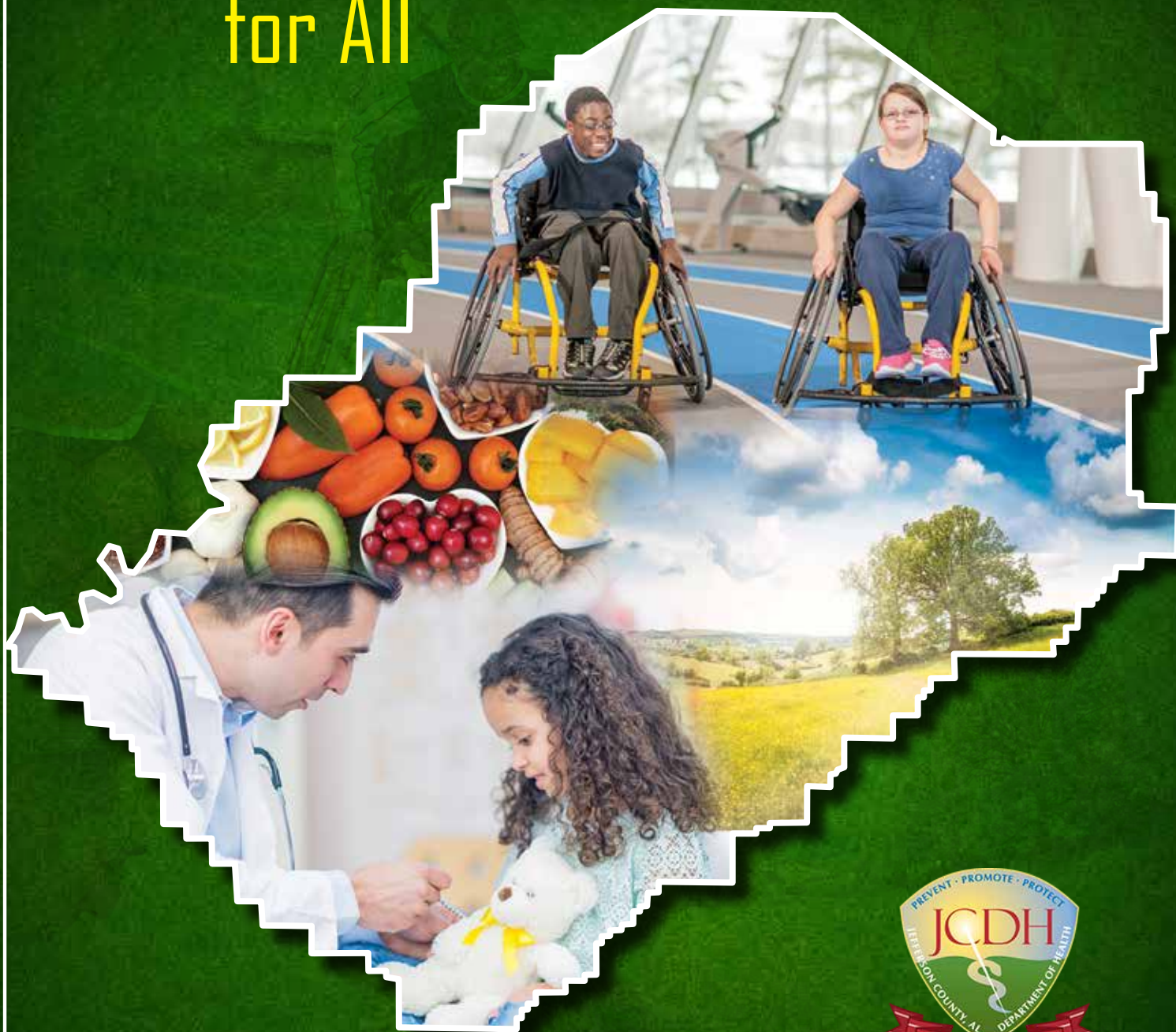


A Healthier Jefferson County for All



Jefferson County Department of Health 2018 Annual Report



A Healthier Jefferson County for All



JEFFERSON COUNTY
DEPARTMENT OF HEALTH

Jefferson County Board of Health

January 1, 2018 - December 31, 2018



Max Michael, III, MD
Past Chair



Joshua Miller, DO
Chair



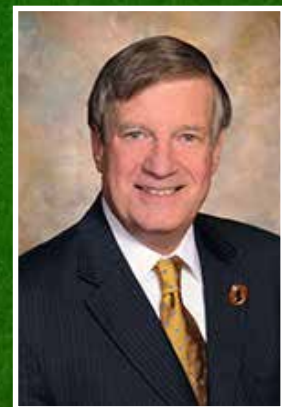
Yocunda Clayton, MD
General Liability Claims Committee/
Investment Committee



Hernando Carter, MD
Secretary



Sylvie Stacy, MD, MPH



Commissioner Jimmie Stephens

A Healthier Jefferson County for All



A Message from the Health Officer.....	1	Public Health Advised Fund.....	10
Dental Health.....	2	Environmental Health.....	12
Clinical Services.....	3	Emergency Preparedness and Response.....	17
Disease Control.....	6	Finance and Administration.....	18
Quality Improvement and Decision Support.....	8	General Financial Information.....	20
Board of Health Actions.....	9	Health Statistics.....	22





A MESSAGE FROM THE HEALTH OFFICER

In 2018, the Jefferson County Department of Health (JCDH) moved forward toward achieving its vision of “a healthier Jefferson County for all” by expanding and improving services and partnering to support community public health initiatives.

