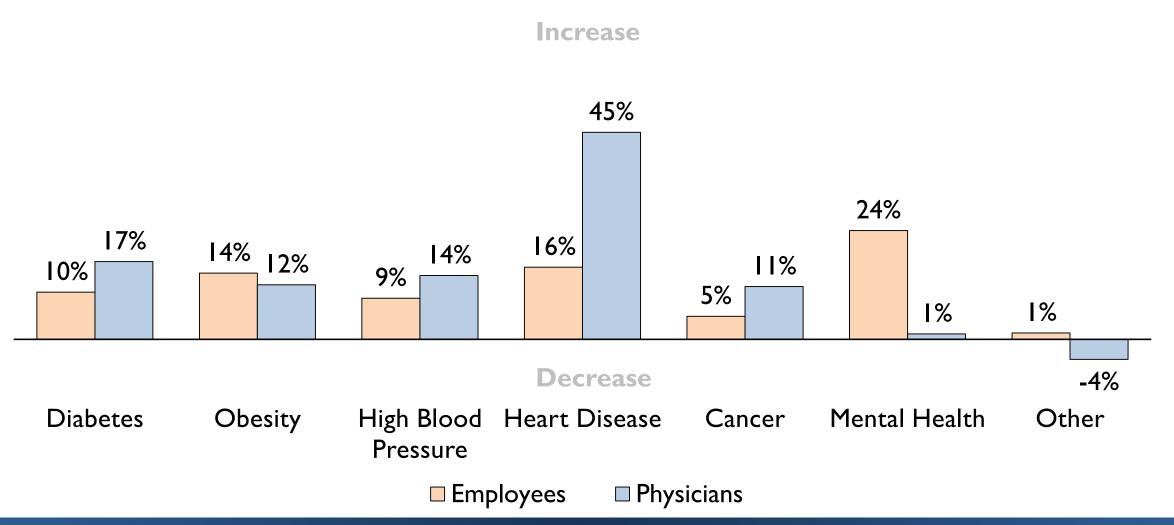




TWIN COUNTY

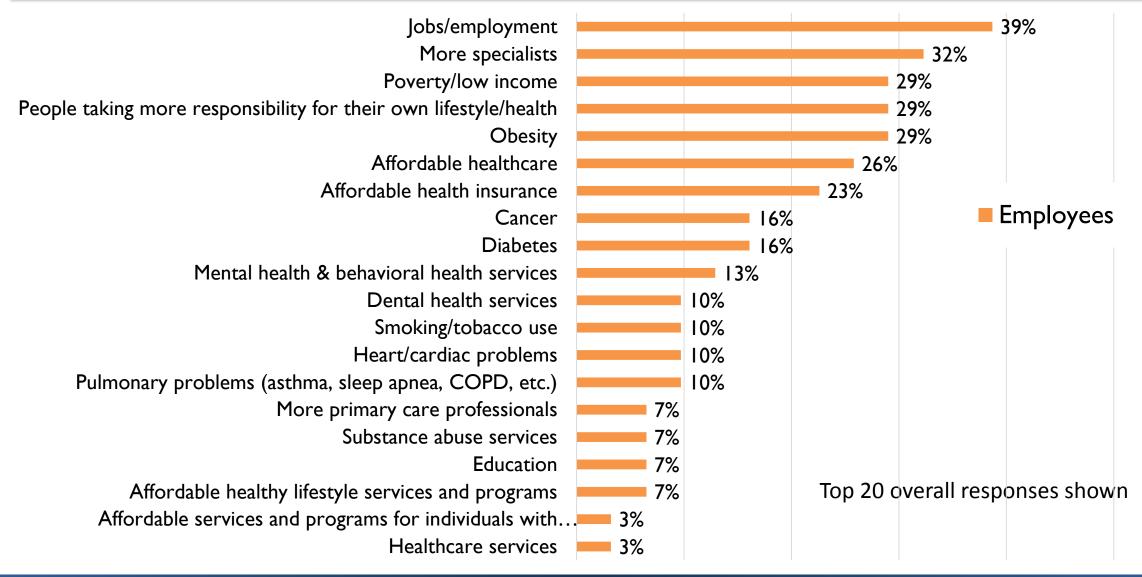
Change in the most prevalent chronic diseases in your community since 2014





What are the top three issues that need to be addressed in your community that impact people's health? (Employees)

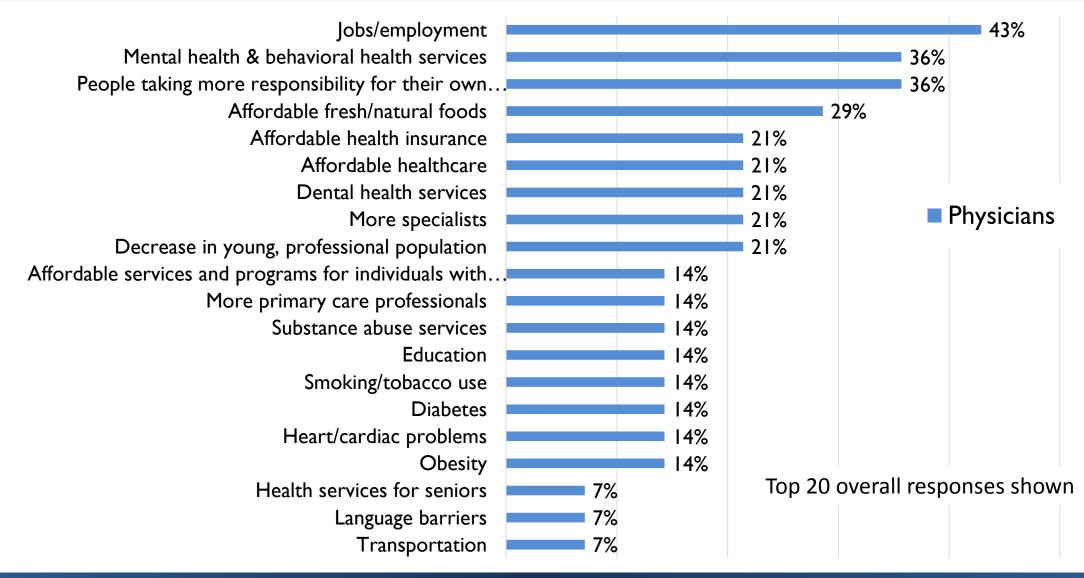






What are the top three issues that need to be addressed in your community that impact people's health? (Physicians)





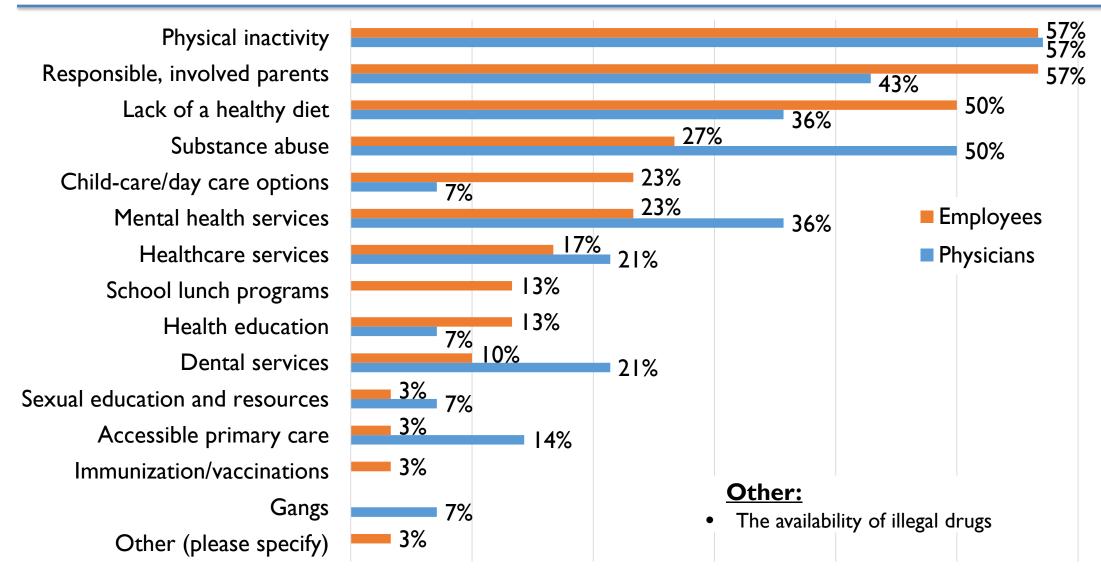


What are the top three health concerns for children in your community?



Regional Healthcare

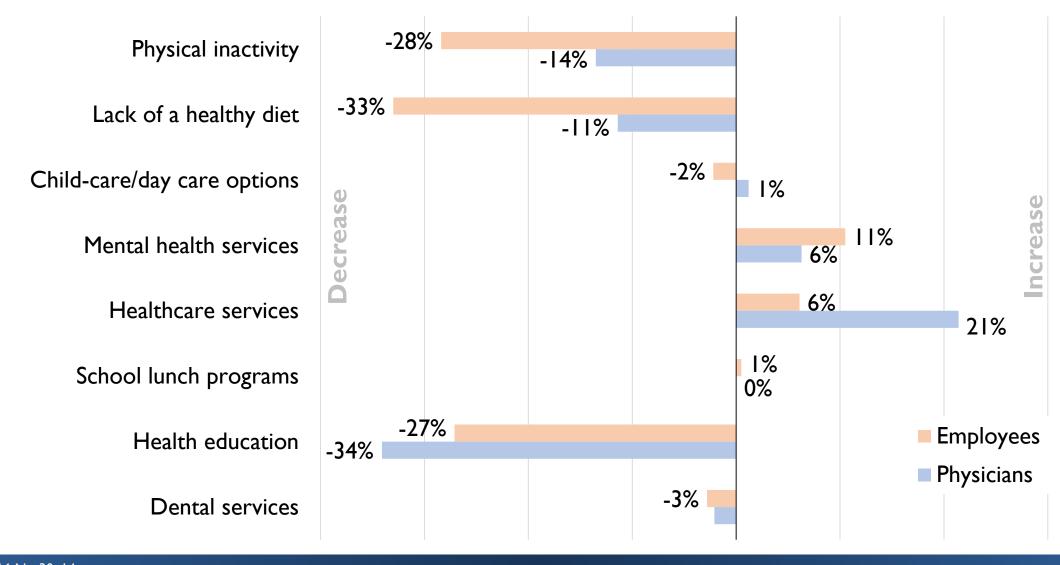
■TWIN COUNTY





Change in the top three health concerns for children in your community since 2014

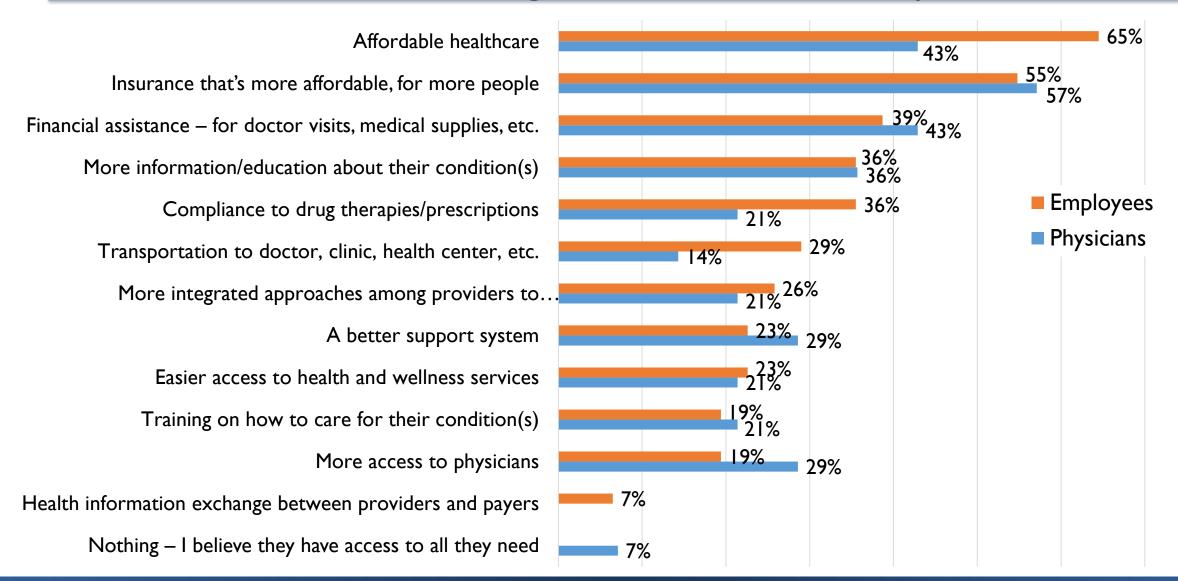






What, if anything, do you think the people in the community need in order to manage their health more effectively?

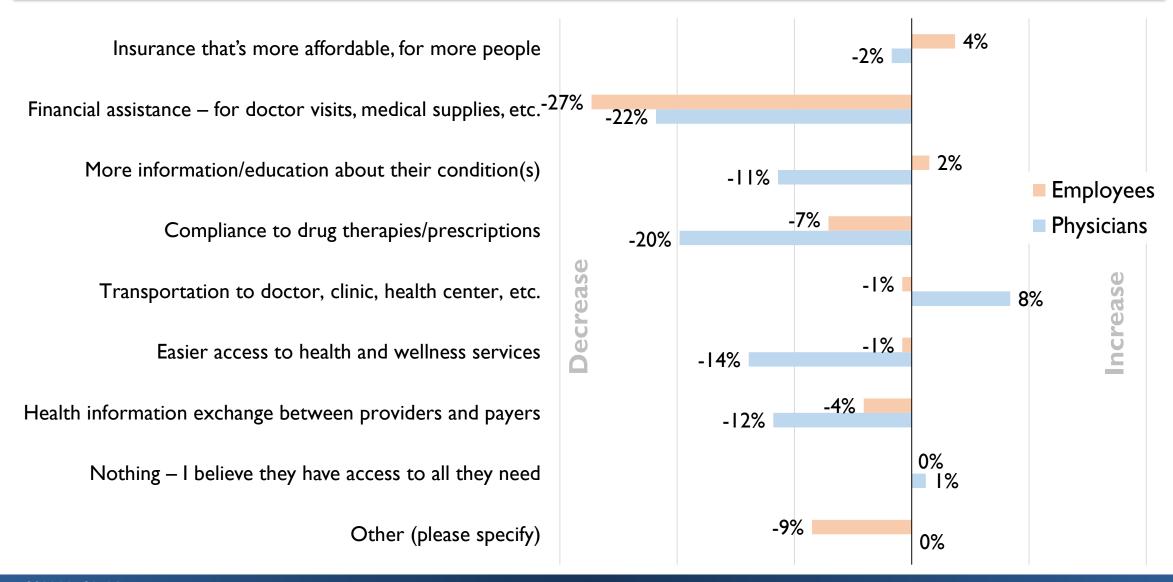






Change in what people think the community needs in order to manage their health more effectively from 2014







