

# Collier County Health Department

A N N U A L R E P O R T 2 0 0 9

MISSION: PROMOTE, PROTECT AND IMPROVE THE HEALTH OF ALL PEOPLE IN COLLIER COUNTY



### **A Message from the Director...**

It is a pleasure to present you with a copy of the Collier County Health Department's Annual Report for 2009. This report provides a brief overview of the services we provided last year in our efforts to preserve and promote public health in our county.

Public health protects all of us through programs such as communicable disease control, epidemiology, immunizations and health education. This was demonstrated in the past year by our work to prevent morbidity and mortality from H1N1 disease. With the assistance of our community partners, nearly 1/3 of Collier's population, approximately 110,000 people were immunized against H1N1. While we had many cases of disease, only 12 cases required hospitalization, and no deaths were attributed to Collier County. We are very grateful to the many volunteers, county staff and our own employees who worked tirelessly for many months on H1N1 activities.

As we go to print, we are pleased to see the University of Wisconsin County Health Rankings listed Collier as the healthiest county in the state of Florida. The rankings indicate Collier's rates of disease and death are lower than every other county in the state of Florida.

Should you have any questions or would like a speaker to address a community group regarding one or more of our programs, please contact us at 252-8220.

Sincerely yours,

*Joan M. Colfer, M.D., M.P.H.*

Joan M. Colfer, M.D., M.P.H.

Director





*Caring...Committed...Helping...Dedicated*  
*To the Wellness of Our Community*



**OUR MISSION**  
Promote, protect and improve the  
health of all people in Collier County

**OUR VISION**  
A healthier future for  
the people of Collier County



## OUR VALUES

**Excellence:** We achieve and maintain quality results and outcomes through continuous performance improvement and learning.

**Commitment to Service:** We dedicate ourselves to provide services unconditionally and without partiality.

**Accountability:** We take full responsibility for our behavior and performance.

**Empowerment:** We create a culture that encourages people to exercise their judgment and initiative in pursuit of organizational goals.

**Integrity:** Our guide for actions--which incorporates our commitment to honesty, fairness, loyalty and trustworthiness--is in the best interests of our customers and employees.

**Respect:** We recognize and honor the contributions of one another in our daily activities and create an environment where diversity is appreciated and encouraged.

**Teamwork:** We encourage active collaboration to solve problems, make decisions, and achieve common goals.



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# Caring

## WOMEN, INFANTS AND CHILDREN (WIC)

The Women, Infants and Children (WIC) Program is funded by the U.S. Department of Agriculture (USDA) and administered in Florida by the Department of Health. Over 16,000 clients were served in Collier County during federal fiscal year 2009, with an average monthly caseload of 11,988 participants. Eligibility is based upon both income and nutrition risk. A total of 344,996 food vouchers were issued for the year while providing healthy foods for participants and contributing \$7.15 million to the local economy as WIC clients used their checks at local grocery stores.

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## IMMUNIZATION

Of the 78,618 services provided for immunizations from January 1, 2009 to December 31, 2009, 30,887 services were provided in the pediatric immunization clinics located in Naples, Golden Gate and Immokalee.

Throughout Collier County, 1,835 doses of seasonal influenza were administered along with 110,000 H1N1 influenza vaccines.

The H1N1 vaccines were given in all Collier County Public Schools; in Community Vaccination Clinics at North Collier Regional Park, the former Kmart at Freedom Square and in Immokalee; local healthcare providers and area pharmacies.

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## CHILD CARE CONSULTATION SERVICES

This program is managed and staffed by a registered nurse, employed through a contract with the Early Learning Coalition of Southwest Florida. She provides consultations and trainings to child care centers in Collier and Lee counties. This program provided over 50 trainings and 300 consultations to Family Child Care Homes and Child Care Centers in Collier and Lee Counties during 2009. During the 2009 H1N1 vaccination effort, immunizations were offered to child care centers, vaccinating a total of 1,246 children and 214 adults. Our costume character, Mr. E, assisted the nurse in educating the children and parents about the importance of the H1N1 vaccination.





# Committed

## EPIDEMIOLOGY

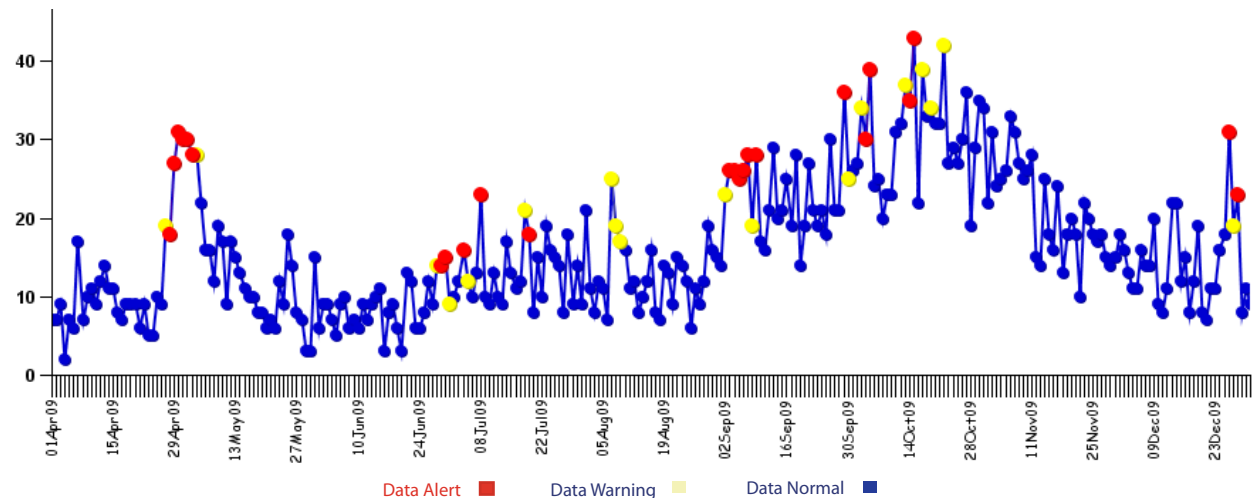
The The Epidemiology and Health Assessment Program reported 1,259 communicable diseases and health conditions during 2009. In addition 2,295 non-reportable lab results were reviewed and 240 additional cases were investigated that were not reportable conditions.

Diseases and conditions, excluding sexually transmitted diseases, of highest incidence in Collier County were: Salmonellosis, Giardiasis, Influenza due to novel or pandemic strains (H1N1), animal bites requiring rabies post-exposure prophylaxis, Campylobacteriosis, Streptococcus Pneumonia-invasive, Varicella, Tuberculosis, Hepatitis B Surface Antigen in pregnant women and Escherichia Coli.

2009 witnessed the emergence of the novel influenza strain H1N1 which rapidly developed into the first influenza pandemic in over 40 years.