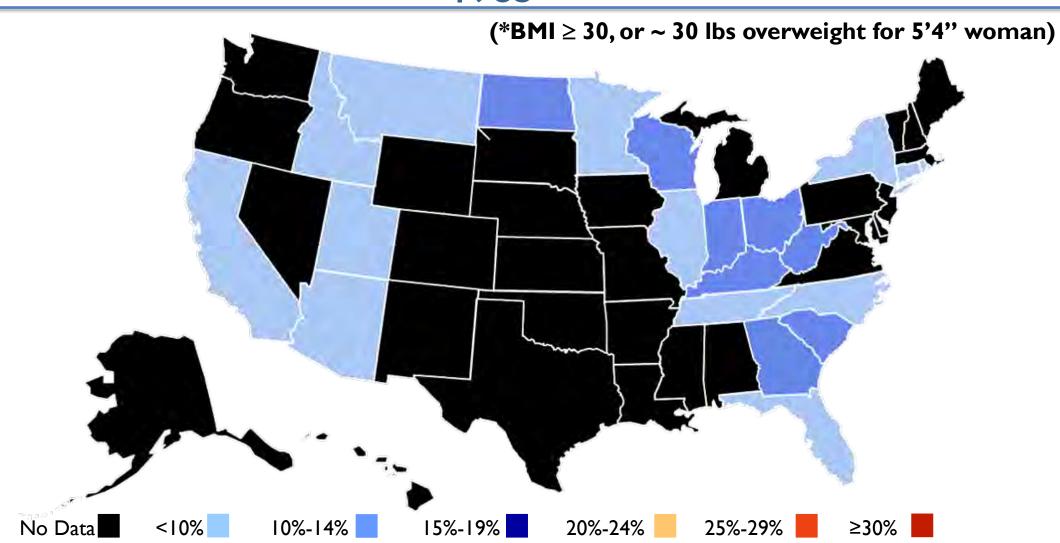


Health of the Community

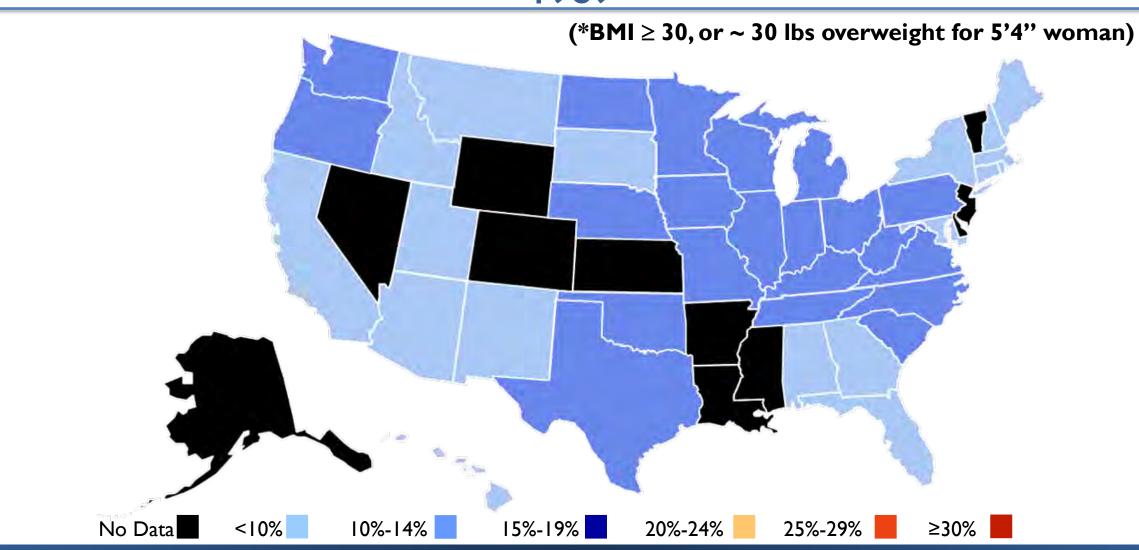
Twin County Regional Hospital CHNA



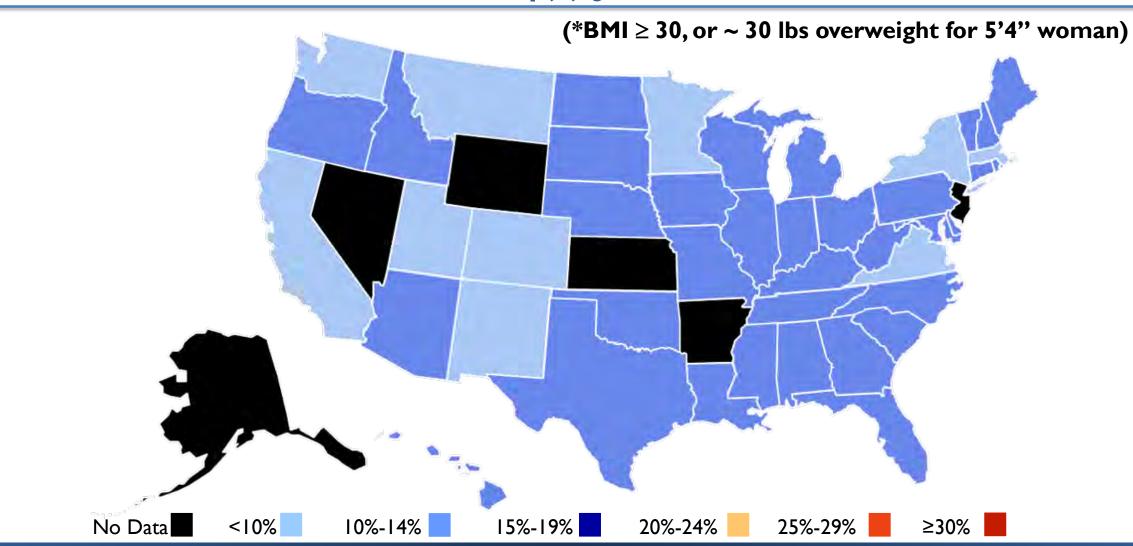






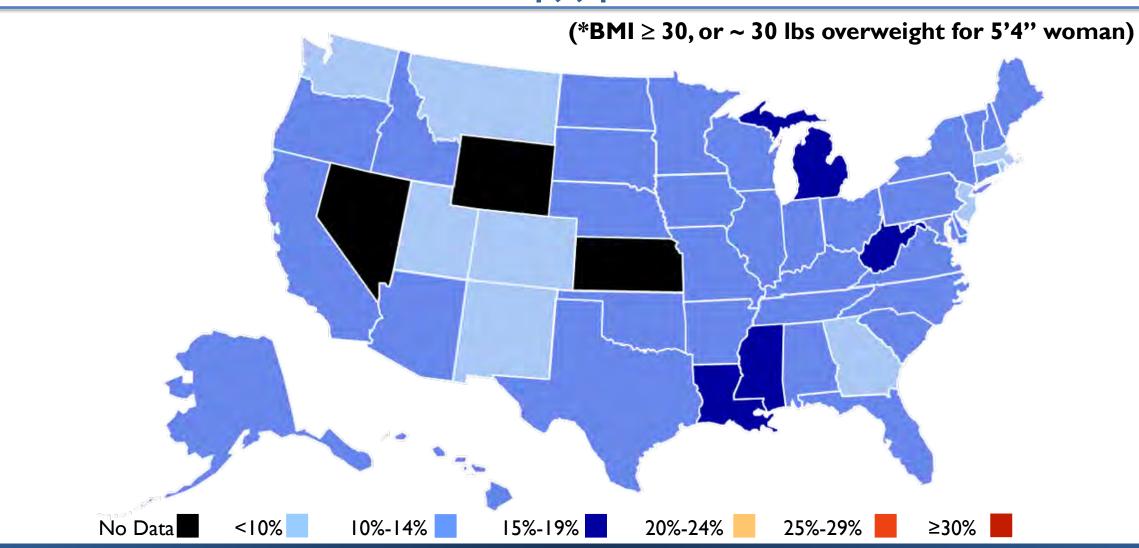






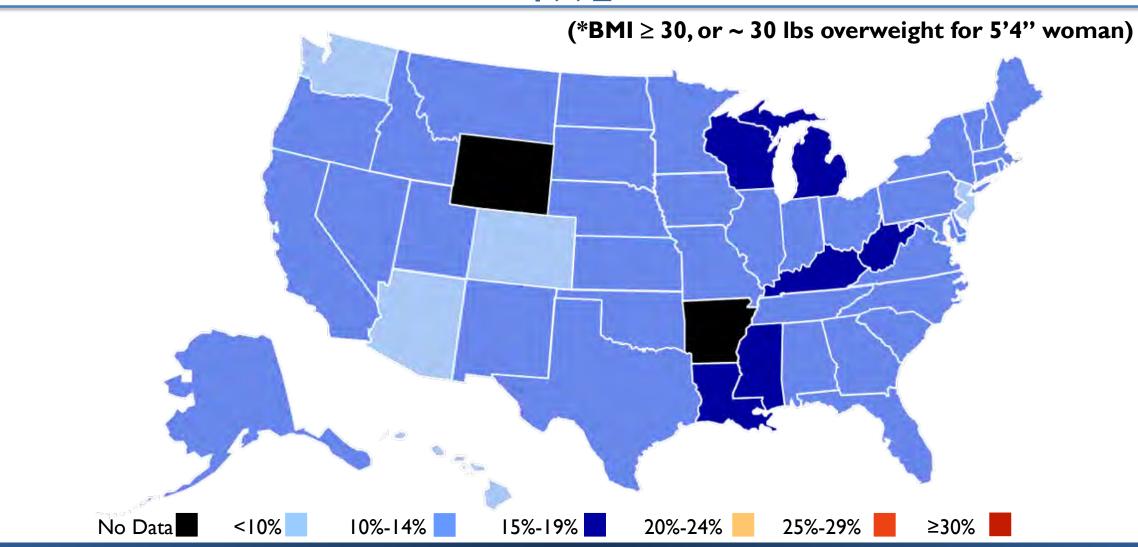




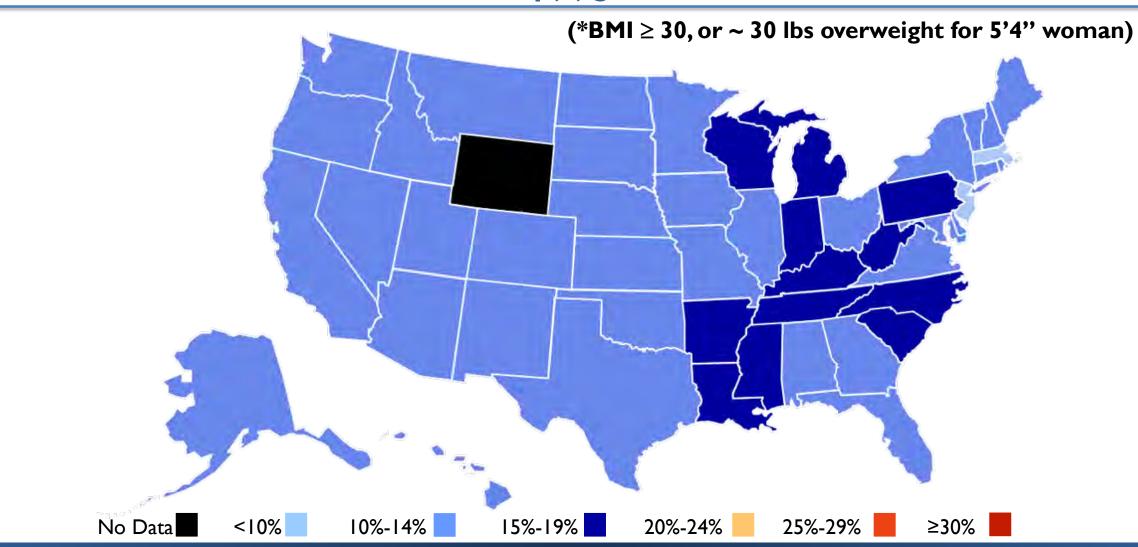




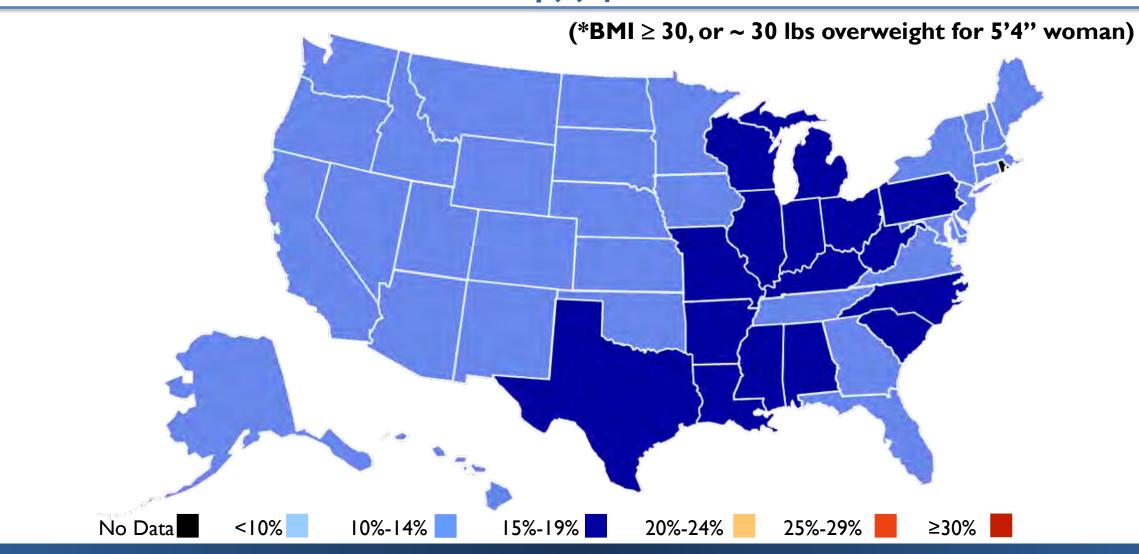




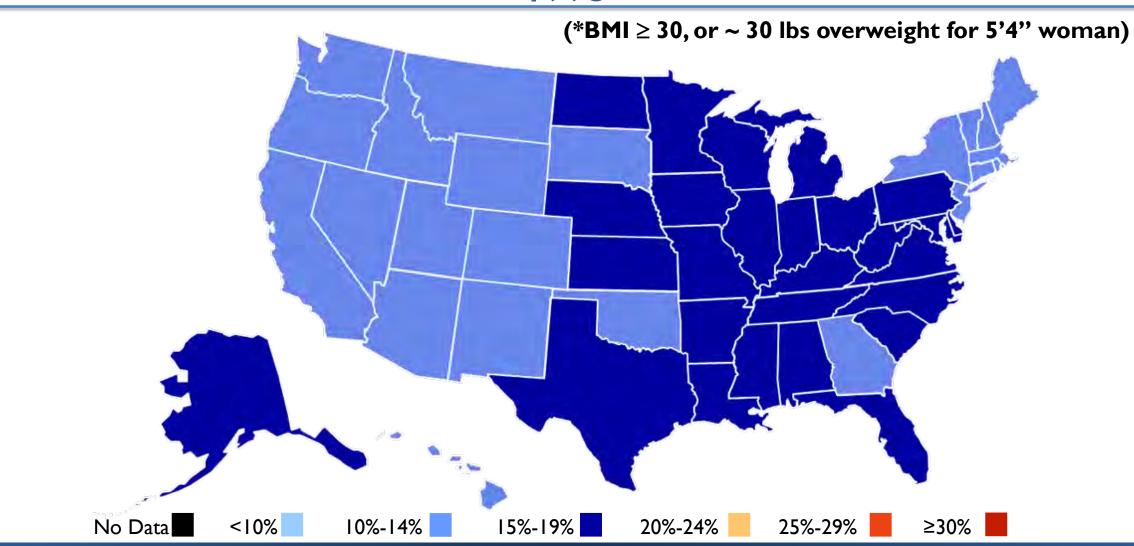




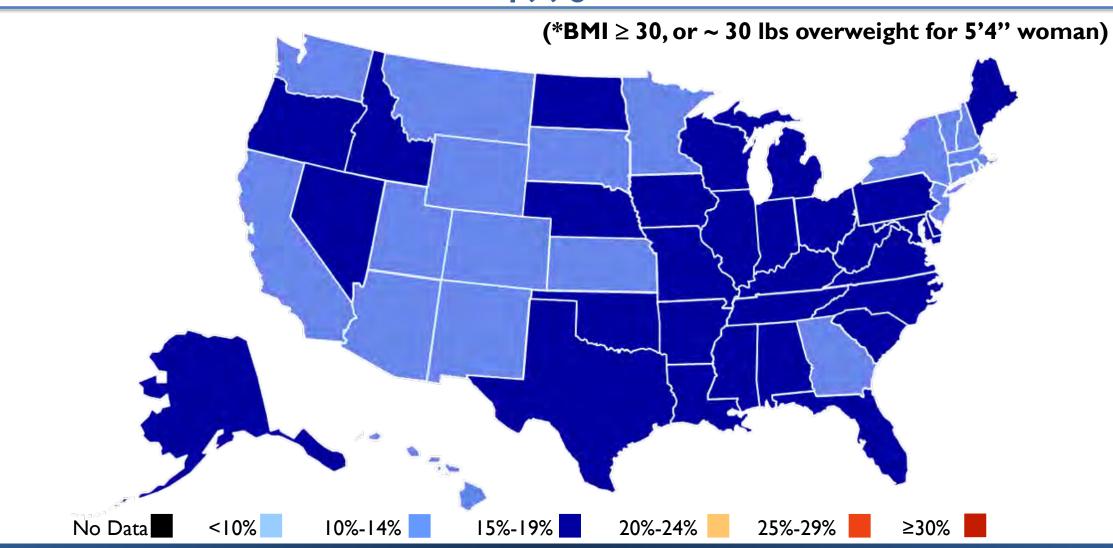




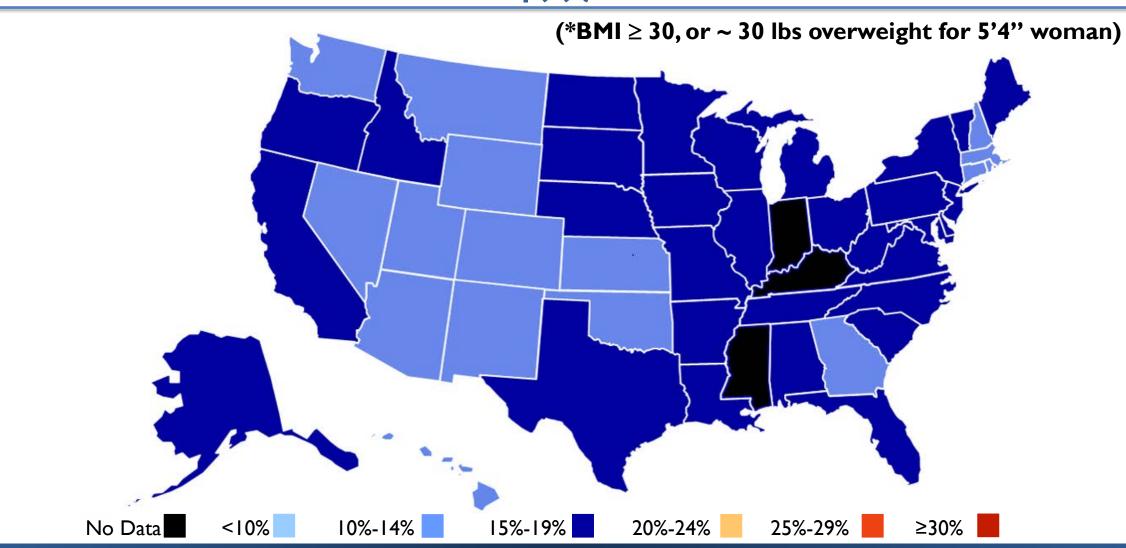






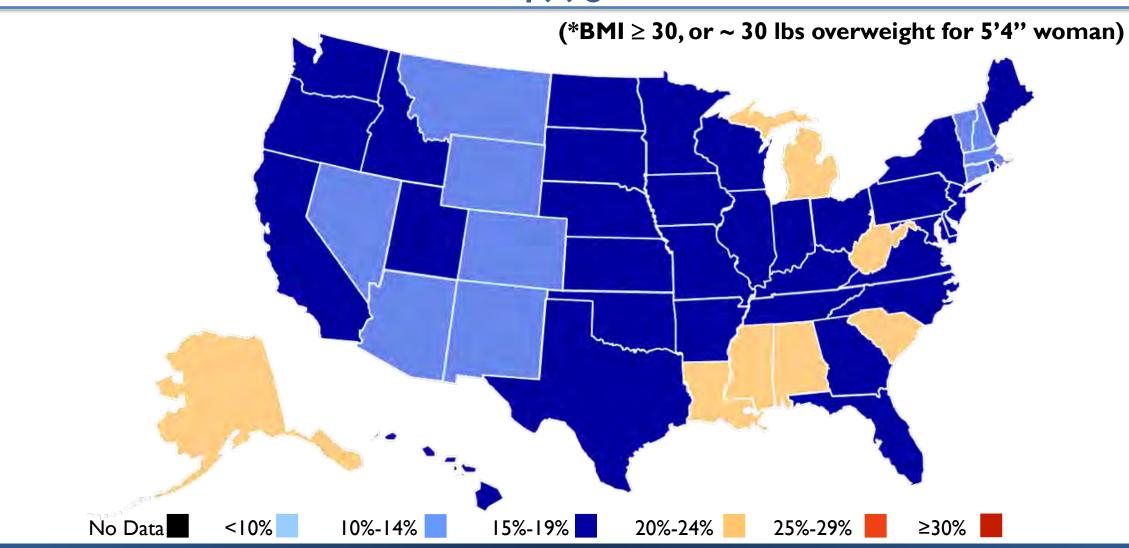




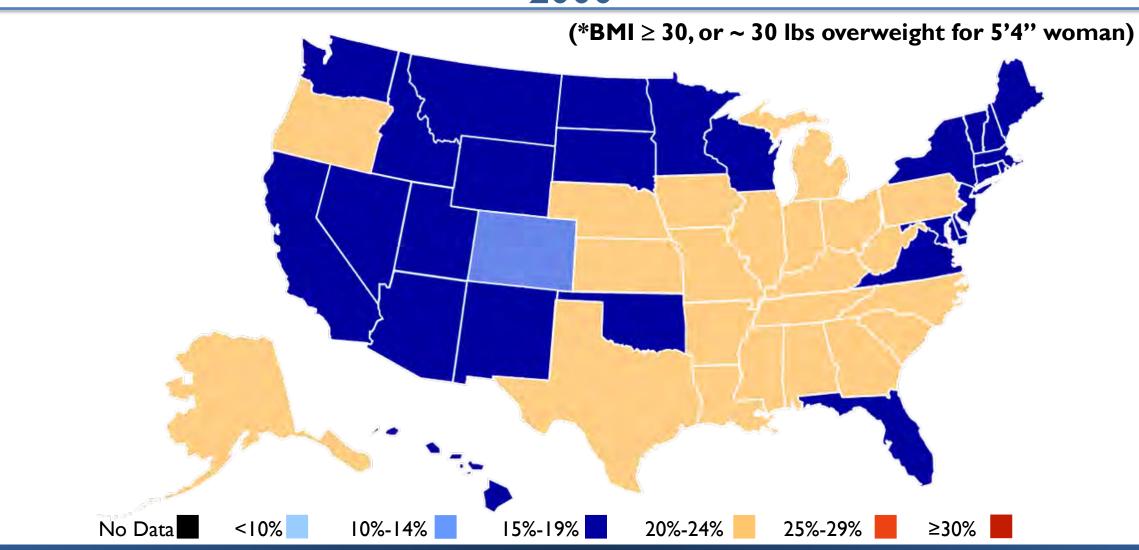




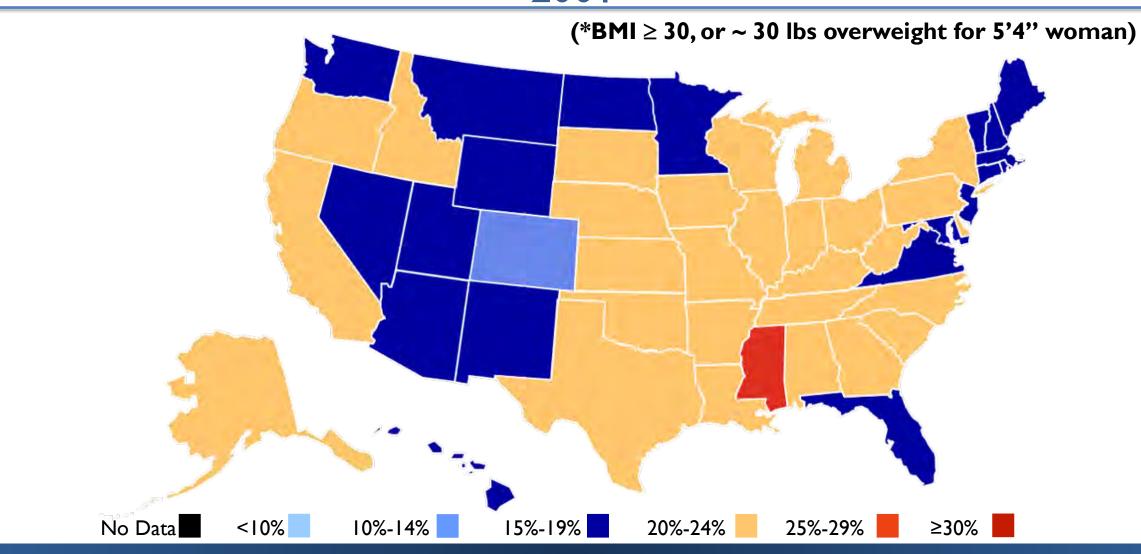




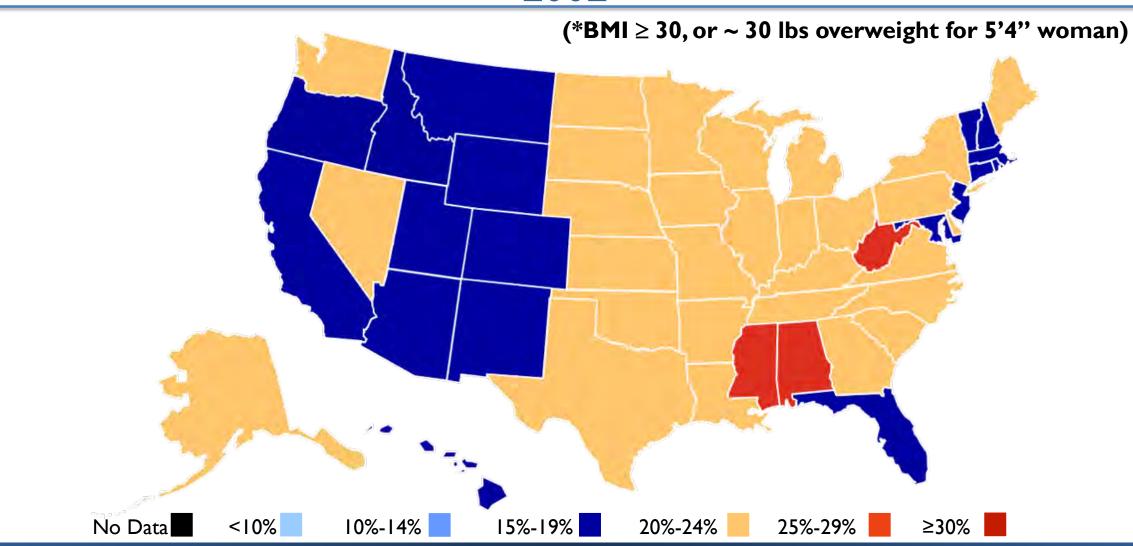




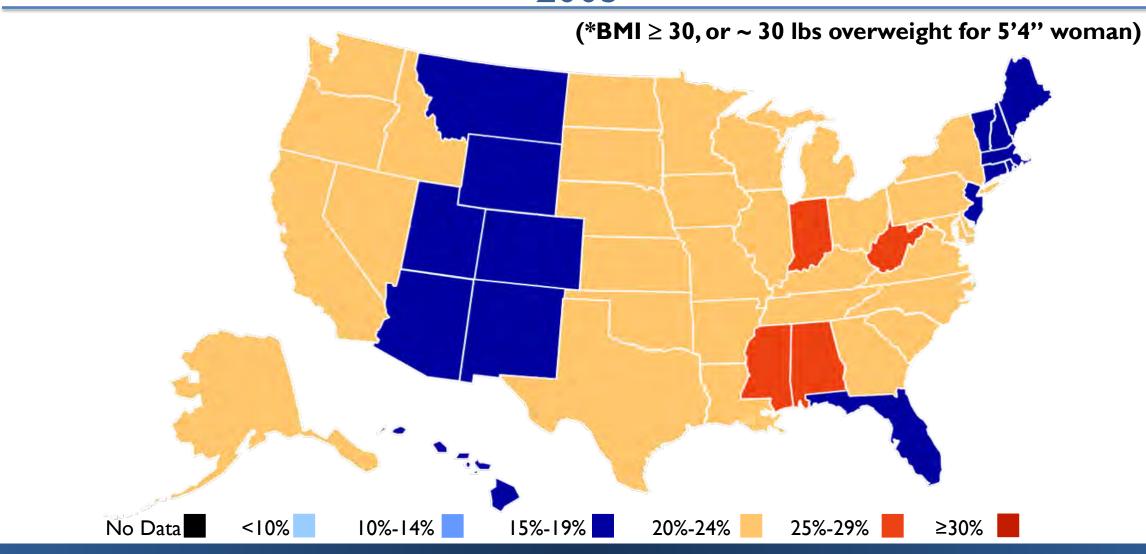




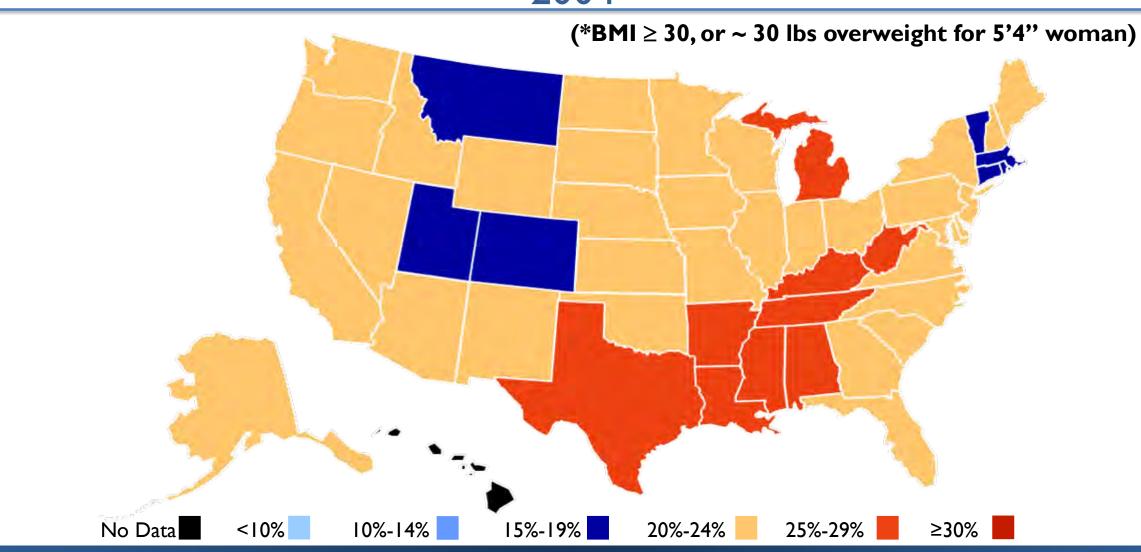






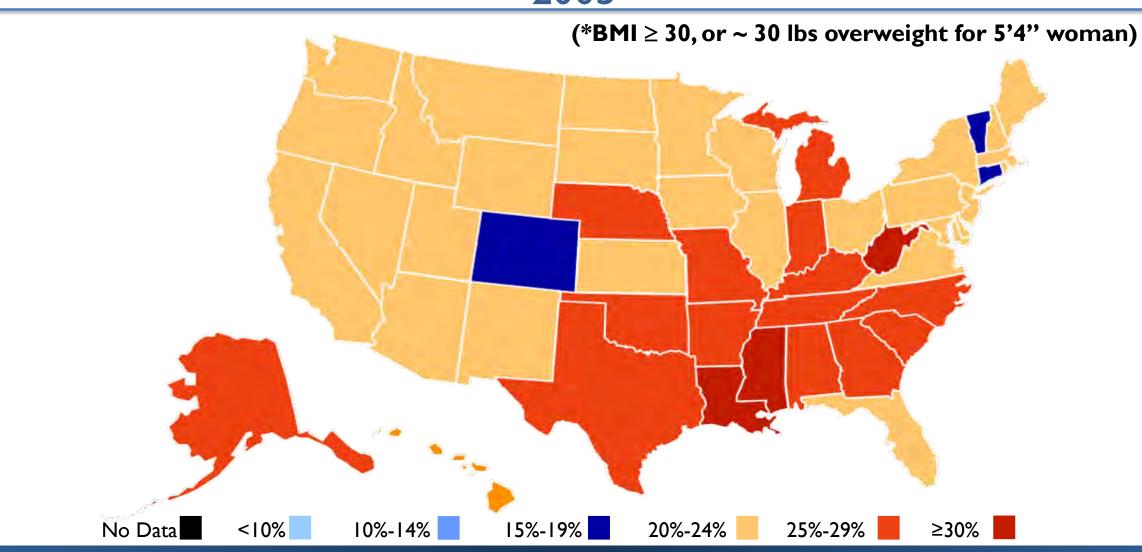




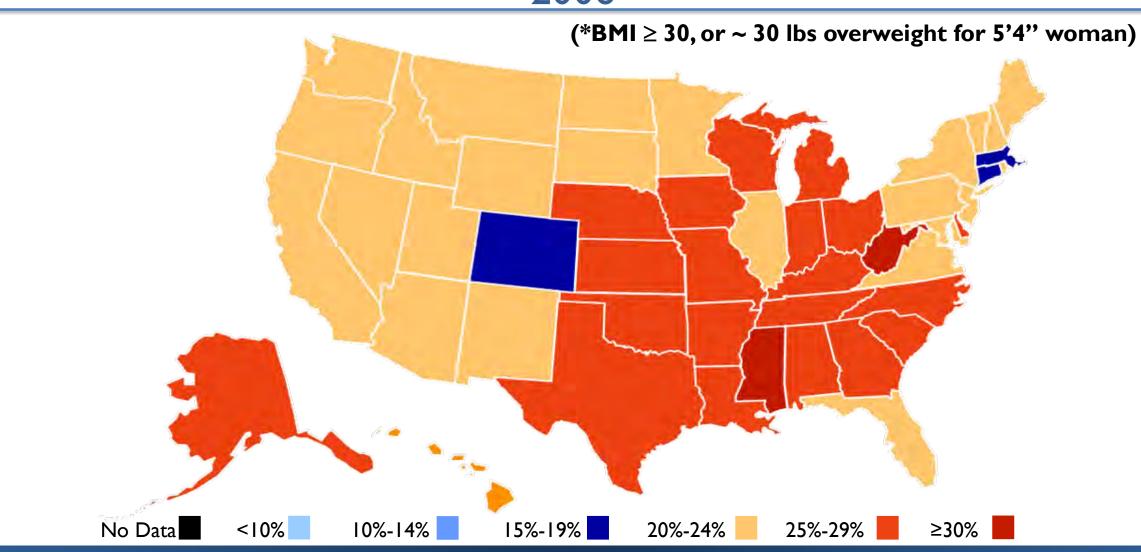






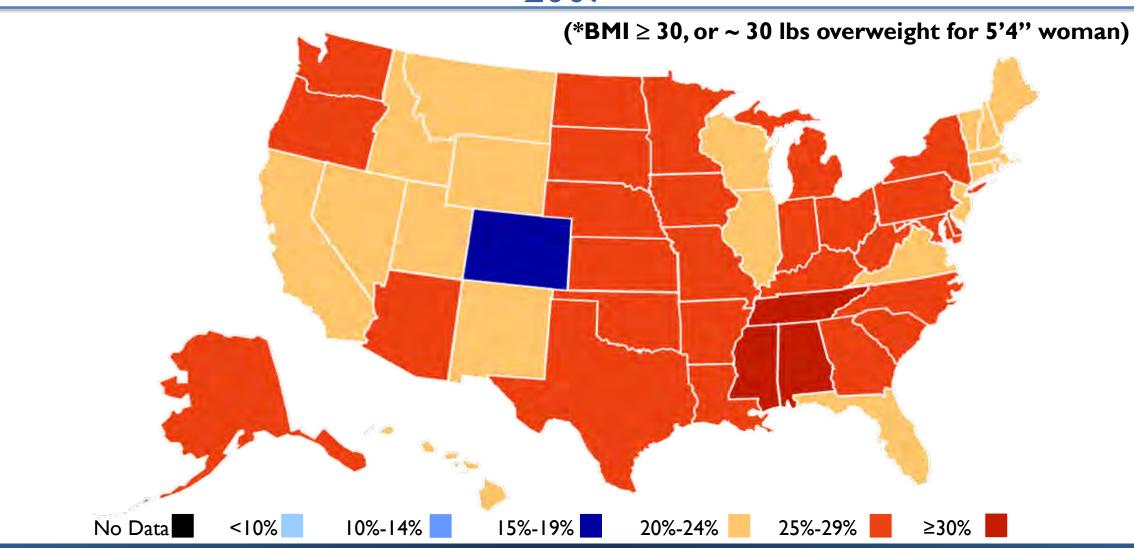






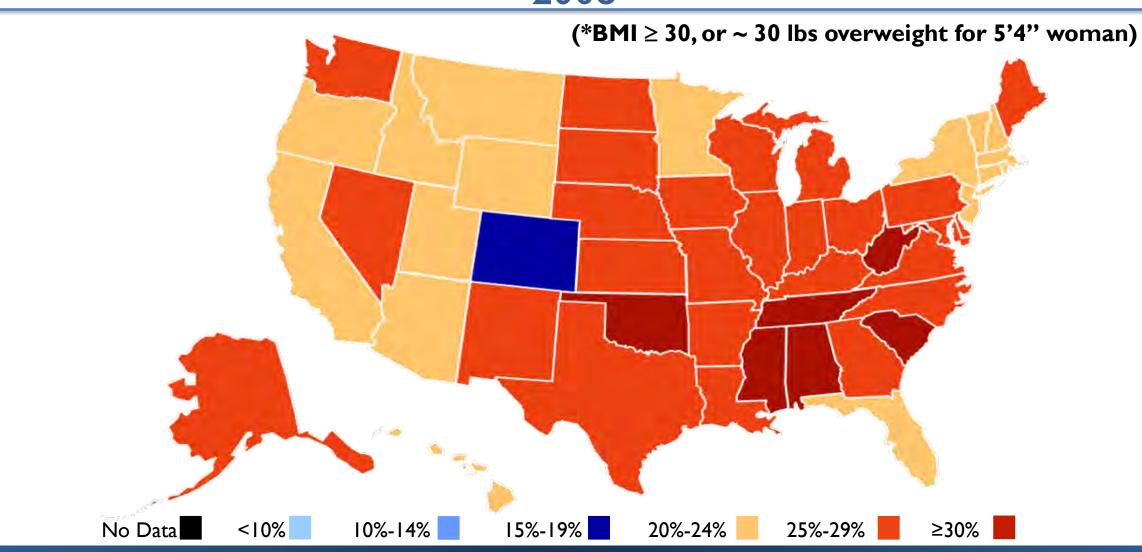