During 2009 the Epidemiology Program was able to utilize its syndromic surveillance system – ESSENCE to its full potential. The Electronic Surveillance System for the Early Notification of Community-based Epidemics allowed the Collier County Health Department to track the H1N1 pandemic at the local level by monitoring the influenza like illness levels daily by geographical location. There were no deaths from H1N1 attributed to Collier County.

Number of Influenza - Like Illness Visits to Hospital Emergency Department Reported through the ESSENCE System in Collier County, April to December, 2009



The graph above shows the number of Influenza-like Illness (ILI) visits to the 4 emergency departments in Collier County between April and December 2009 as reported by the ESSENCE System. This interval includes the first two waves of the novel H1N1 influenza pandemic. The two waves are clearly visible: the first peaking in early May and the second wave, lasting a longer period of time (June through December) reached its highest incidence around mid-October.





# Committed



## ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (SEPTIC) PROGRAM

Our septic program helps monitor and standardize the construction and maintenance of our county's septic systems, with our ultimate goal of ensuring all septic systems installed in Collier County meet the minimum standards for environmental and public health safety. The 2009 program included 453 permits issued for construction, repair and abandonment inspections. Spillage complaints are also handled through this program.



## LIMITED USE WATER PROGRAM

This program ensures safe drinking water for multi-family residences and commercial establishments which are not connected to a publicly regulated water supply. The water is monitored at each inspection for fecal coliform and E. coli bacteria, but is also tested for lead, nitrates and nitrites on a predetermined schedule. In 2009, we permitted and inspected over 112 drinking water systems. We also ensure construction standards and operational standards for these systems.

## ENVIRONMENTAL HEALTH FACILITIES

Our food inspection hygiene program is an inspection and monitoring program designed to minimize the risk of food borne illnesses, with a special focus on our more vulnerable populations. Inspections begin with a prevention emphasis including plan reviews of safety and sanitary procedures in food prep/cooking areas before a facility is constructed. Inspections continue on a regular basis after the facility is opened.

The biomedical waste program is responsible for permitting, inspecting and monitoring facilities that generate, transport or store hazardous biomedical waste. Health Department inspectors educate facilities on acceptable parameters for the safe handling, treatment and disposal of waste.

Our group care program ensures the safety of our residents that populate our assisted living, child care and health-based facilities and schools. In addition to food safety monitoring, group care inspections evaluate the facilities' physical environment for any potential dangers.

We also monitor tanning facilities, mobile/recreational vehicle parks, migrant labor camps, tattooing/body piercing facilities and massage and dental facilities.







# Committed

## **PUBLIC SWIMMING POOL OPERATION & INSPECTION PROGRAM**

The Environmental Health and Engineering staff performed inspections at the 1,570 permitted public swimming pools and spas which serve housing subdivisions, lodging facilities, apartment complexes, municipal facilities and condominium complexes throughout Collier County. Re-inspections are performed as necessary. Collected water samples are analyzed for compliance with safe bacteriological standards, chlorine residual and pH level water quality standards. Pumps and other circulation equipment as well as, maintenance equipment are inspected to assure proper water treatment. Safety equipment and safety conditions are checked at each facility to provide assurance that permitted swimming facilities provide a healthy and safe environment for the bathers. The past two years have been especially challenging while the staff supports and educates the public regarding changes to federal law, from the 2007 Virginia Graeme Baker Act, which affects all commercial pools/spas. This Act redefined safety standards for main drain grades and equipment functions in commercial pools to prevent limb, hair and body entrapment.

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## **BEACH MONITORING PROGRAM**

The "Healthy Beaches" Monitoring Program continues to provide weekly beach water quality data at 14 of Collier County's beaches. The water is tested for the presence of fecal coliform and enterococcus bacteria. Beach monitoring data is available to the public via telephone at 1-941-BEACHES (1-941-232-2437). Additionally, the Environmental Health staff collects water samples from 5 sites which are used to supplement the County's efforts to monitor and identify occurrences of Red Tide and alert the public through the website [www.redtideonline.com](http://www.redtideonline.com).







# Helping

## DENTAL

With 34,603 services administered in the year 2009, the Collier County Health Department Dental Clinic is making a tremendous impact on the oral health of children and adults in Collier County. The clinic now offers digital radiography which allows for speedier diagnostic time and improved services for clients.



The Tooth Fairy/Oral Health Education Program reached 4,696 people including parents, students and children. A new website has reduced the need for paper educational packets formerly offered to Collier County school teachers. The website includes all of the oral health information and contact links for teachers, parents and children. Under the name, "Healthy Bites", new oral health information is offered monthly. This information is available at [www.collierhealthdept.org](http://www.collierhealthdept.org), under the "Smile Healthy" Logo.





# Helping



## TOBACCO

2009 was a monumental year for the Tobacco Control Program. Since the 1950's, studies have shown that the 4,000 ingredients found in tobacco products have caused harm to the smoker as well as those who are exposed to secondhand smoke. On June 22, 2009 President Obama, signed the new law granting the U.S. Food and Drug Administration (FDA) the authority to regulate tobacco products.

The Tobacco Free Collier Partnership was established in the fall of 2009. This partnership, with 25% youth membership, focuses on changing behavior through effective policy initiatives in Collier County. Two of the policy initiatives the Tobacco Free Partnership is working on is to ban candy flavored cigars and chewing tobacco and encourage businesses and schools to establish a tobacco-free policy and/or campus. These two initiatives were not included in the FDA regulation.

Many of the members of the Tobacco Free Partnership implemented policy changes. Gulfshore Insurance Company declared their campus tobacco-free in July of 2009 and November 19th, 2009, The Great American Smoke Out, was a big day for public health in Collier County as our two hospital systems, NCH Healthcare System and Physicians Regional Healthcare System declared their campuses tobacco-free.



## IMPROVED MIGRANT HOUSING

With the continued support of the Board of County Commissioners, the Collier County Health Department has eliminated 100% of the substandard migrant housing that was identified in 2006. Collier County has the largest migrant housing program in the state of Florida and has experienced a 275% increase in licensed migrant housing facilities over the past 10 years. During 2009, 1,909 migrant housing inspections were conducted to ensure safe living conditions for the area's migrant population.





# Helping

## Why Grow Collier Smarter?

- ➔ The number of obese adults in Collier County has increased 7% in five years.
- ➔ 29.8% of Collier County residents had been told by a physician that they had high blood pressure in 2007.
- ➔ A total of 4, 618 people in Collier County were hospitalized due to complications of Diabetes.
- ➔ In 2007 there were 178 bike/pedestrian crashes in Collier County resulting in 91 injuries and 5 fatalities.
- ➔ Motor vehicle traffic in Florida as continued to rise, while the number of trips people take on foot has dropped by 42% in the last 20 years, with 54% of all trips under a half mile being made in vehicles.