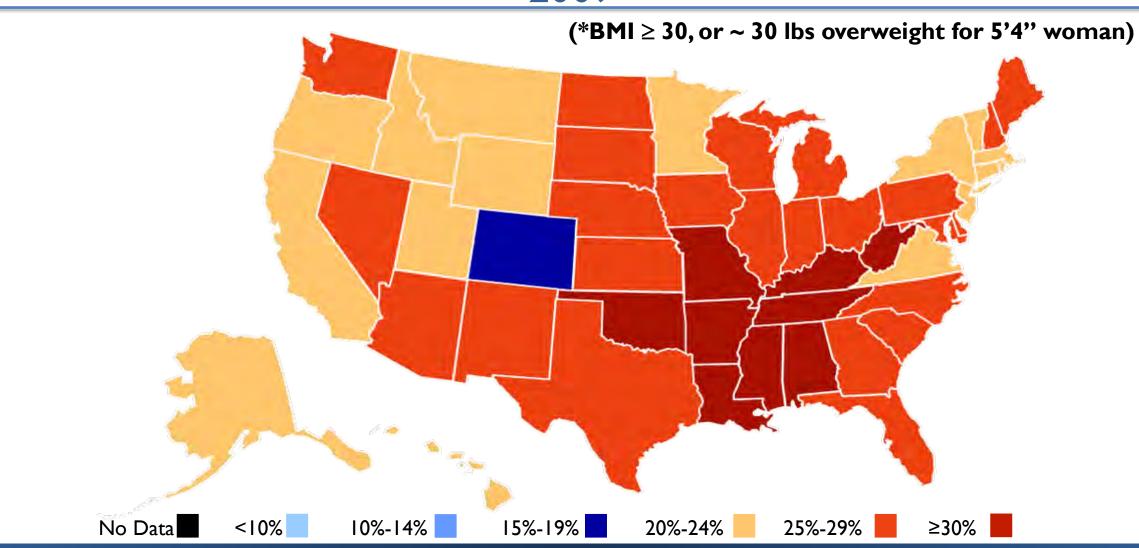






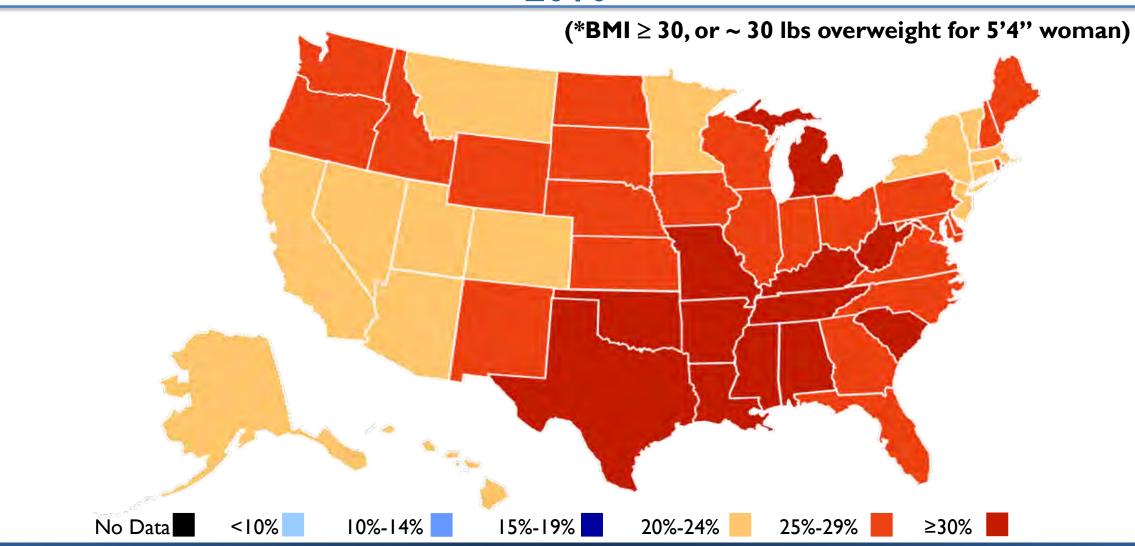






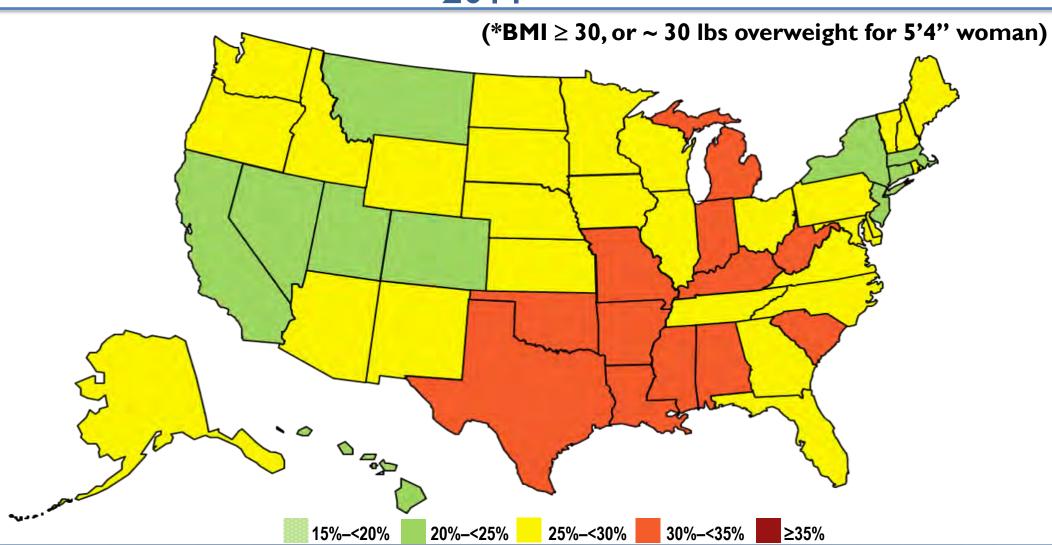




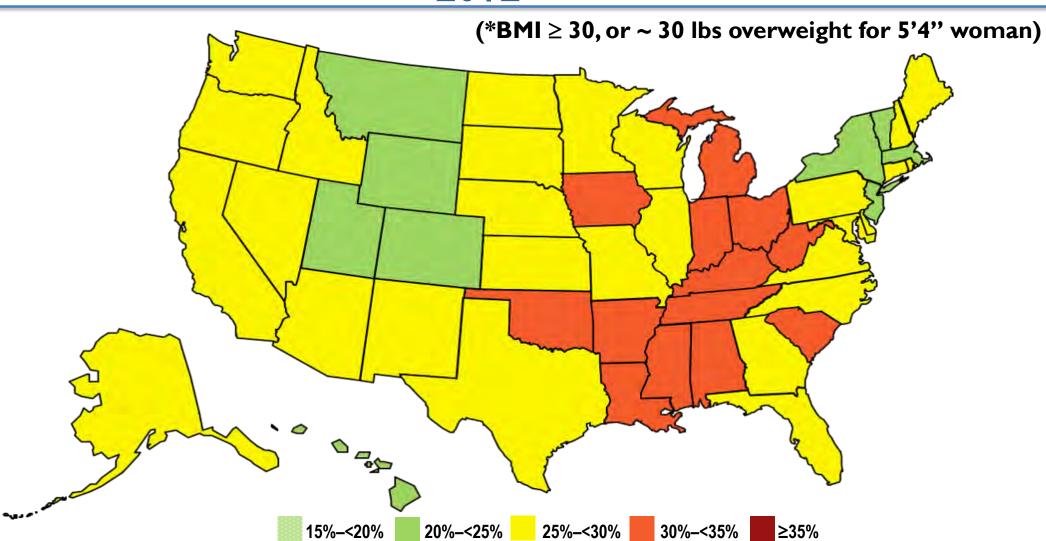




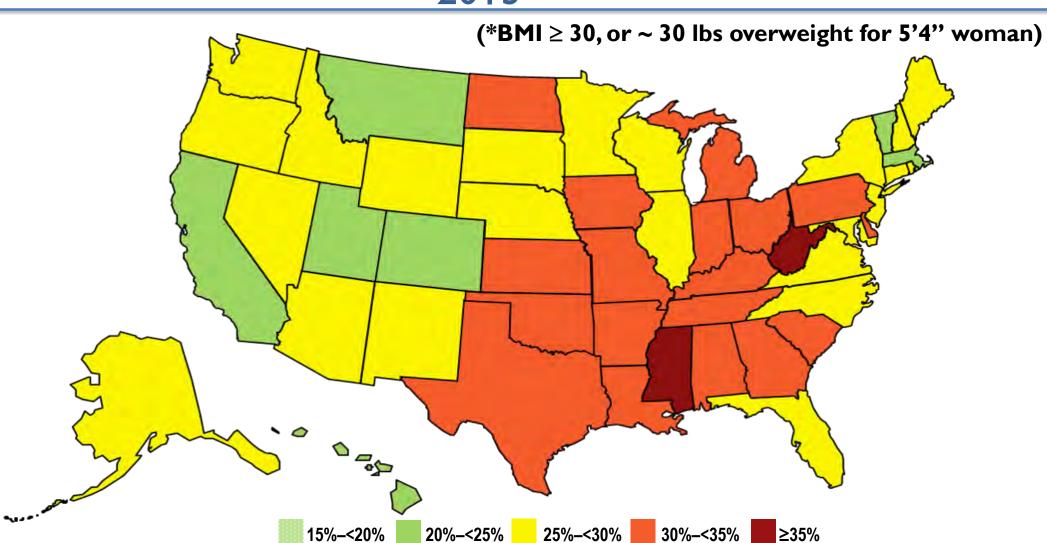




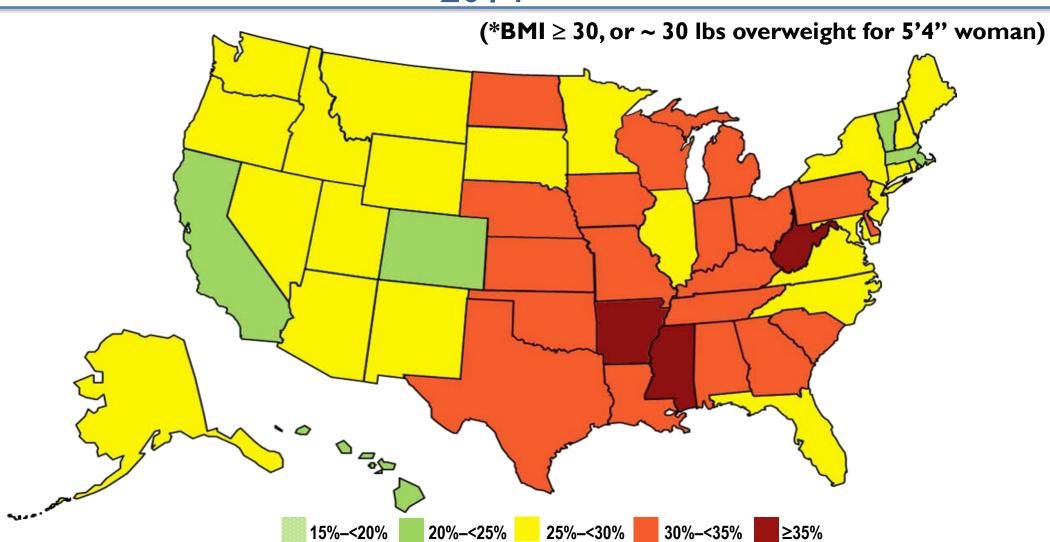






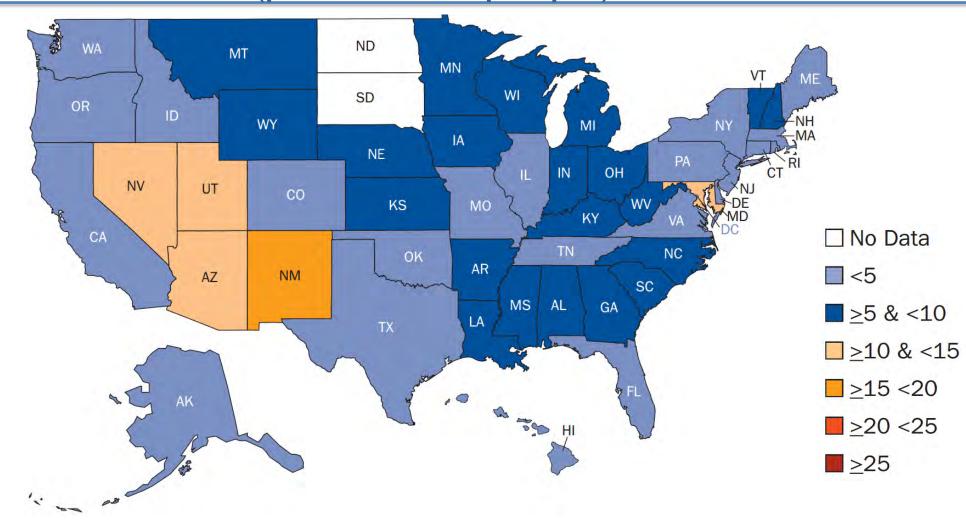






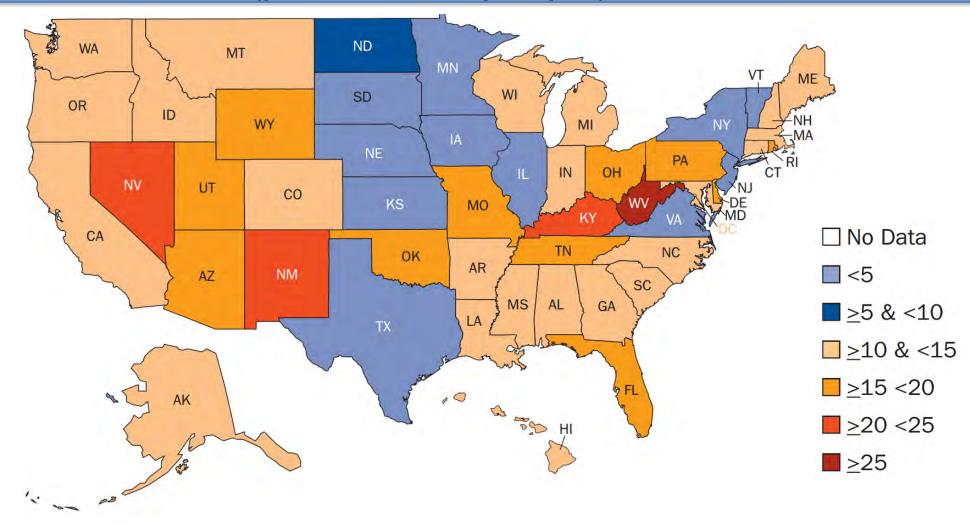
Drug Overdose Mortality Rates 1999 (per 100,000 people)





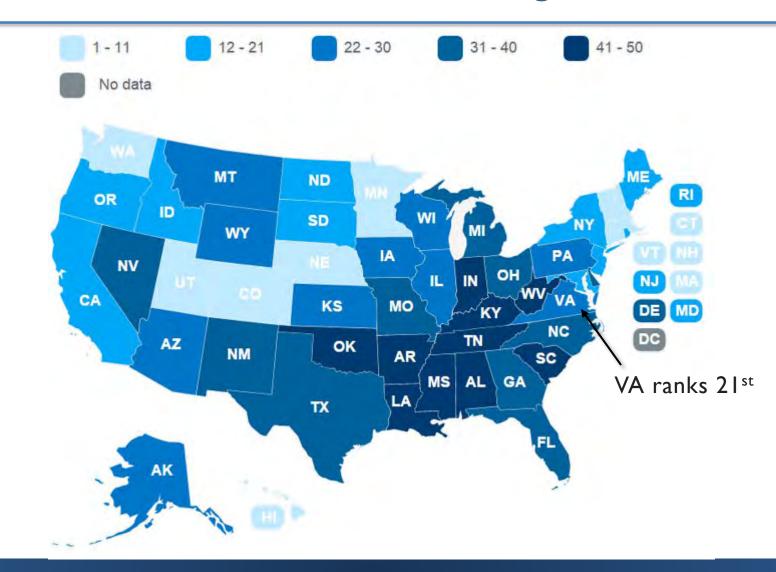
Drug Overdose Mortality Rates 2010 (per 100,000 people)







Overall State Rankings





Leading Causes of Death

Cause of Death	Galax City	Carroll County	Grayson County	Virginia (2013)	US (2013)
Heart Disease	127.1	181.9	167.9	155.9	169.8
Cancer	176.7	205.1	162.9	161.3	163.2
Chronic Lower Respiratory Disease	67.5	74.7	68.3	37.2	42.1
Accidents	45.8	39.5	44.1	33.0	39.4
Stroke	47.0	38.6	38.1	38.5	36.2
Alzheimer's Disease	15.2	25.6	53.6	19.6	23.5
Diabetes	42.3	27.2	24.0	18.3	21.2
Influenza and Pneumonia	25.3	11.7	19.2	16.8	15.9
Kidney Disease	30.2	27.7	15.3	18.0	13.2
Suicide	**	21.5	13.2	12.2	12.6
Liver Disease	42.8	8.8	13.5	8.9	10.2





Virginia State Health Rankings – 21st

• Strengths

- Low incidence of infectious disease
- Low percentage of children in poverty
- Low violent crime rate

Challenges

- Large disparity in health status by education level
- High prevalence of smoking
- Low per capita public health funding

• Highlights

- In the past year, drug deaths increased 13% from 8.4 to 9.5 per 100,000 population.
- In the past 2 years, smoking increased 3% from 19.0% to 19.5% of adults.
- In the past 10 years, preventable hospitalizations decreased 34% from 74.0 to 49.0 per 1,000 Medicare beneficiaries.
- In the past 20 years, cancer deaths decreased 11% from 212.8 to 189.2 per 100,000 population.
- Since 1990, cardiovascular deaths decreased 42% from 413.2 to 239.1 per 100,000 population.