HealthyCollier.org



## HEALTHY COMMUNITIES

In order to address the inactivity and obesity epidemics in Collier County, the CCHD created a synergistic Smart Growth Coalition comprised of many partners including citizens, stakeholders, organizations and agencies in January of 2009.

In the alarming 2007 statistics from the Community Health Assessment Resources Tool Set, 59.6% of adults were obese or overweight, 12.3% of high school students were obese or overweight, and 41.4% of high school students were labeled as inactive in Collier County. The current built environment is affecting the health of our residents. Gated communities, less biking/walking paths and insufficient sidewalk access to walk/bike to schools, parks and shopping due to urban sprawl development ultimately play a large role in the health outcomes of our community. In working with many partner coalitions and agencies, the Smart Growth Coalition will continue to encourage the building of sustainable communities that will promote safe physical activity while making daily life more practical.



## ADULT HEALTH

On Saturday, June 20th, the Adult Health program participated in the 9th Anniversary of "World Refugee Day". The event was held at Sugden Park, and was organized in conjunction with Catholic Charities of Collier County. Staffed by big hearted volunteers, the Refugee families were treated to food, fun and camaraderie. The Collier County Health Department provided health screenings and immunization services to 457 refugees representing Cuba, Haiti and Burma.

In 2009, the Adult Health Clinic welcomed an additional physician, Dr. Bill Ruby. A second physician helps ease the growing case load formerly covered by our sole clinic physician and expert in infectious diseases, Dr. Allison Nist.







# Dedicated

## HEALTHY START

The Healthy Start program provides home visits and coordinates care for high-risk pregnant women to assure a positive outcome for the mother and the infant. Services are also provided to infants (birth to three years of age) who are at risk of developmental delays or are experiencing health problems. In 2008/09, Healthy Start served 1,625 prenatal women and 719 infants. The Healthy Start program focuses on pregnant and parenting teens with help from a Title X Family Planning Special Initiative grant. The Teen Choices program provides intensive case management to approximately 55 teens monthly with the goal of preventing repeat pregnancies. In addition to the Teen Choices Auxiliary Special Initiative Grant, Collier County Health Department received 2 additional Family Planning Title X grants. "Focus on Men" places an emphasis on male reproductive health and sexual responsibility while the other grant focuses on HIV testing and counseling in the family planning clinic at the time of service.



## FLORIDA KIDCARE

Florida KidCare is the state children's health insurance program for uninsured children under age nineteen. It includes four different programs: MediKids, Healthy Kids, Children's Medical Services and Medicaid. When an application is submitted, Florida KidCare determines which program a child is eligible for based on age and family income. Collier County Health Department makes applications available through various community partners, organizations and local health fairs. Currently there are approximately 252,000 children covered by one of these four programs in Florida, and approximately 5,000 of these children reside in Collier County. For more information or a KidCare application, call the local hotline at (239) 252-2674 or call toll-free 1-888-540-5437 (KIDS). An online application may be completed by visiting the Florida KidCare website at [www.floridakidcare.org](http://www.floridakidcare.org)



### Questions?

Call 1-888-540-5437. This is a free call. TTY: 1-877-316-8748





# Dedicated

## SCHOOL HEALTH SERVICES

The Collier County Health Department provides state mandated health screening services to public and private school children in Collier County on an annual basis. Screening components include vision, hearing, scoliosis and growth/development. Students in Kindergarten, grades 1, 3 and 6 participate in the screening services required for their particular grade level. Parents have the option to opt out of screening services for their children

In addition, screening is provided to students outside the mandated grades if a child is suspected of having difficulty and is referred by either a teacher or a parent. School Health staff refer children who need further examination after screening and assist families experiencing financial hardships to obtain the necessary services. During the 2008-2009 school year, over 36,000 screening services were provided.



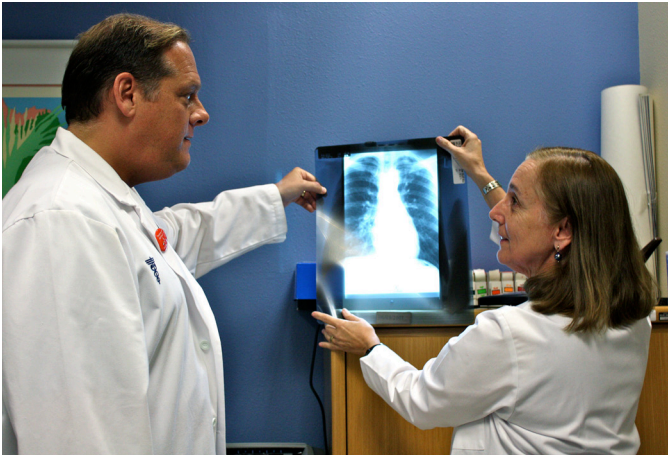
## HIV/HEPATITIS

Collier County Health Department HIV/AIDS & hepatitis Program sponsors several national awareness days each year during which it provides free HIV and hepatitis screenings and hepatitis vaccinations. In 2009, Collier County tested 3,965 people for the HIV disease and provided 1,128 Hepatitis vaccines. HIV and hepatitis health educators provided a variety of science based, culturally appropriate interventions to stop the spread of these diseases in Naples and Immokalee. We also provide case management services as well as housing, prescription drug and insurance assistance.





# Dedicated



## TUBERCULOSIS PROGRAM

The Tuberculosis Program had 27 active cases in 2008 and 20 active cases in 2009. We continue to use videophone technology for Directly Observed Therapy (DOT) on some of the Naples area TB suspects/cases and some Latent Tuberculosis Infectious (LTBI) clients. Using the videophone has saved approximately 20,000 miles, 336 man hours of driving time and resulted in decrease of wear and tear on county vehicles.

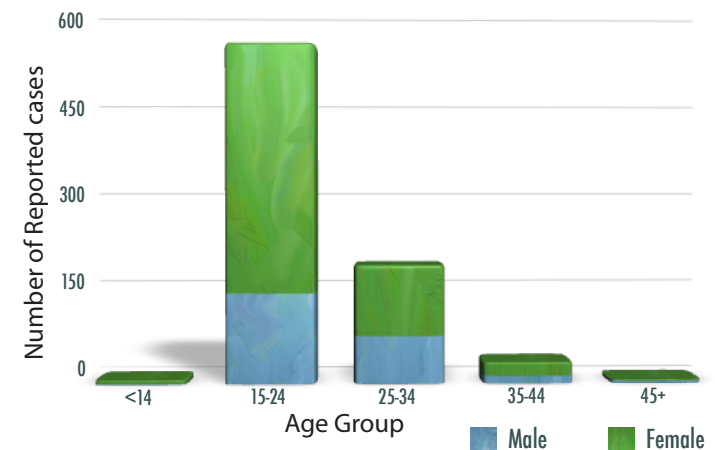


## STD PROGRAM

The Sexually Transmitted Disease (STD) Program provides valuable community education, outreach, screenings, testing and counseling for STDs throughout Collier County. In 2009, Collier County saw a decrease in both Gonorrhea and Syphilis but a 3.3% increase in Chlamydia. Chlamydia is by far the most common Sexually Transmitted Disease in Collier

County. In 2009, there were 777 cases of Chlamydia reported, with 69.6% of them occurring in the 15-24 age groups.

## Chlamydia



2009





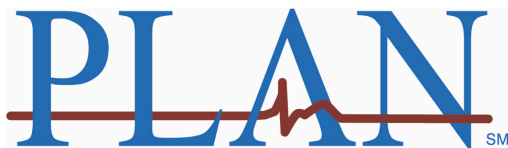


# Leadership



## **MEDICAL RESERVE CORPS**

The Collier County Medical Reserve Corps (MRC) is managed by our Disaster Preparedness Program. MRC is comprised of pre-credentialed and trained healthcare volunteers who are either, retired or practicing. This group meets quarterly for educational meetings and donates their time, expertise and assistance in local disaster drills and responses. During the 2009 H1N1 Pandemic Influenza MRC Volunteers participated over many months as inoculators in the Health Department sponsored Community Vaccination Clinics. For more information please visit [www.ccmrc.org](http://www.ccmrc.org).



## **PHYSICIAN LED ACCESS NETWORK**

The Physician Led Access Network (PLAN) of Collier County, a Collier County Medical Society initiative, is a community-based referral network that coordinates volunteer medical care for eligible low-income adults in need of specialty healthcare services in the county. Led by physicians, it is a community partnership that brings together physicians, community clinics, hospitals, diagnostic and laboratory facilities, and other healthcare providers through an integrated delivery system of care. The Health Department assures PLAN providers are covered by sovereign immunity under the Florida Department of Health.

PLAN performance highlights

In 2009 est. total unique patients served: 450

In 2009 est. total appointments: 2385

In 2009 est. total dollar value of donated care: \$3M

In 2009 est. total volunteer physician & facilities: 197





# Leadership

## DISASTER PREPAREDNESS

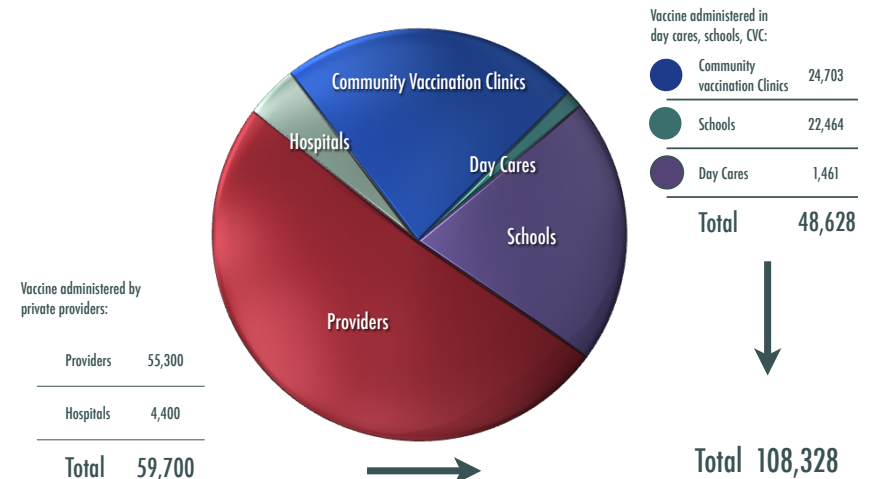
The Disaster Preparedness Program was very busy in 2009 coordinating planning for and responding to the novel virus H1N1 Influenza Pandemic. Our Health Education Department began the year conducting educational presentations on "Preparing for a Pandemic" throughout Collier County. The Health Department in concert with Emergency Management sponsored the interactive tabletop exercise "Pandemic Influenza – Nothing To Sneeze At" in early June with over 100 participants from various Collier County agencies. Coincidentally, a real life Influenza Pandemic was declared that same week and put our plans into motion. We quickly initiated an informational phone bank to answer questions from concerned residents and visitors.

Throughout 2009 our CCHD staff, community partners and 100 volunteers participated in an H1N1 Mass Vaccination Campaign that collectively immunized nearly 1/3 of our local population through local physicians, Health Department mass immunization clinics and outreach activities to schools and daycare centers.

Local residents and visitors were kept informed of the status of the H1N1 virus locally, nationally and internationally through our award winning website – [www.collierprepares.org](http://www.collierprepares.org), which is routinely updated by our Health Education Department staff. The Collier County Health Department continuously monitors potential threats to public health and is prepared to respond appropriately.

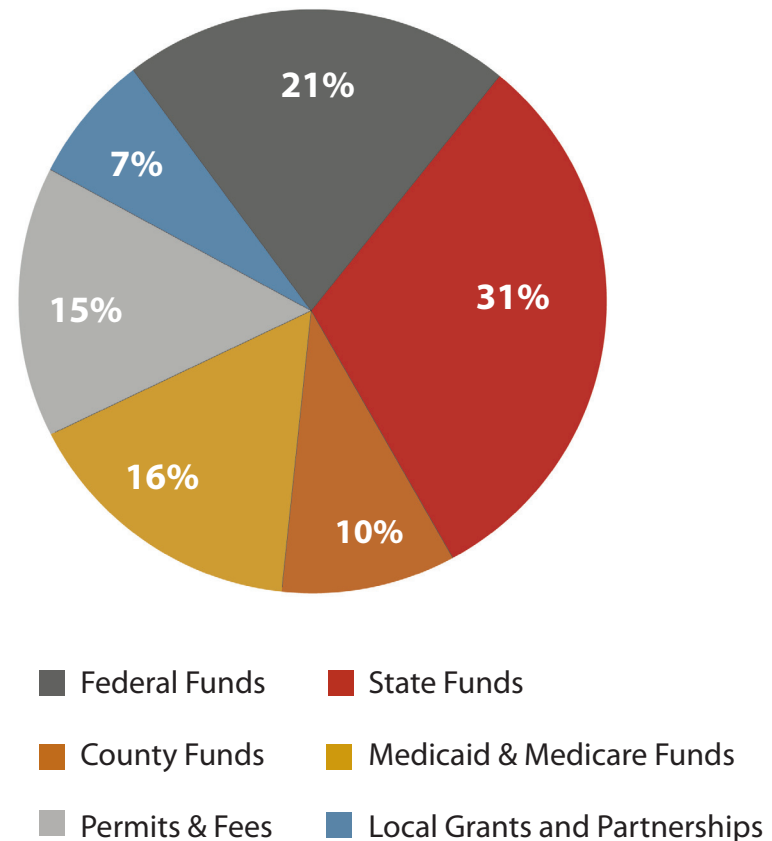


## How Our Community Got Vaccinated



# Funding Sources

For the State Fiscal Year 2008-2009, the Health Department's annual operating budget was \$14,470,995. During this time period, sources of funding included: Federal (\$3,096,110), State (\$4,526,425) and County (\$1,445,300) dollars, Medicare and Medicaid reimbursement (\$2,344,575) and permits and fees (\$2,129,217). Local grants and partnerships including Healthy Start, Florida Healthy Kids, The Early Learning Coalition, Healthy Families, March of Dimes, and others provided another (\$929,368). Please note that while approximately 1/3 of the budget is funded by the State, the Health Department's own collections through Medicaid, Medicare, permits, and fees make up another 1/3 of the budget. Each and every service carried out by the Health Department reflects our mission and vision.