Select Rankings

- 3 Children in Poverty
- 3 Violent Crime
- 6 Drug Deaths
- 10 Infectious Disease
- 18 Preventable Hospitalizations
- 23 Cancer Deaths
- 25 Cardiovascular Deaths
- 28 Public Health Funding
- 31 Smoking
- 33 Disparity in Health Status





Virginia State Health Rankings – 21st

Category	Rank
Children in Poverty	3
Violent Crime	3
Drug Deaths	6
Infectious Disease	10
Poor Mental Health Days	12
Immunization - Children	16
Dentists	16
Primary Care Physicians	17
Premature Death	18
Preventable Hospitalizations	18
Poor Physical Health Days	19
Binge Drinking	19
Air Pollution	20

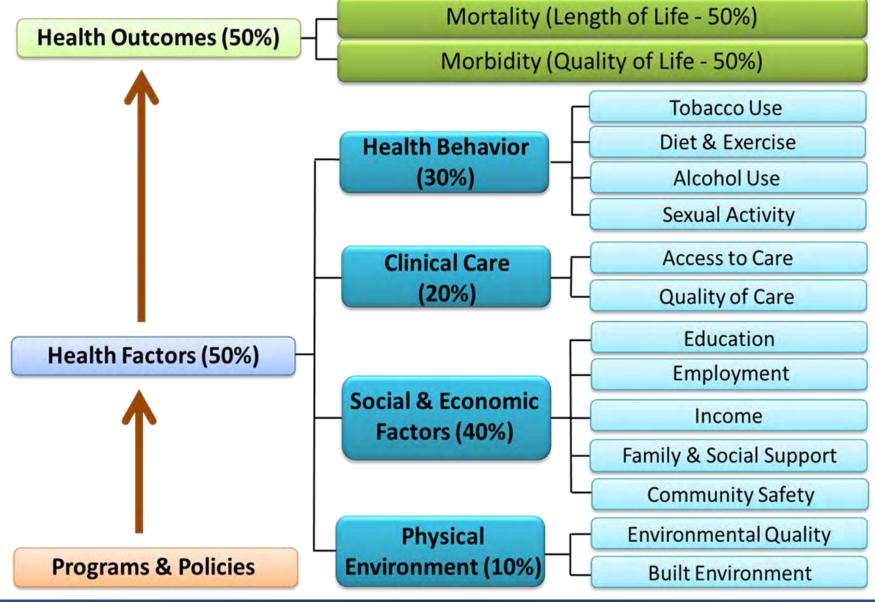
-Strengths

Category	Rank
Obesity	20
Diabetes	21
High School Graduation	22
Low Birthweight	23
Cancer Deaths	23
Lack of Health Insurance	24
Cardiovascular Deaths	25
Occupational Fatalities	27
Public Health Funding	28
Disparity in Health Status	33

Opportunities

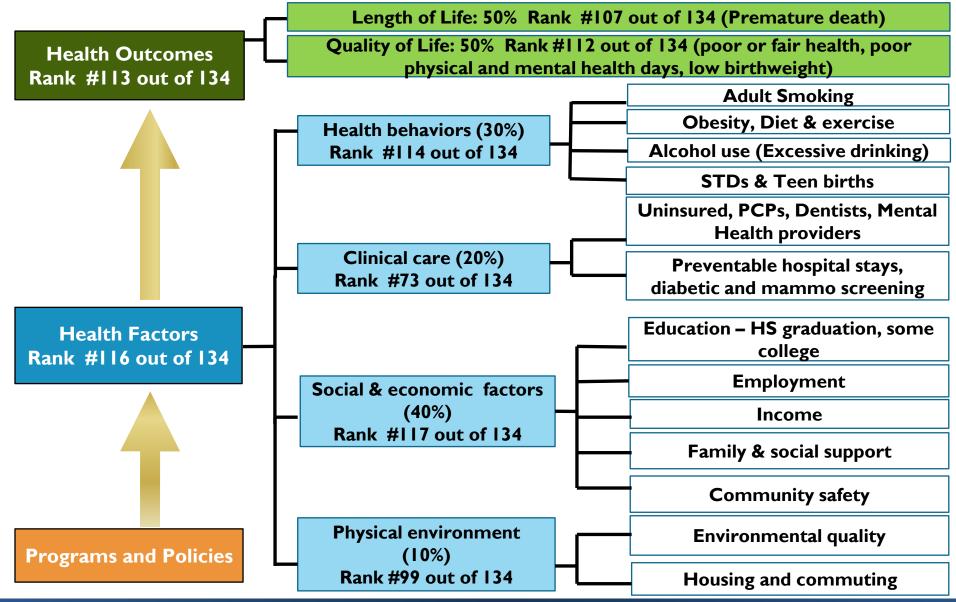
How do we rank for health?





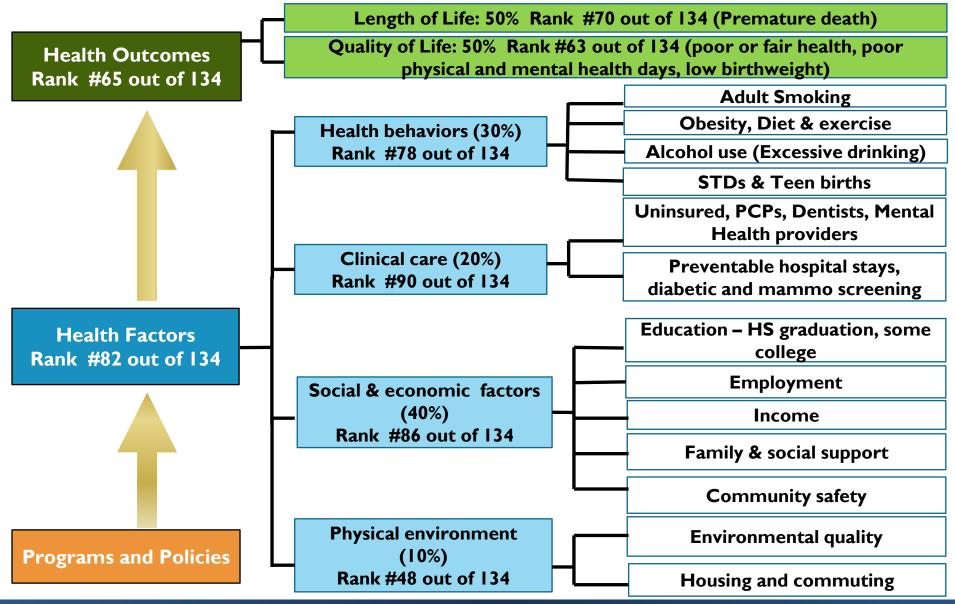
Galax City, VA Health Rankings





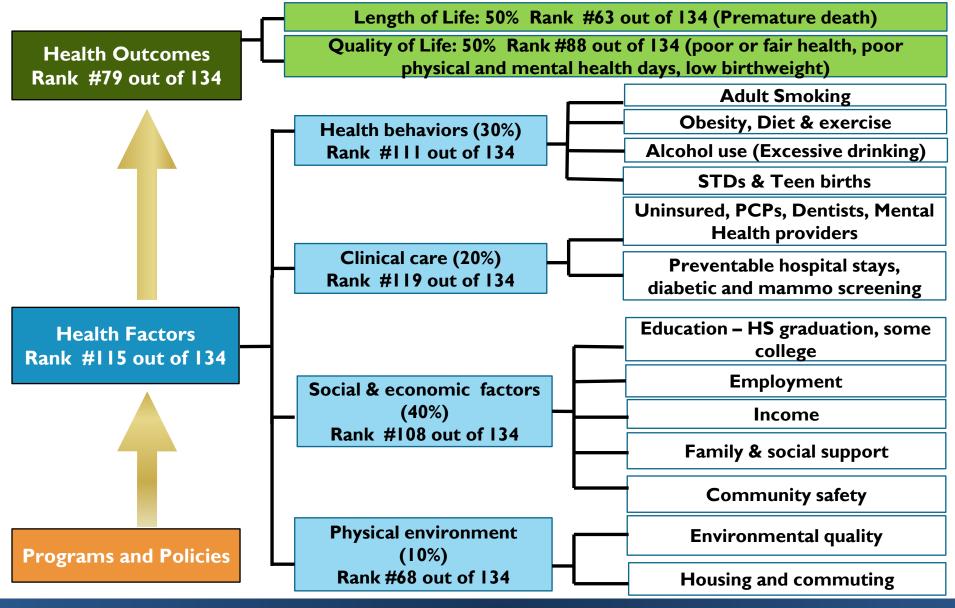
Carroll County, VA Health Rankings





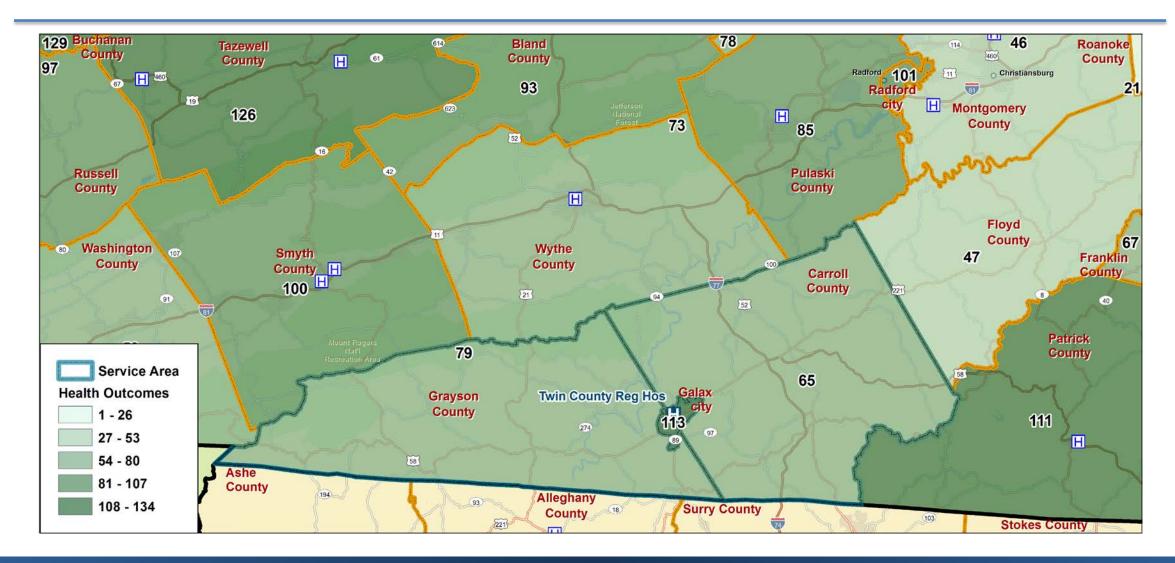
Grayson County, VA Health Rankings







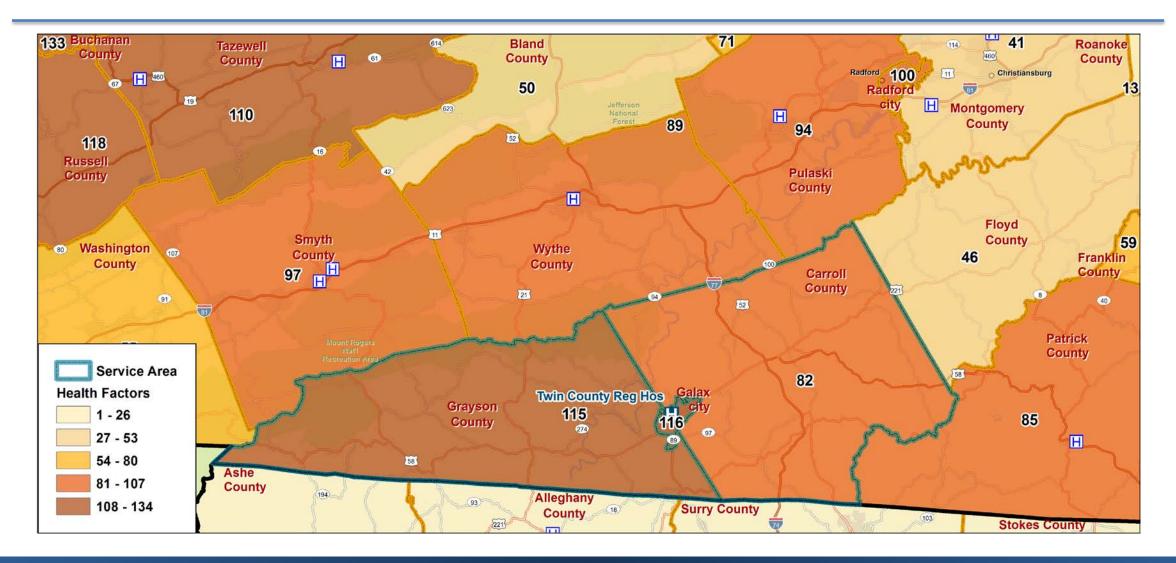
Health Outcome Rankings - Virginia







Health Factors Rankings - Virginia





Contiguous Counties Health Rankings & Measures



Galax City	Carroll	Grayson	Floyd	Patrick	Pulaski	Smyth	Wythe
114	73	97	46	98	89	98	81
113	65	79	47	111	85	100	73
107	70	63	51	122	94	102	64
112	63	88	44	95	65	100	75
116	82	115	46	85	94	97	89
114	78	111	54	64	91	86	74
73	90	119	68	93	106	67	95
117	86	108	39	100	87	104	91
99	48	68	111	33	54	73	106
9.7%	6.5%	8.1%	7.5%	9.2%	8.6%	9.8%	7.9%
21%	20%	21%	19%	20%	20%	21%	20%
29%	31%	33%	27%	31%	32%	27%	30%
26%	26%	34%	23%	27%	26%	27%	27%
93	42	42	30	31	50	57	48
12%	12%	12%	10%	12%	11%	11%	11%
18%	19%	18%	18%	18%	15%	15%	16%
N/A	996:1	3,032:1	3,106:1	6,123:1	1,725:1	1,862:1	1,834:1
88%	87%	83%	88%	86%	77%	87%	81%
100%	15%	40%	36%	4%	37%	29%	8%
14%	15%	14%	15%	14%	16%	15%	15%
	City 114 113 107 112 116 114 73 117 99 9.7% 21% 29% 26% 93 12% 18% N/A 88% 100%	City Carroll 114 73 113 65 107 70 112 63 116 82 114 78 73 90 117 86 99 48 9.7% 6.5% 21% 20% 29% 31% 26% 26% 93 42 12% 12% 18% 19% N/A 996:1 88% 87% 100% 15%	City Carroll Grayson 114 73 97 113 65 79 107 70 63 112 63 88 116 82 115 114 78 111 73 90 119 117 86 108 99 48 68 9.7% 6.5% 8.1% 21% 20% 21% 29% 31% 33% 26% 26% 34% 93 42 42 12% 12% 12% 18% 19% 18% N/A 996:1 3,032:1 88% 87% 83% 100% 15% 40%	City Carroll Grayson Floyd 114 73 97 46 113 65 79 47 107 70 63 51 112 63 88 44 116 82 115 46 114 78 111 54 73 90 119 68 117 86 108 39 99 48 68 111 9.7% 6.5% 8.1% 7.5% 21% 20% 21% 19% 29% 31% 33% 27% 26% 26% 34% 23% 93 42 42 30 12% 12% 10% 18% 19% 18% 18% N/A 996:1 3,032:1 3,106:1 88% 87% 83% 88% 100% 15% 40% 36% <td>City Carroll Grayson Floyd Patrick 114 73 97 46 98 113 65 79 47 111 107 70 63 51 122 112 63 88 44 95 116 82 115 46 85 114 78 111 54 64 73 90 119 68 93 117 86 108 39 100 99 48 68 111 33 9.7% 6.5% 8.1% 7.5% 9.2% 21% 20% 21% 19% 20% 21% 20% 21% 19% 20% 29% 31% 33% 27% 31% 26% 26% 34% 23% 27% 93 42 42 30 31 12% 12% 10%</td> <td>City Carroll Grayson Floyd Patrick Pulaski 114 73 97 46 98 89 113 65 79 47 111 85 107 70 63 51 122 94 112 63 88 44 95 65 116 82 115 46 85 94 114 78 111 54 64 91 73 90 119 68 93 106 117 86 108 39 100 87 99 48 68 111 33 54 9.7% 6.5% 8.1% 7.5% 9.2% 8.6% 21% 20% 21% 19% 20% 20% 29% 31% 33% 27% 31% 32% 26% 26% 34% 23% 27% 26% 93<td>City Carroll Grayson Floyd Patrick Pulaski Smyth 114 73 97 46 98 89 98 113 65 79 47 111 85 100 107 70 63 51 122 94 102 112 63 88 44 95 65 100 116 82 115 46 85 94 97 114 78 111 54 64 91 86 73 90 119 68 93 106 67 117 86 108 39 100 87 104 99 48 68 111 33 54 73 9.7% 6.5% 8.1% 7.5% 9.2% 8.6% 9.8% 21% 20% 21% 19% 20% 20% 21% 29% 31% 33%<</td></td>	City Carroll Grayson Floyd Patrick 114 73 97 46 98 113 65 79 47 111 107 70 63 51 122 112 63 88 44 95 116 82 115 46 85 114 78 111 54 64 73 90 119 68 93 117 86 108 39 100 99 48 68 111 33 9.7% 6.5% 8.1% 7.5% 9.2% 21% 20% 21% 19% 20% 21% 20% 21% 19% 20% 29% 31% 33% 27% 31% 26% 26% 34% 23% 27% 93 42 42 30 31 12% 12% 10%	City Carroll Grayson Floyd Patrick Pulaski 114 73 97 46 98 89 113 65 79 47 111 85 107 70 63 51 122 94 112 63 88 44 95 65 116 82 115 46 85 94 114 78 111 54 64 91 73 90 119 68 93 106 117 86 108 39 100 87 99 48 68 111 33 54 9.7% 6.5% 8.1% 7.5% 9.2% 8.6% 21% 20% 21% 19% 20% 20% 29% 31% 33% 27% 31% 32% 26% 26% 34% 23% 27% 26% 93 <td>City Carroll Grayson Floyd Patrick Pulaski Smyth 114 73 97 46 98 89 98 113 65 79 47 111 85 100 107 70 63 51 122 94 102 112 63 88 44 95 65 100 116 82 115 46 85 94 97 114 78 111 54 64 91 86 73 90 119 68 93 106 67 117 86 108 39 100 87 104 99 48 68 111 33 54 73 9.7% 6.5% 8.1% 7.5% 9.2% 8.6% 9.8% 21% 20% 21% 19% 20% 20% 21% 29% 31% 33%<</td>	City Carroll Grayson Floyd Patrick Pulaski Smyth 114 73 97 46 98 89 98 113 65 79 47 111 85 100 107 70 63 51 122 94 102 112 63 88 44 95 65 100 116 82 115 46 85 94 97 114 78 111 54 64 91 86 73 90 119 68 93 106 67 117 86 108 39 100 87 104 99 48 68 111 33 54 73 9.7% 6.5% 8.1% 7.5% 9.2% 8.6% 9.8% 21% 20% 21% 19% 20% 20% 21% 29% 31% 33%<