# Phone Directory

## Collier County Health Department Locations

### Naples Main Office

3301 Tamiami Trail East, Building H  
Mailing: P.O. Box 429  
Naples, Florida 34106-0429  
(239) 252-8200 FAX: (239) 774-5653

### Immokalee Office

419 N. 1st Street  
Immokalee, Florida 34142  
(239) 252-7300 FAX: (239) 658-7329

### Women Infants and Children (WIC)

East Naples (252-8208)  
Golden Gate (353-1274)  
Immokalee (252-7310)  
Breastfeeding  
Education & Support (252-5316)

### Health Education

Tobacco Prevention/ SWAT  
(252-2672)  
Collier Health Promotion Coalition  
[www.HealthyCollier.org](http://www.HealthyCollier.org)  
(252-2594)  
Disaster Preparedness Education  
(252-2631)  
[www.CollierPrepares.org](http://www.CollierPrepares.org)

### Vital Statistics (252-8205)

### Epidemiology (252-8226)

### Communicable Disease Control

HIV/AIDS patient care and  
case management (252-8593)  
Rapid HIV testing (252-8593)  
Hepatitis A, B & C testing and  
adult vaccines (252-8593)  
Tuberculosis (252-6007)  
Sexually Transmitted Diseases  
(252-6837)

### Family and Personal Health

Healthy Start (252-8551)  
School Health (252-2576)  
Dental Health (252-5314)  
Kid Care Outreach (252-2674)  
Healthy Families (252-7308)

### Medical Reserve Corps (252-6874)

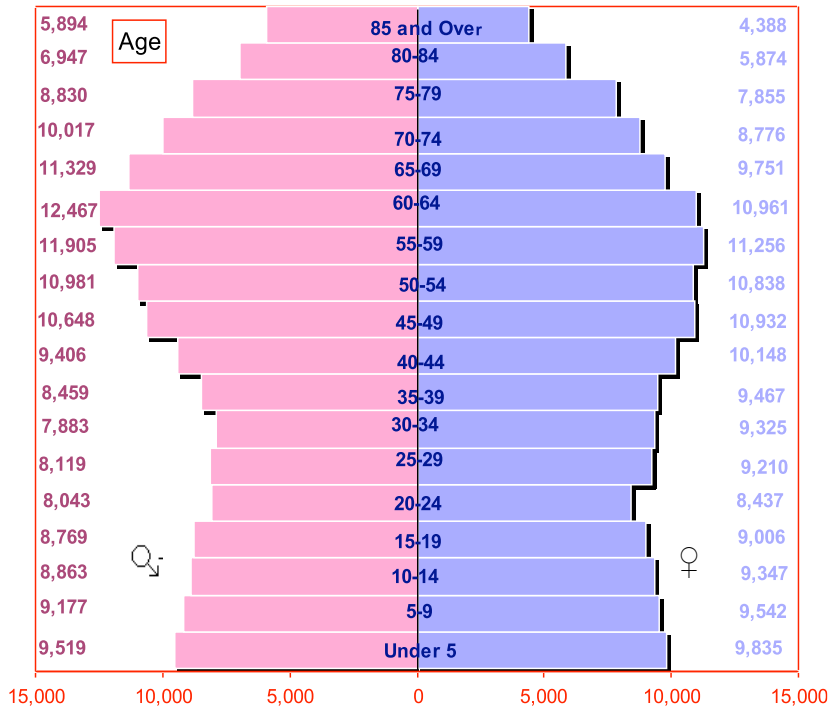
[www.ccmrc.org](http://www.ccmrc.org)

### Immunization Services (252-8595)

### Environmental Health and Engineering (252-2499)

## Collier County Health Profile

**Population Pyramid by Sex and Age, Collier County, 2009**



Total Female	Total Population 2008	Total Male
167,256	332,204	164,948
White: 305, 628	Black: 18, 936	Hispanic: 84, 712

c)

Maternal and Child Health	Collier 2006-2008	Florida 2006-2008
Total Birth Rate (Rate/1,000)	12.2	12.6
Teens (15-19) Birth Rate (Rate/1,000)	48.6	42.5
Low Birth weight Rate (% of Live Births)	6.8%	8.7%
Percent of Live Births with Late or No Prenatal Care	8.9%	5.8%
Percent of Kindergartners Immunized	94.0%	92.7%

c)

**Number of Services Provided by Program Component, Collier County Health Department 2008- 2009**

Program Component	Number
Immunization	35,015
H1N1 Immunization	46,205
Sexually Transmitted Disease	10,241
HIV/AIDS	18,592
Tuberculosis	9,407
Communicable Disease Surveillance	7,222
Chronic Disease and Prevention	9,764
Public Health Preparedness	304
WIC	126,017
Maternal and Child Health	85,100
School Health	192,968
Adult Health	6,916
Dental Health	25,547
Environmental Health	36,256
Vital Statistics	36,640
Total CCHD Services Provided	646,194

b)

Uninsured 2009	County	State
Percentage of persons < age 65 who are Uninsured	33	24

a)

**Socioeconomic Status for Collier County and Florida**

	Collier 2008	Florida 2008
Per Capita Income	\$57, 446 (2006)	\$36, 720 (2006)
Median Household Income	\$61, 379	\$47, 802
Percent of Kindergarten Children on Free/ Reduced Lunch	57.5%	55.7%
Percent with High School Diploma	77.2%	76.3%
Percent with College Degrees	30%	25%
Unemployment Rate	6.8%	6.2%

c)

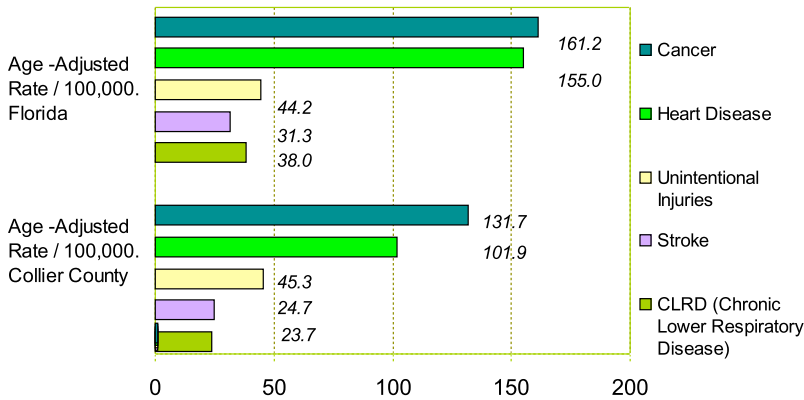
Major Causes of Death, Collier County, 2008				
Cause of Death	Deaths	Percent of Total Deaths	Age-Adjusted Death Rate Per 100,000	(*YPLL < 75 Per 100,000 Under 75
ALL CAUSES	2,707	100.0	495.0	5,722.5
CANCER	739	27.3	131.7	1,421.0
HEART DISEASE	610	22.5	101.9	581.2
UNINTENTIONAL INJURIES	174	6.4	45.3	1,224.4
STROKE	145	5.4	24.7	146.2
CHRONIC LOWER RESPIRATORY DISEASE	144	5.3	23.7	116.9
ALZHEIMER'S DISEASE	105	3.9	16.6	7.5
DIABETES MELLITUS	67	2.5	11.4	119.6
CHRONIC LIVER DISEASE AND CIRRHOSIS	46	1.7	10.1	200.3
PNEUMONIA /INFLUENZA	31	1.1	5.3	50.1
SUICIDE	42	1.6	12.3	325.4
HOMICIDE	9	0.3	3.3	122.0
AIDS/HIV	7	0.3	2.3	68.1
PERINATAL CONDITIONS	14	0.5	0.0	0.0

c)

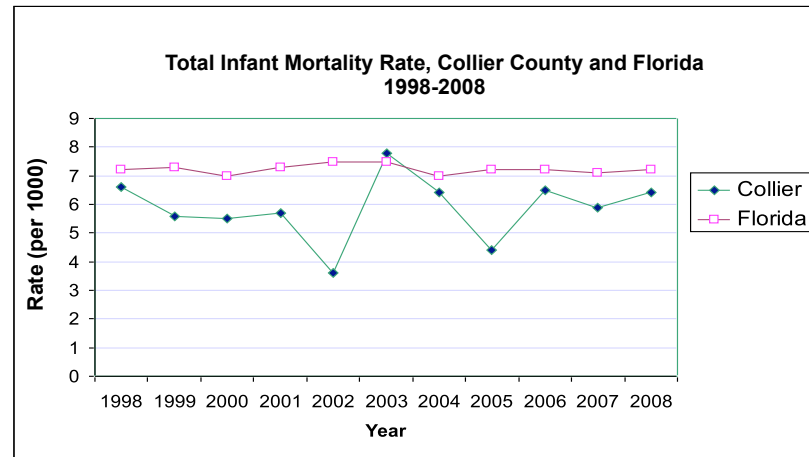
	Collier 2006-2008	Florida 2006-2008
Morbidity	3-Year rate/ 100,000	3-Year rate/ 100,000
Sexually Transmitted Diseases	250.8	447.7
Vaccine Preventable Diseases	3.0	3.3
New HIV cases	16.2	32.2
AIDS cases	14.0	23.7
Tuberculosis	5.7	5.3
Enteric Disease	58.7	51.1

c)

**Mortality and Top 5 Leading Causes of Death Collier County and Florida, 2008**



c)



c)

**Actual Lifestyle Causes of Death, Collier County, 2008**

Actual Cause	Number	Percentage
Tobacco	490	18.1
Poor Diet and Physical Inactivity	450	16.6
Alcohol Consumption	95	3.5
Microbial Agents	84	3.1
Toxic Agents	63	2.3
Motor Vehicle Crashes	49	1.8
Firearms	33	1.2
Sexual Behaviors	22	0.8
Illicit Drug Use	19	0.7
Total	1305	48.3

Note: The listed 9 Actual Causes of Death Accounted for almost 50 percent of all Deaths in Collier County in 2008

These actual causes of death for Collier County have been extrapolated from the article, *Actual Causes of Death in the United States*, JAMA, Nov. 10, 1993. Vol. 270, No.18.

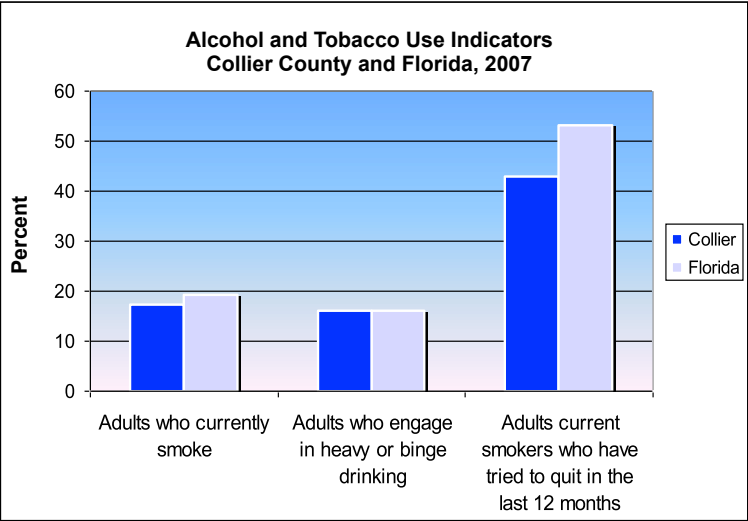
While the leading causes of death indicate the pathophysiological condition identified at the time of death, the Actual Lifestyle Causes of Death generally reflect the root cause.

d)

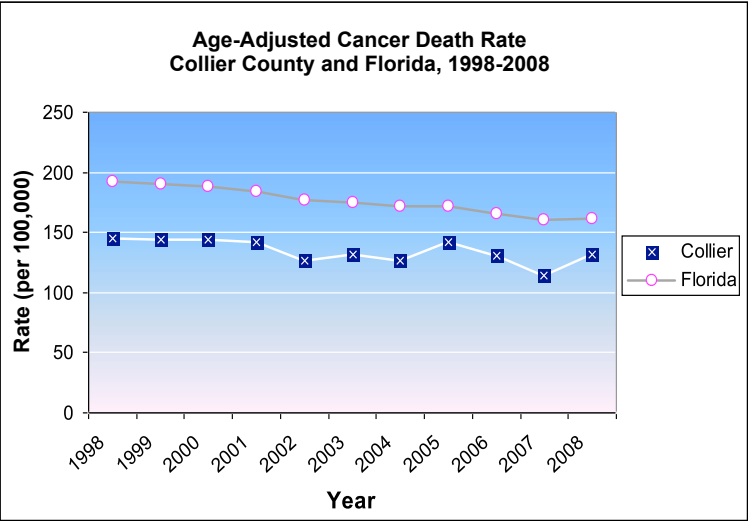
(\* ) YPLL: Years of Potential Life Lost: A measure of the relative impact of various diseases and lethal forces on society.