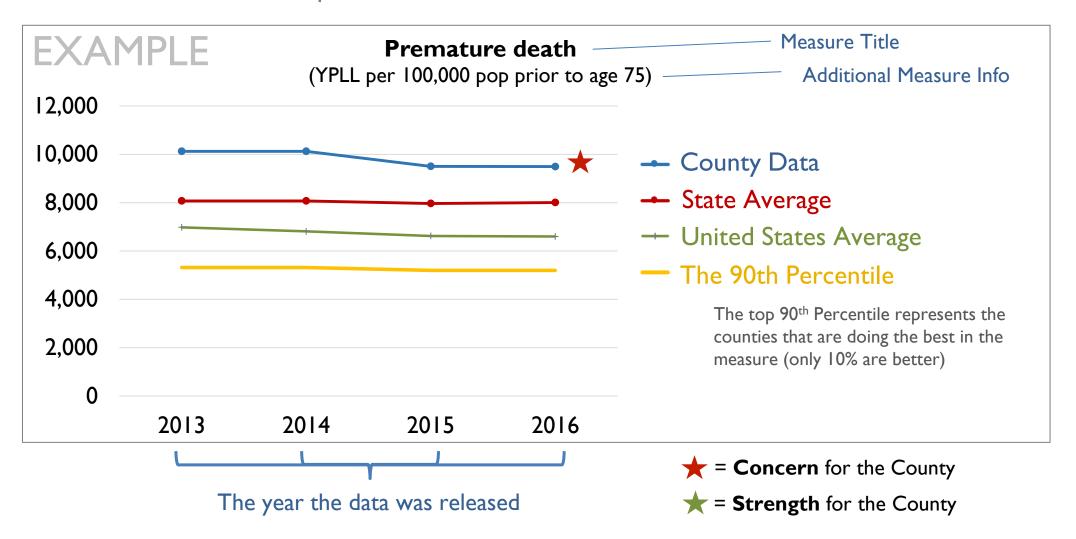
Ranks out of 134 counties



Health Measure Trend Charts



A brief explanation of the health measure trend charts





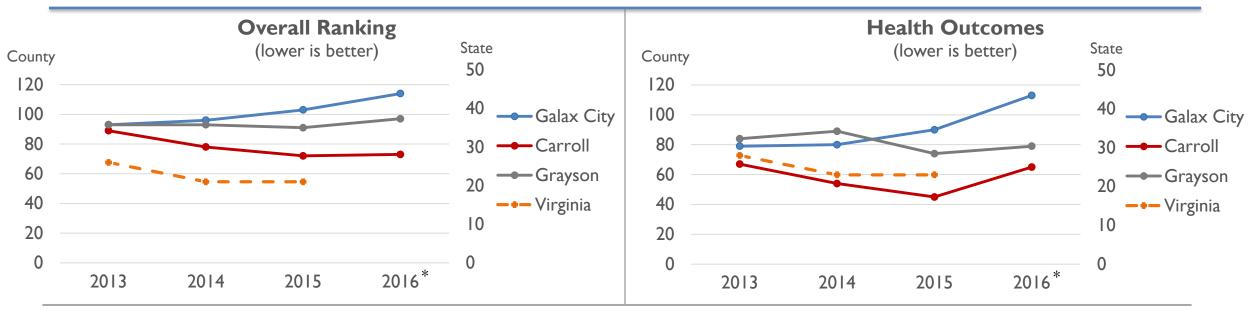
County Health 2016 Data

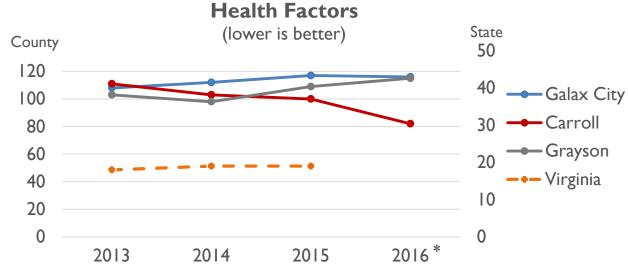
- The 2016 measures that were changed by County Health Rankings have a asterisk next to the year in the chart.
- Prior to the 2016 County Health Rankings, up to seven survey years of landline only BRFSS data were
 aggregated to produce county estimates. However, even with multiple years of data, these did not
 provide reliable estimates for all counties, particularly those with smaller respondent samples.
- For the 2016 County Health Rankings, the CDC produced 2014 county estimates using single-year 2014 BRFSS data and a multilevel modeling approach based on respondent answers and their age, sex and race/ethnicity, combined with county-level poverty and county and state level contextual effects¹. To produce estimates for those counties where there was no or limited data, the modeling approach borrowed information from the entire BRFSS sample as well as Census Vintage 2014 population estimates. CDC used a parametric bootstrapping method to produce standard errors and confidence intervals for those point estimates. This estimation methodology was validated for all U.S. counties, including those with no or small (<50 respondents) samples.



Overall Rankings



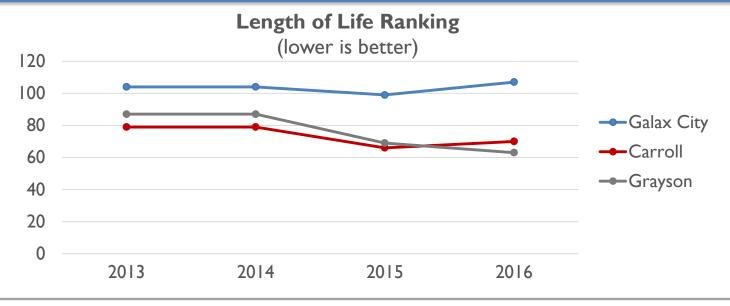




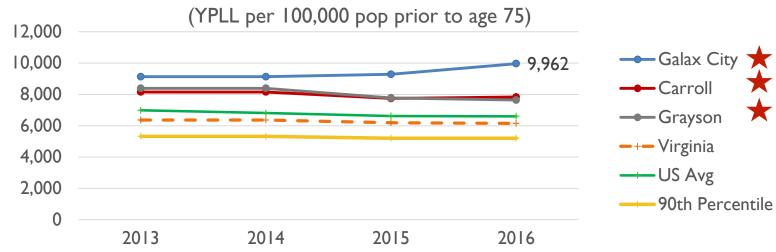


Length of Life Rank





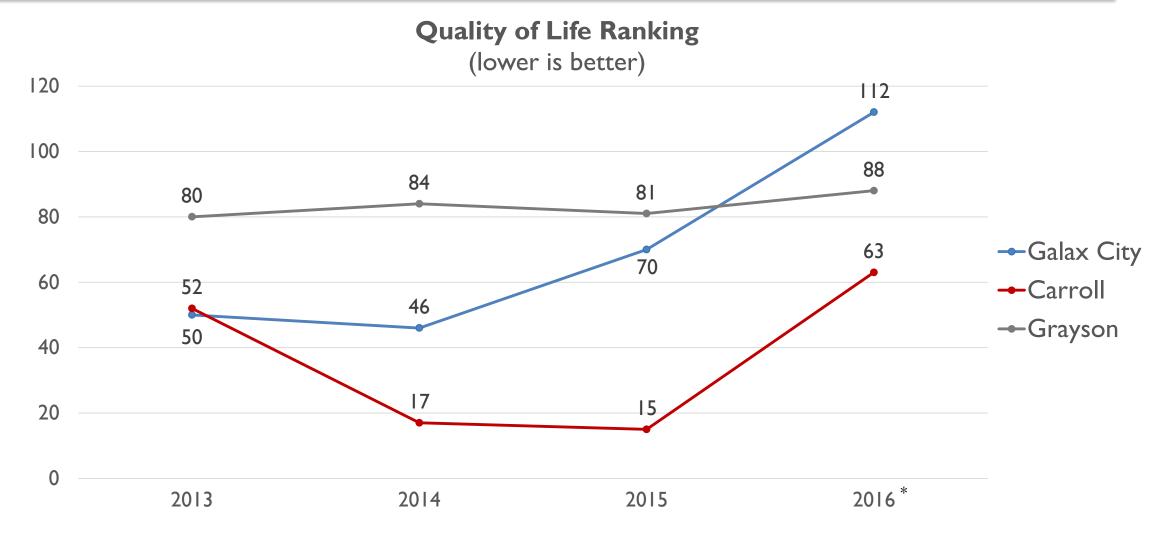
Premature death





Quality of Life Ranking

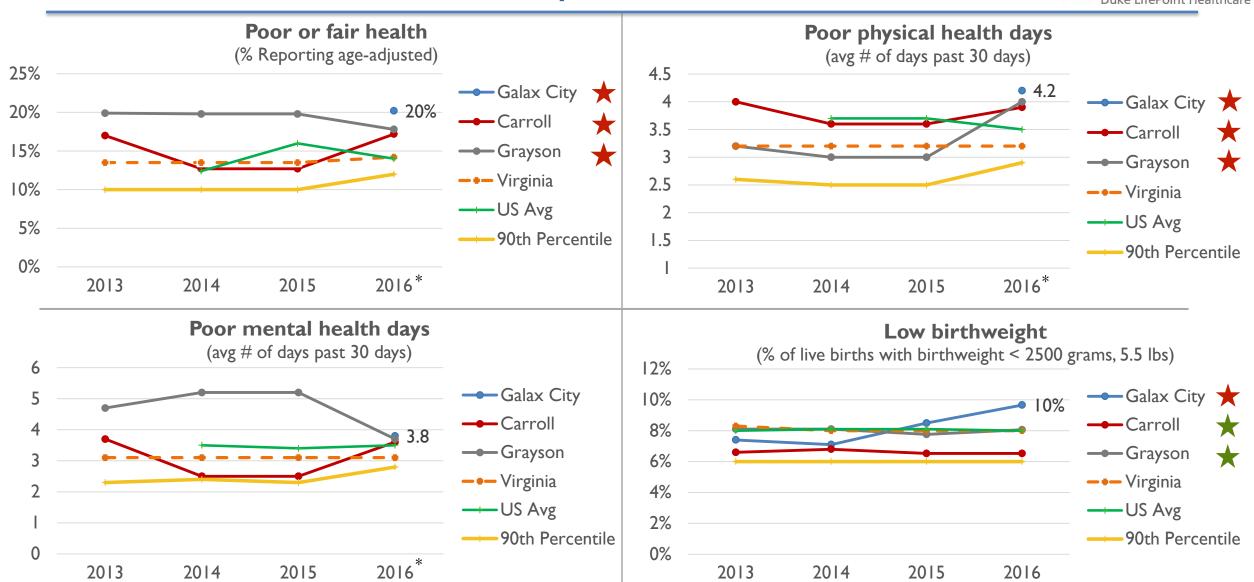






Quality of Life Rank



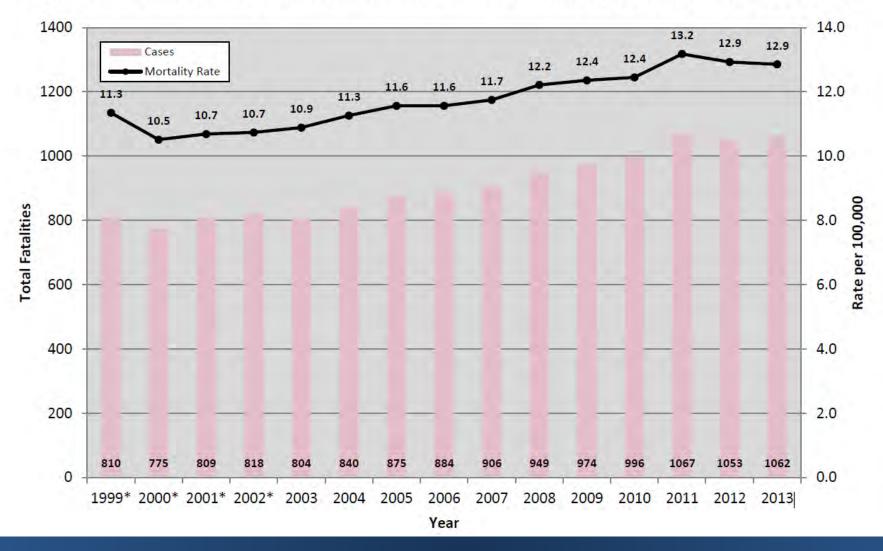




Suicide Rates Virginia



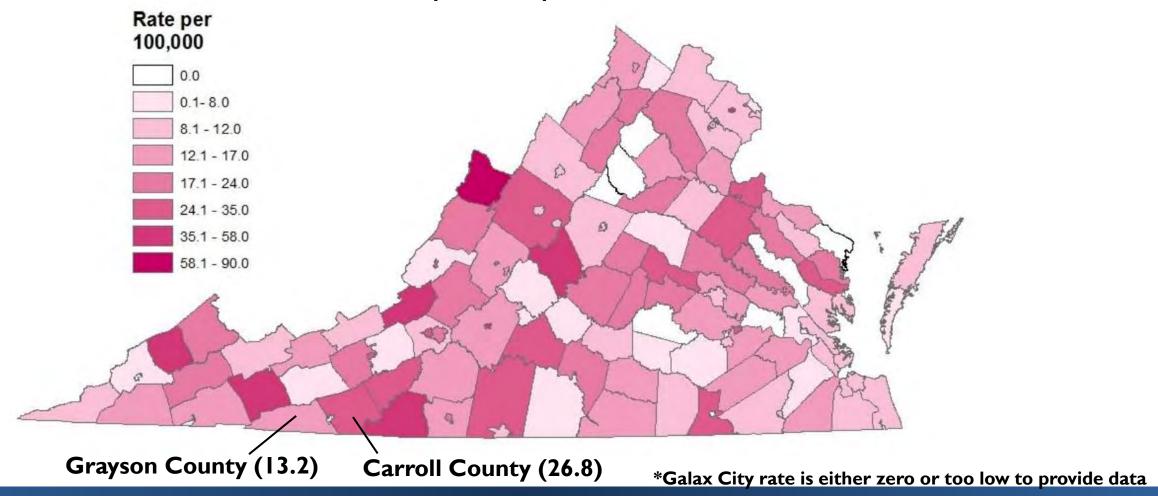
Figure 2.21 Total Number and Rate of OCME Suicide Deaths by Year of Death, 1999-2013





Suicide Rates Virginia

Suicide Rate by Locality of Residence, 2013



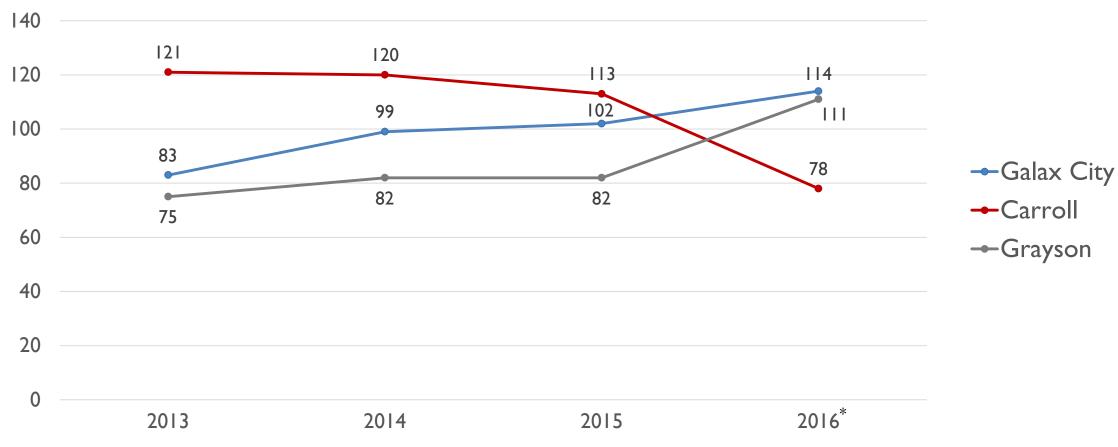


Health Behaviors Ranking



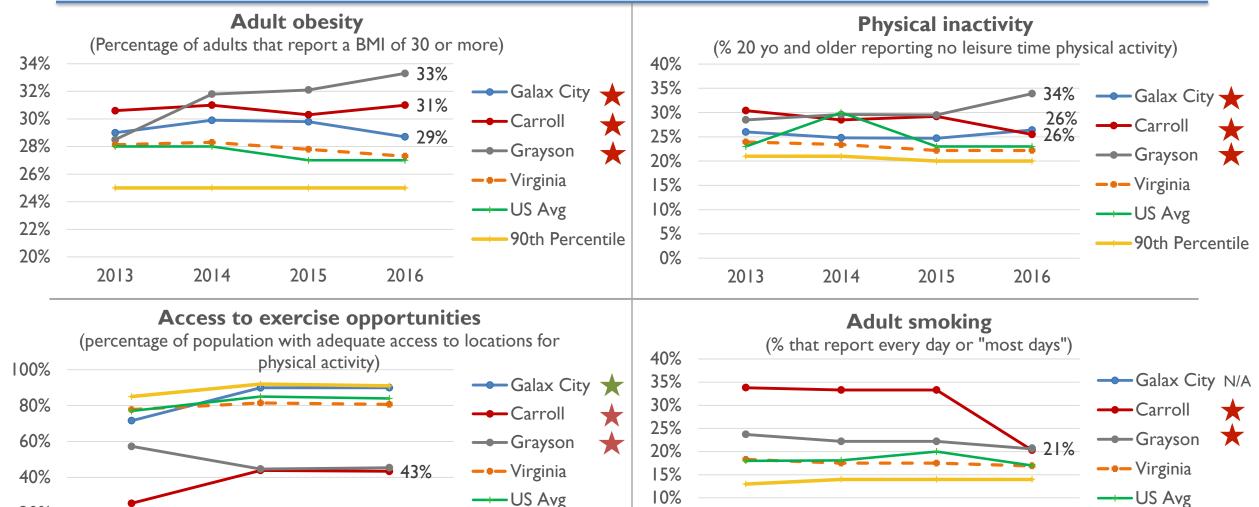


(lower is better)



Health Behaviors





5%

0%

2013

2014

2015

-90th Percentile



2016*

90th Percentile

2016

2015

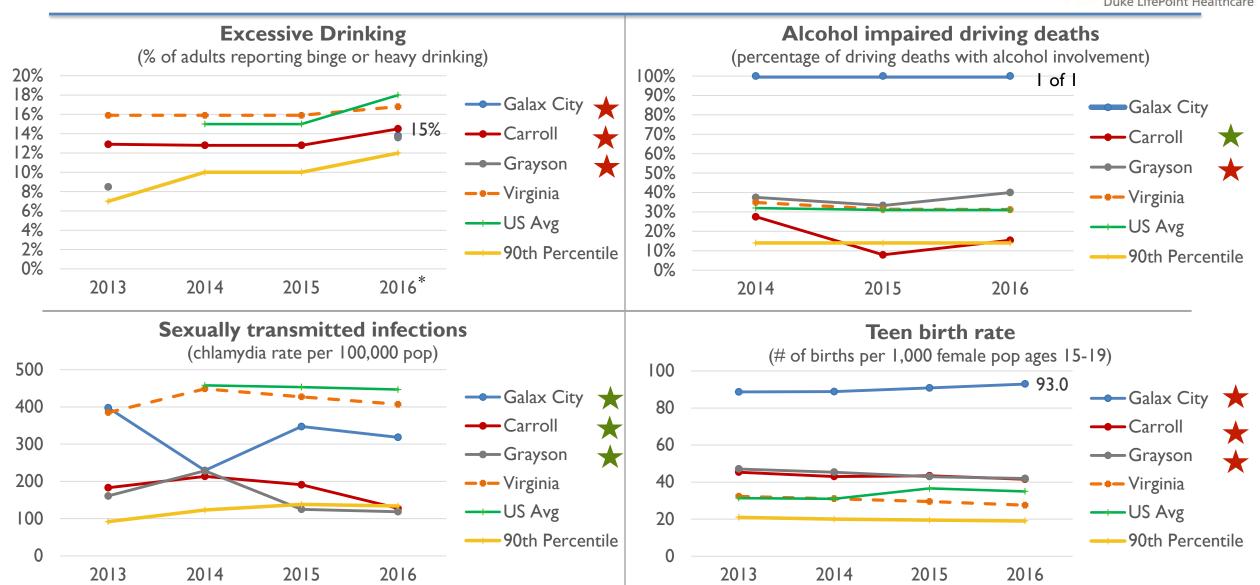
20%

0%

2014

Health Behaviors

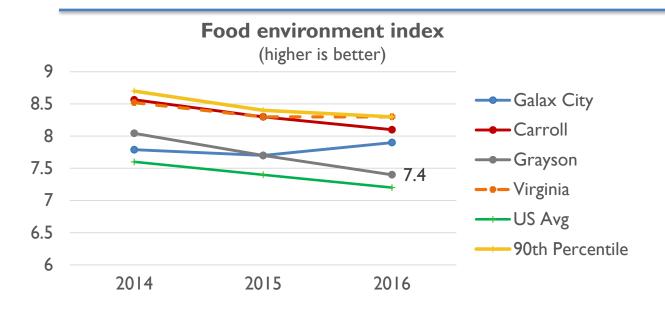




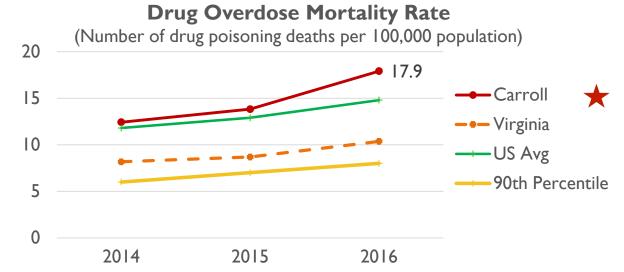


Health Behaviors





The food environment index is a comprised of % of the population with limited access to healthy foods and % of the population with food insecurity. Limited access to foods estimates the % of the population who are low income and do not live close to a grocery store. Food insecurity is the % of the population who did not have access to a reliable source of food during the past year.

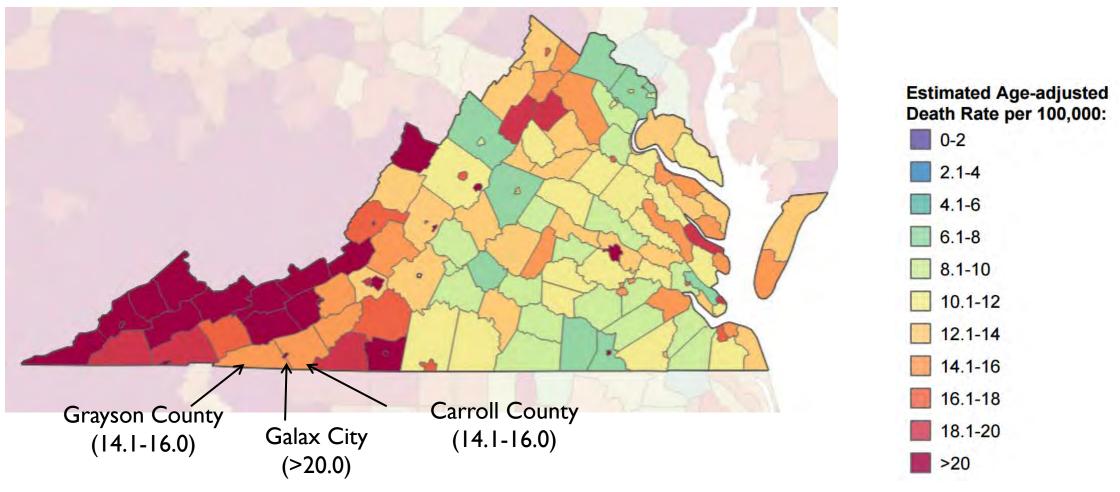




Virginia Drug Overdose Deaths by County





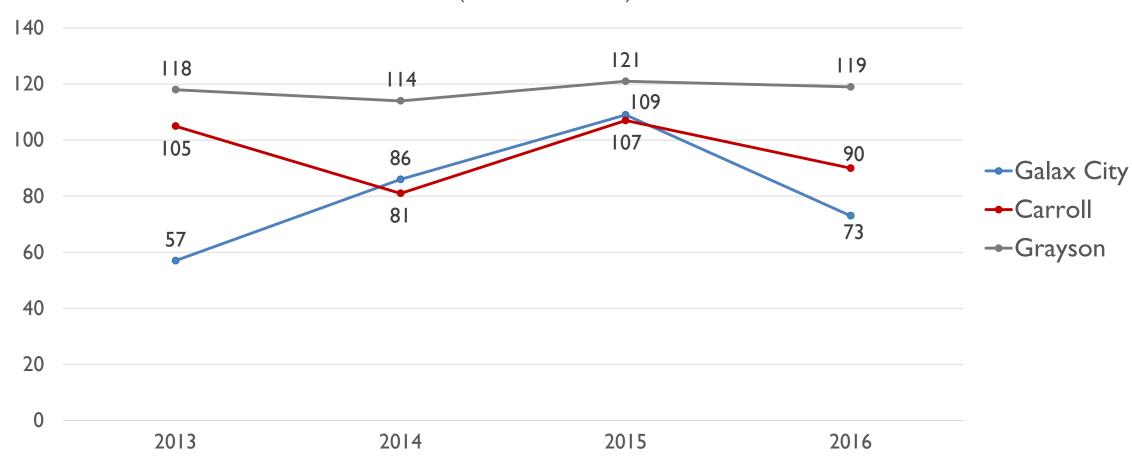


Clinical Care Rank



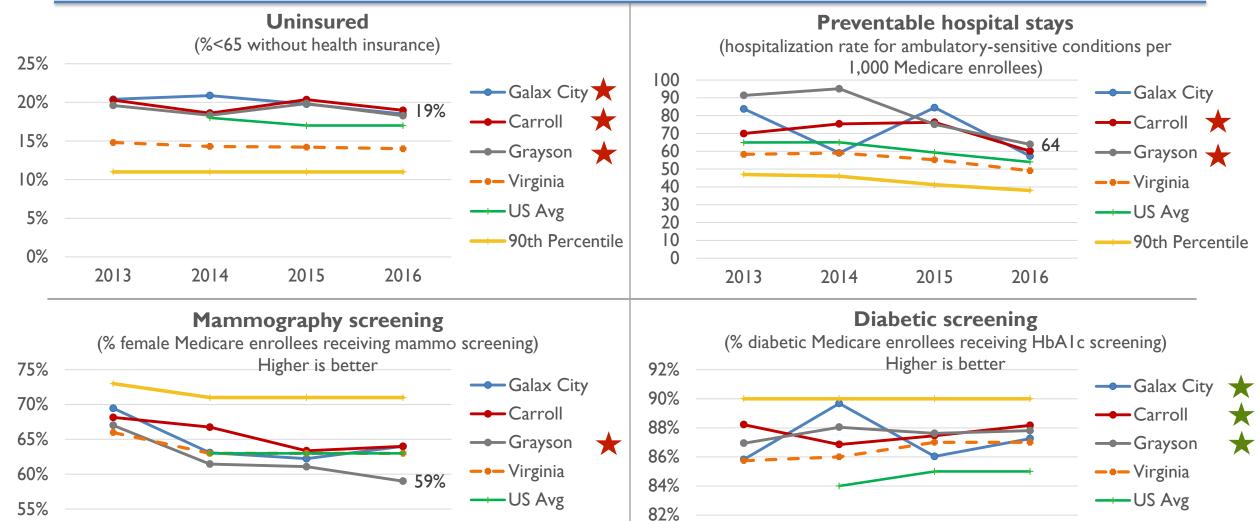
Clinical Care Rank

(lower is better)



Clinical Care





80%

2013

2014

2015

2016

-90th Percentile

90th Percentile

50%

2013

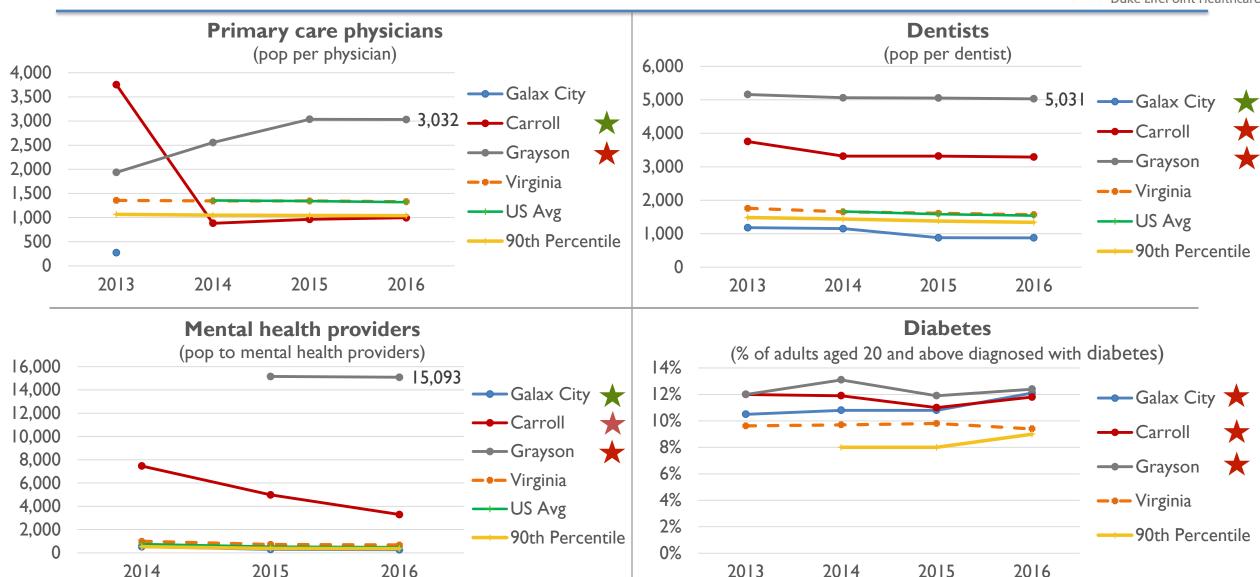
2014

2015

2016

Clinical Care





^{*} Mental health providers include psychiatrists, psychologists, licensed clinical social workers, counselors, and advanced practice nurses specializing in mental health care.

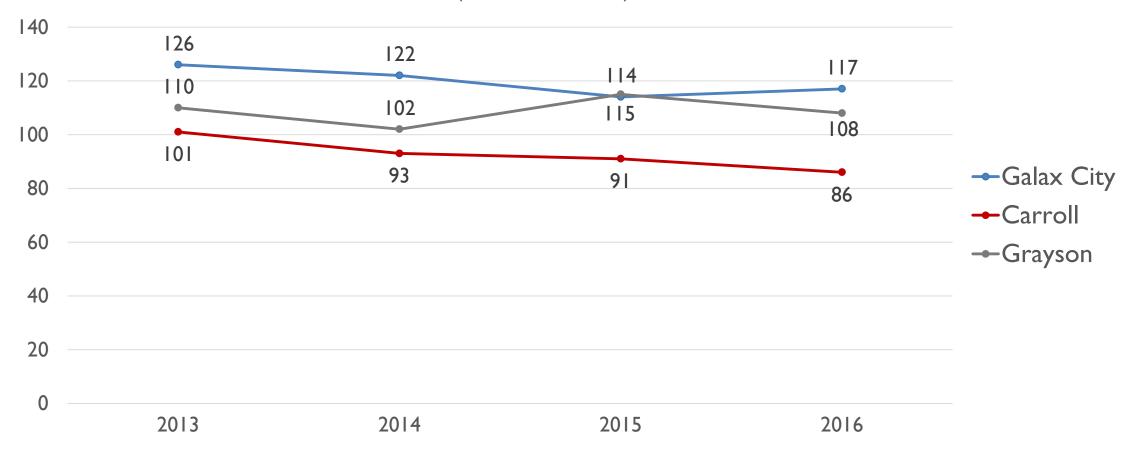


Social & Economic Factors Rank



Social and Economic Factors Ranking

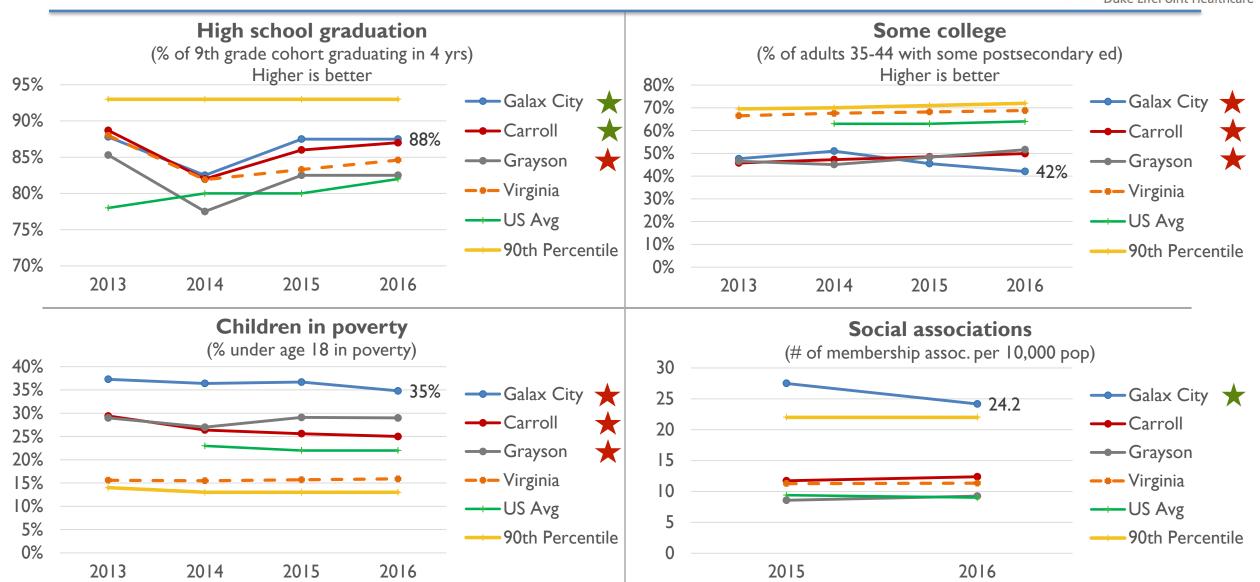
(lower is better)