SOURCES: a) U.S. Census Bureau b) CCHD  
c) FDOH Charts d) CCHD - Epidemiology

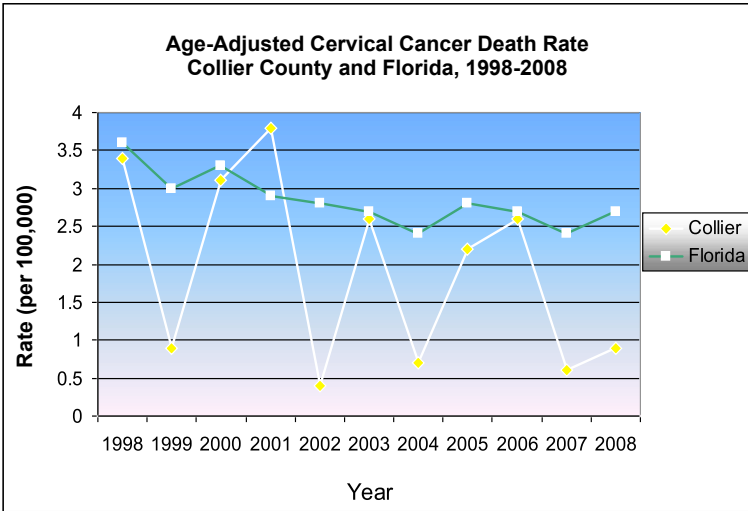




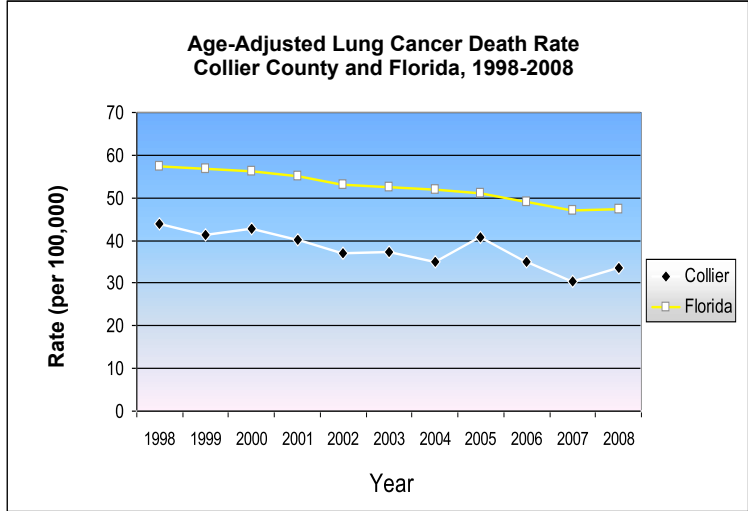
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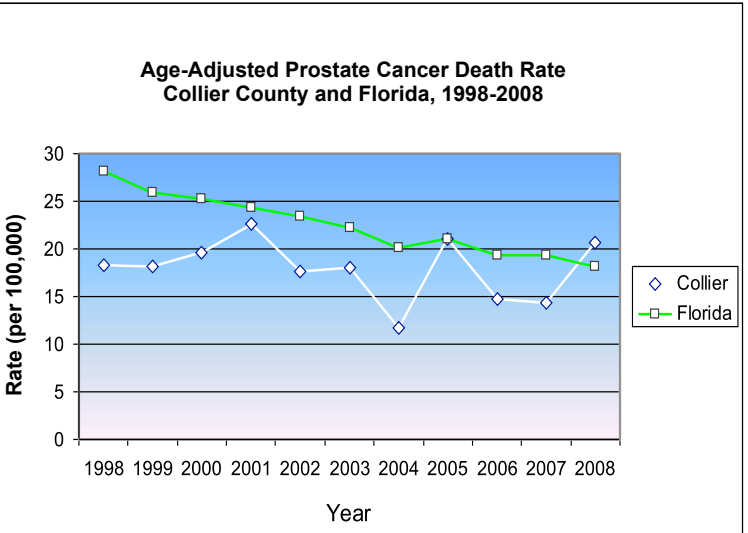
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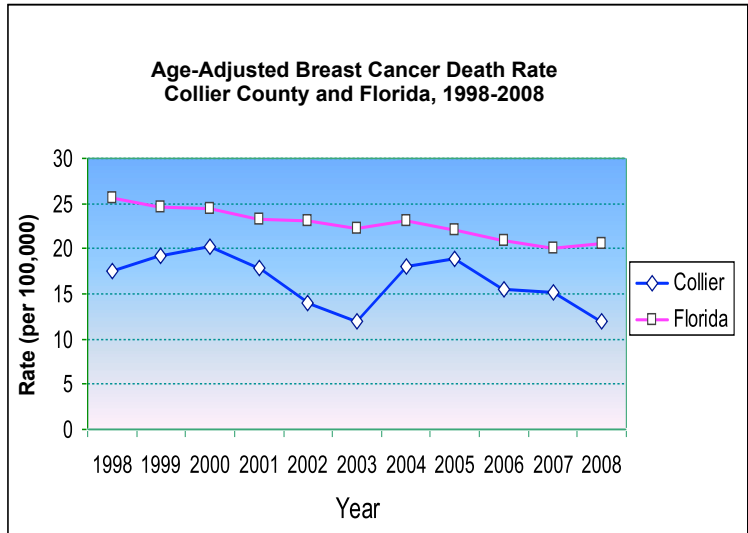
c)



c)