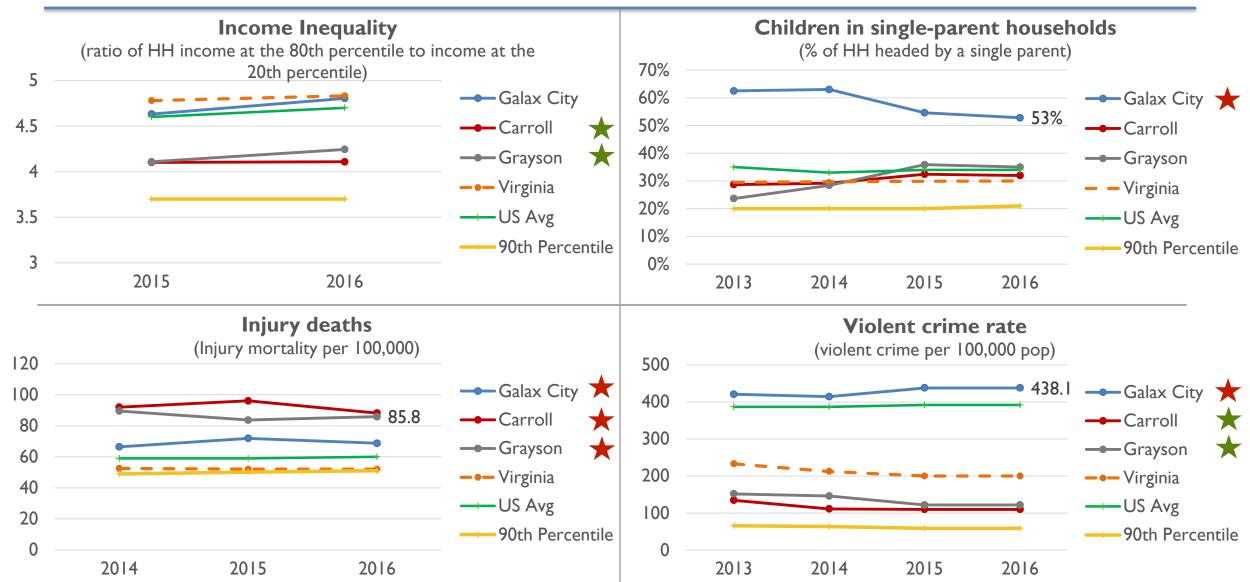
Social & Economic Factors





Social & Economic Factors



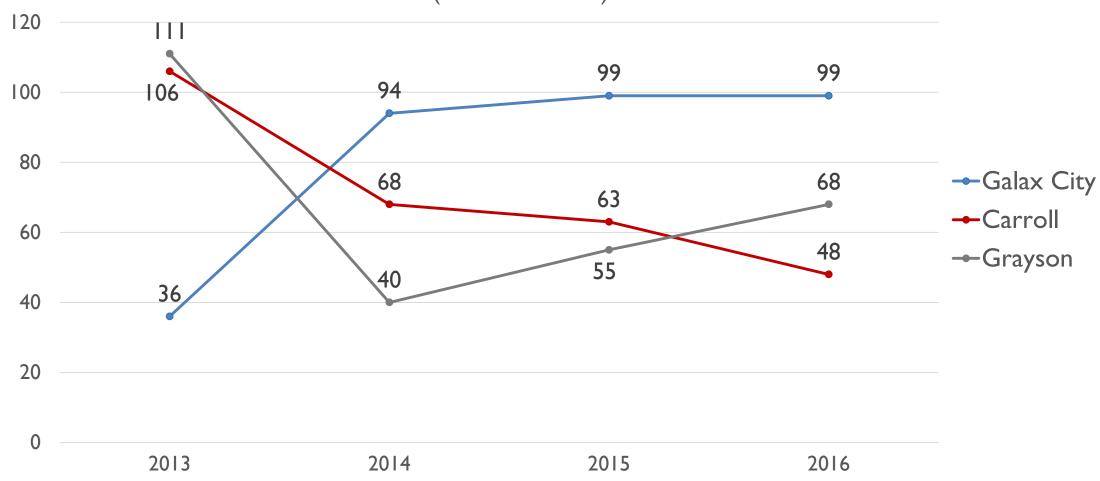


Physical Environment Rank



Physical Environment Ranking

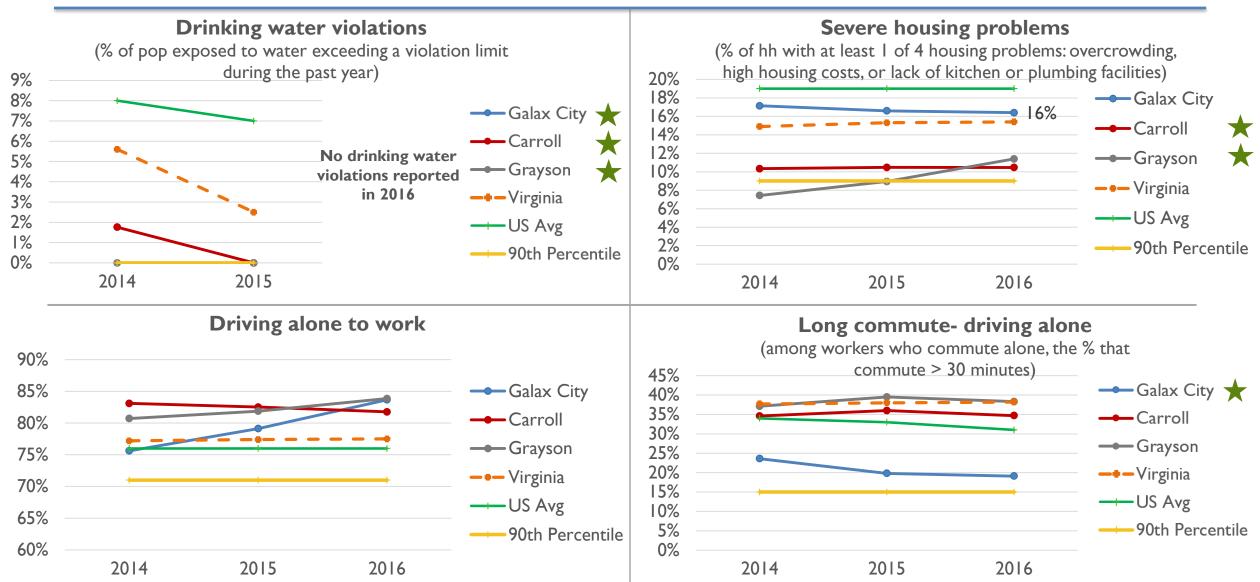
(lower is better)





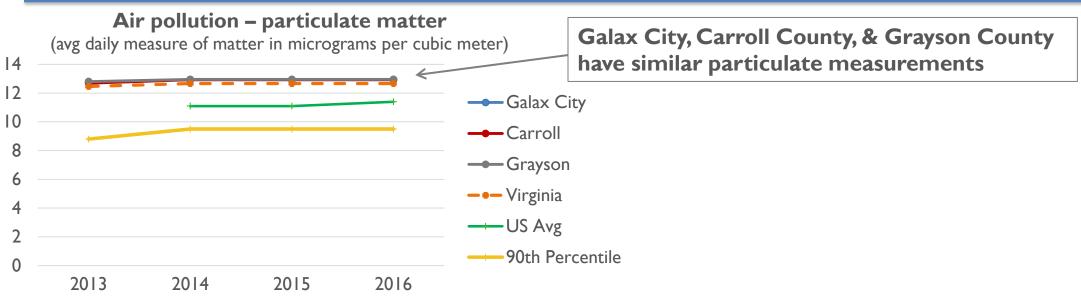
Physical Environment





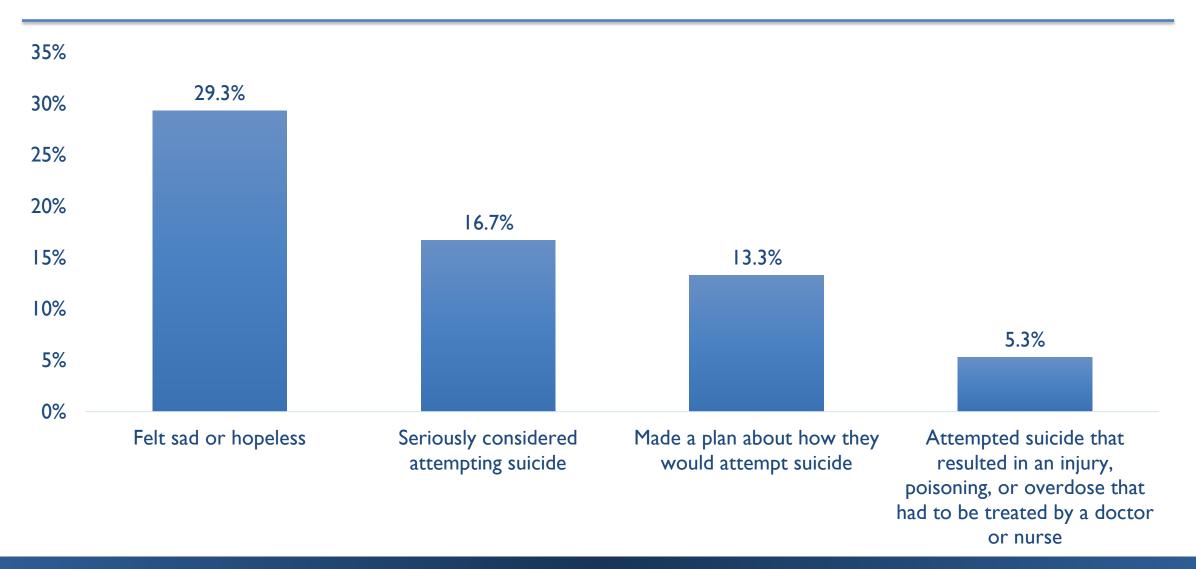
Physical Environment







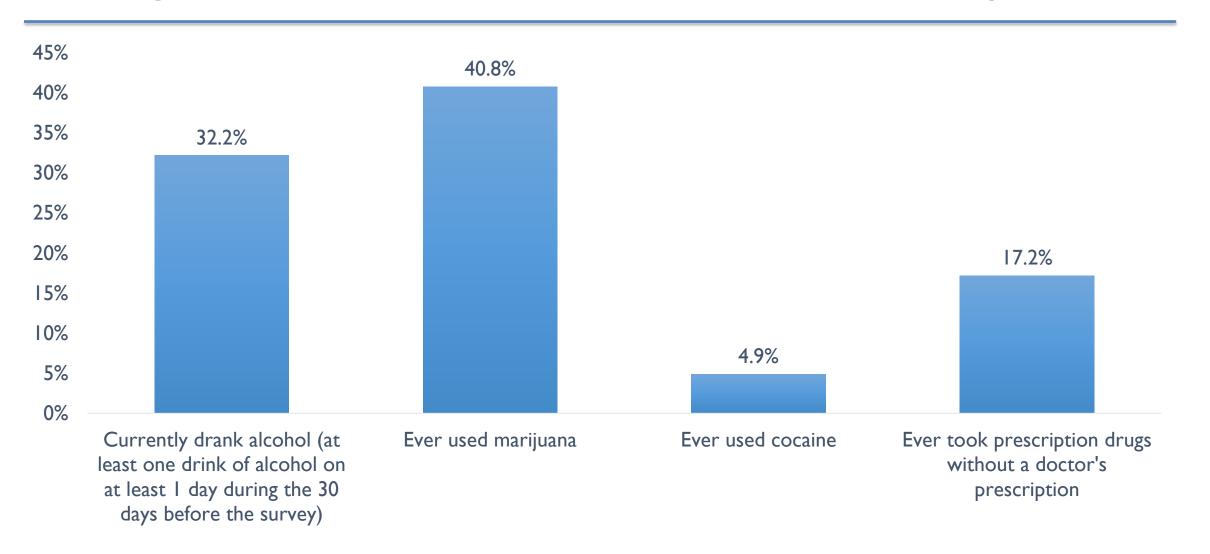
High School VA: Youth Risk Behavior Surveillance System Sy





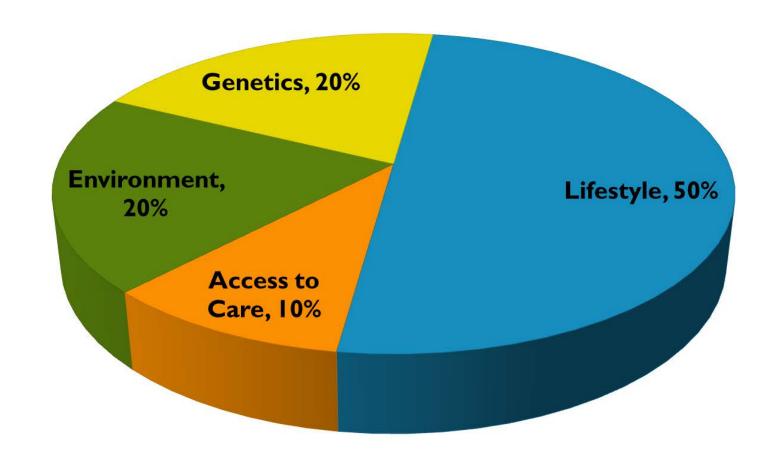


High School VA: Youth Risk Behavior Surveillance System Sy





Major Impacts on Healthiness





Community Assets

- Pathways to Health
- Remote Area Medical but trying to get them both to come closer to Galax
- Mt. Rogers Youth program mentors
- Robust wellness centers that promote exercise in Galax and Carroll Co
- Small town and ability to network; no silos
- Rooftop
- Spirit of collaboration in the area, example hospital and long-term care
- Even remote areas feel included in the community
- Psych is available at the FQHC in eastern Carroll County
- Free Clinics and FQHC sliding scale
- Large number of home health agencies
- Lots of faith-based programs
- Nurses at the hospital are providing care in their own congregations





Mission, Vision, & Values

- Mission: "To promote, preserve, and restore the health of our community."
 - Twin County Regional Healthcare (TCRH) is a regional leader in providing quality, affordable health care services. More than a hospital, TCRH is an organized health care delivery system dedicated to meeting community needs: providing care to people of all ages, at home and at work, to help them stay healthy or guide them through recovery. TCRH continually develops and improves services in response to community need while holding the values that are important to all of us compassion, respect, community, teamwork, service excellence, progress and innovation.
- <u>Vision</u>: To provide a source that can lead you to emotional, spiritual and physical well being. You can look to us for the information and guidance you need to achieve the well-being you seek.

• <u>Values</u>: Service, quality, safety, people, cost effectiveness and growth.





Creating a Culture of Health



Sunday, October 21, 2018

Carroll County Ranks #1 for

County Health Rankings Department, ranking #1 in the state of representatives County Regional Hospital, declined dramatically. working with community

The rankings for the 2018 leaders, the County Health Rer were released vesterday not-for-profits, business imp Carroll County and industry, government Virginia. Nationally, citizens, has significantly that Carroll County has made changed the health status rela tremendous progress in of the community. The the creating a sense of health rates of obesity, diabetes, beh for the community. Twin suicide and smoking have of a exp in I

Galax Gaze

Sunday, October 21, 2018

Galax City Ranks #1 for Hea

The rankings for the 2018 County Health Rankings were released yesterday with Galax City ranking #1 in the state of Virginia. Nationally, Galax City has made tremendous progress in creating a sense of health for the community. Twin County Regional Hospital, working with community leaders, the

County Health Rer Department. not-for-profits, business and industry, government representatives and citizens, has significantly that changed the health status of the community. The rates of obesity, diabetes, suicide and smoking have ofa declined dramatically. exp

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Grayson Ci

Sunday, October 21, 2018

Grayson County Ranks #1 fo

The rankings for the 2018 County Health Rankings were released vesterday with Grayson County ranking #1 in the state of Virginia. Nationally, Grayson County has made tremendous progress in creating a sense of health for the community. Twin County Regional Hospital, working with community

leaders, the County Health Rer Department, not-for-profits, business and industry, government representatives and citizens, has significantly changed the health status of the community. The rates of obesity, diabetes, suicide and smoking have ofa declined dramatically. exp

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"If there is hope in the future,
there is power in the present." – John Maxwell



Issues from the 2014 CHNA

Twin County Regional Hospital CHNA





Top Health Issues from 2014 CHNA

- Obesity
- Chronic diseases
- Smoking
- Lifestyle behavior and education
- Substance abuse and mental health
- Diabetes
- Socio-economic issues
- Teen pregnancy
- Aging
- Access to care





Community Health Initiatives

- Health Education
 - Early heart attack
 - Stroke
 - Colon Cancer
 - Exercise and Nutrition
 - Lactation, breast feeding
- Screenings
 - Blood pressure

- Health Fairs
- Health Information Booths
- Support community organizations and activities
 - Schools
 - Free Clinic
 - Races walks, 5K, 10Ks
 - Prevention Coalition
 - Backpacks Unite



Community Benefit Report 2014 (2015 in progress)



2014 REPORT TO THE COMMUNITY



Jon Applebaum, CEO Twin County Regional Healthcare

At Twin County Regional Healthcare, our goal is to deliver the best healthcare available in the Twin County region, as we seek to make our community healthier. With the help of dedicated physicians, employees, volunteers and board members, along with your support and encouragement, we continue our passionate pursuit of excellence.

Delivering quality healthcare close to home is the single most important contribution we make. But there are

many other ways we make a positive impact on the communities we serve. Here are a few of the ways we are making a difference.



Contributing to our local tax base

Last year, Twin County Regional Healthcare paid \$1,410,057 in taxes which helped support our city, county and state. This included sales taxes as well as property taxes. These dollars help maintain local schools, fund the development of roads, recruit business and industry, and provide other similar services vital to support and sustain a thriving economy.

Helping those in need

Twin County Regional Healthcare is committed to ensuring the delivery of needed healthcare to all members of the community, regardless of ability to pay. Last year, the cost to Twin County was more than \$4 million to provide services for those without the ability to pay for their care.

Adding new physicians

- \$1.4 million in taxes
- \$4 million in charity care
- \$5.2 million in capital improvements
- 569 employees
- \$32 million payroll
- Community Outreach
 - Support groups
 - Classes
 - Contribution
 - Participation





Health Events from 2015

Health Events	·	Twin County Regional Employee Hours
61	1,472	278



Exercise Instructions

Twin County Regional Hospital CHNA





Exercise prioritizing significant health needs

- Please write down the community's top three significant health needs from your own personal perspective, but in context to the whole community on the sticky notes provided. One concern per sticky note.
- Once you have written down your Top 3, please come up and stick them on the white paper on the wall.
- Criteria for prioritization:
 - the burden, scope, severity, or urgency of the health need
 - the estimated feasibility and effectiveness of possible interventions
 - the importance and assets the community places on addressing the need





Break

15 Minutes



Exercise 2

- You will be working with your table.
- On your table is a worksheet. We need three volunteers:
 - I. Scribe official record keeper
 - 2. Reporter will report the group's discussion
 - 3. Facilitator keep the group on track and on time



Exercise 2

- Significant Community Health Need
- Top 3 goals and 2 actions relative to the issue
- Create an action plan with resources needed for each goal



Significant Health Needs 2016

- Obesity
- Mental Health/Substance Abuse
- Childhood trauma/ Adverse Childhood experiences
- Socioeconomic issues
- Chronic Diseases and Aging
- Healthy Lifestyle





Thank you!

- Next Steps
 - Implementation Plan
 - Community Health Report