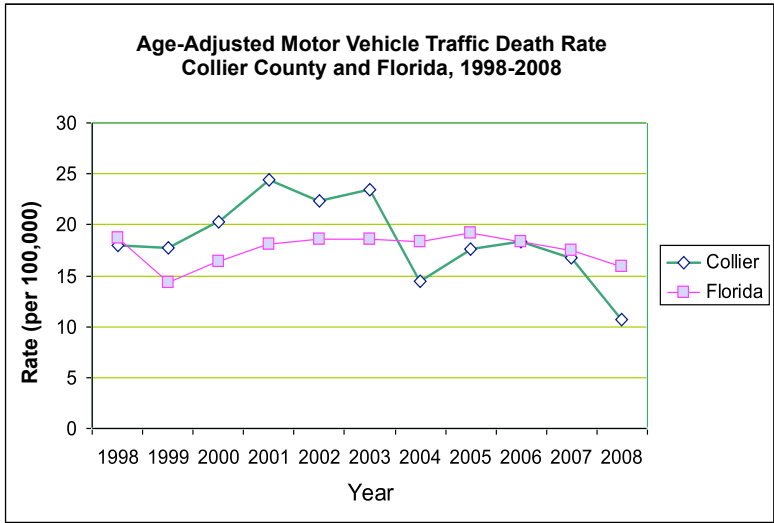


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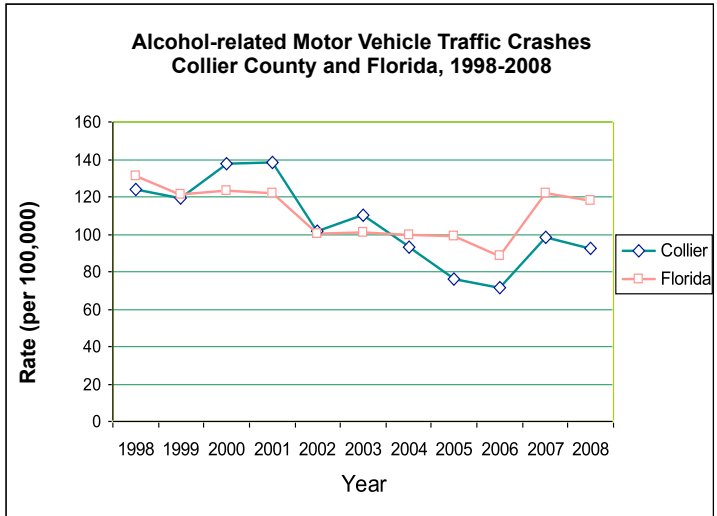


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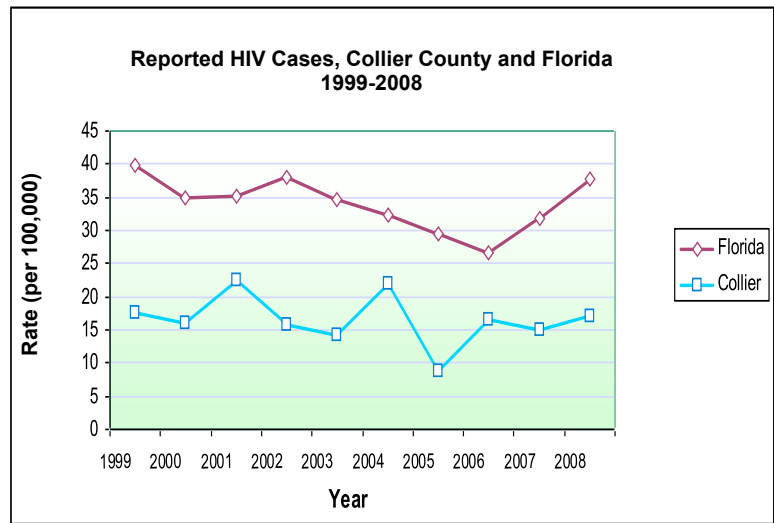
SOURCES: a) U.S. Census Bureau      b) CCHD  
 c) FDOH Charts                      d) CCHD - Epidemiology



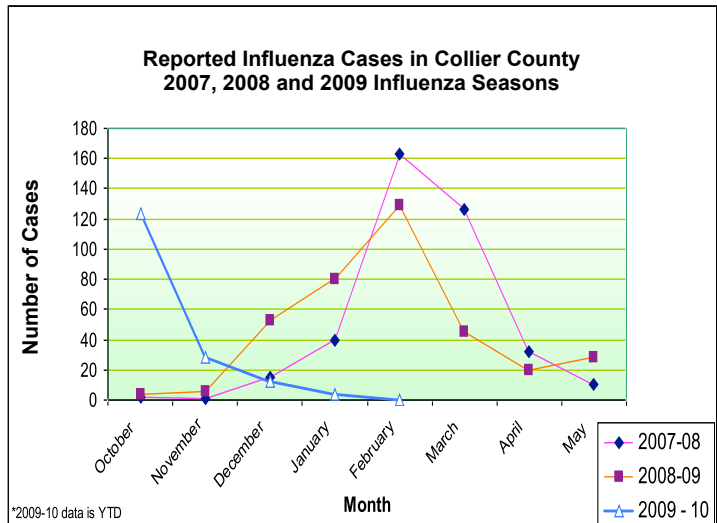
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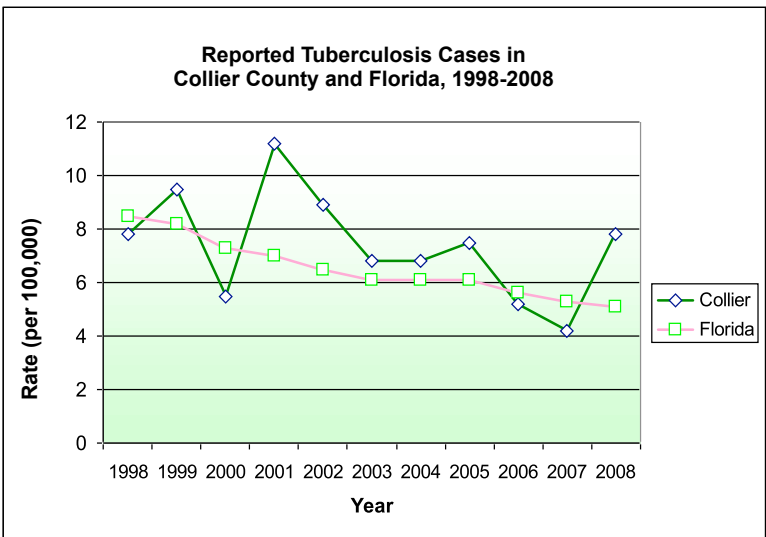
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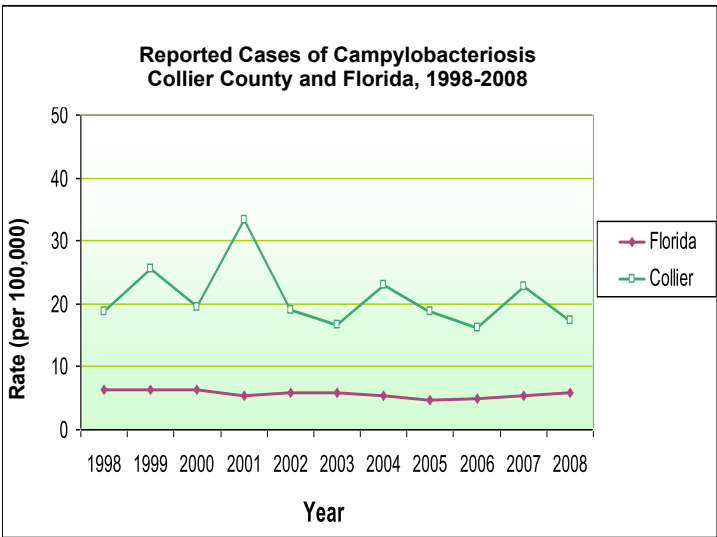
c)



d)



c)



c)