JCDH expanded dental service access in 2018, providing care for more adults in public health priority groups such as pregnant women. JCDH received national recognition for implementing an HIV Pre-Exposure Prophylaxis (PrEP) program designed to prevent HIV transmission and infection among individuals with the highest HIV exposure risk.

Internally, JCDH replaced its original electronic medical record (EMR) with a new system with greater capabilities. The new EMR supports more efficient patient care and gives patients enhanced ability to interact with JCDH providers to manage their health. Features of the EMR include a patient portal, health reminder capabilities and improved patient access to health information.

With substantial support from JCDH and in partnership with other community organizations, two programs aimed at improving birth outcomes and fostering optimal infant health and development expanded their reach: the Nurse Family Partnership, an intensive, evidence-based health intervention pairing first-time pregnant women living in poverty with a visiting nurse for coaching and counseling during pregnancy and through the child's first two years of life, and From Day One, a program designed by JCDH using community health workers to support low-income women during pregnancy and through the baby's first birthday.

The Recovery Resource Center, a centralized resource providing individuals and families affected by substance abuse with information, assessment, treatment referral and peer support, launched in May 2018 with support from JCDH. The concept and development of this Center resulted from collaboration with multiple community partners to address an unmet need in Jefferson County. The services of the Recovery Resource Center are available free of charge to anyone affected by any substance use disorder.

To develop the next Jefferson County community health assessment and improvement plan, JCDH conducted broad assessments of health and quality of life in Jefferson County with input from over 1,800 county residents and representatives from the local public health system. This community input is being combined with the health-related data collected during 2018 to produce a community health assessment for publication in 2019. This assessment will guide the development of the 2019-2024 community health improvement plan for Jefferson County.

At the heart of all JCDH services and programs is the commitment to health equity. Health equity means that everyone has the opportunities to attain his or her highest level of health. During 2018, JCDH adopted health equity guiding principles and initiated health equity and diversity training for employees. Together with the community and the local public health system, JCDH continues to strive to achieve the vision of a healthier Jefferson County for ALL.

A handwritten signature in dark ink, appearing to read 'ME Wilson MD'.

Mark E. Wilson, MD
Health Officer

Dental Health



2018 was a year of innovation with the enhancement of electronic dental record software and integration of new equipment and software to improve efficiency and workflow. Dental Health employees received multidisciplinary training in finance and medical record use to further enhance operational efficiency. Dental Health provided access to care and addressed health equity by providing 12,127 dental preventative and treatment service visits for approximately 6,000 qualifying Jefferson County residents at the Jefferson County Department of Health (JCDH) Central, Eastern and Western Dental Clinics during the 2018 fiscal year.

In ongoing collaboration with Project Homeless Connect and One Roof, dental care was provided for the local homeless population at no cost to the patient. The Dental Community Foundation Grant awarded to JCDH helped support this service. Through a partnership with Cooper Green Mercy Health Service's Primary Care Clinic, adult patients with diabetes were referred to JCDH Dental Clinics.

Protecting the community's dental and overall health for the future requires a well-trained workforce. JCDH Dental Health partnered with the UAB School of Dentistry, Wallace State Community College and Lawson State Community College in providing clinical rotations and education in public health practice for dental, dental hygiene and dental assisting students.



Clinical Services

The Clinical Services Division of the Jefferson County Department of Health (JCDH) continued to assure access to quality health care through health care initiatives and programs. During the 2018 fiscal year (October 1, 2017 – September 30, 2018), JCDH recorded more than 82,000 patient visits for adult and pediatric primary care, preventive services, vaccination, chronic disease management, pharmacotherapy, family planning, nutrition and social services. Primary care services including well and sick visits, chronic disease management and pharmacotherapy services were provided for adults and children at three locations: Central Health Center, Eastern Health Center and Western Health Center.

Primary Care Patient Visits	
PROGRAM AREA	TOTAL VISITS
Child Health	48,496
Family Planning	20,603
Adult Health	13,010

Family Planning services, provided to both males and females at Central, Eastern and Western Health Centers, included preventive services, education and counseling, cervical and breast cancer screening, reproductive health management, contraceptive supplies, pregnancy testing and referral. In 2018, JCDH Family Planning Clinics began offering Nexplanon®, a long-acting reversible contraceptive providing up to three years of continuous birth control. JCDH partnered with the UAB Department of Obstetrics and Gynecology to ensure proper Nexplanon® training for clinic providers. To

date, JCDH has inserted 113 Nexplanon® devices.

With Social Workers and Nurse Case Managers on site at Central, Eastern and Western Health Centers, Social Services supported JCDH patients through health education, access to community resources and restoration of social function. Social Services addressed a variety of concerns for more than 7,000 patients, including parents of over 1,000 newborns, using assessment and care planning techniques.

JCDH Social Services staff received Mental Health First Aid and Medicaid Assister certifications and were trained in child abuse reporting, motivational interviewing, suicide prevention and other areas for practice improvement.



WIC information was provided at the Spring Into Health event at Western Health Center.

JCDH offered nutrition services through the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) at Central, Eastern, Morris and Western Health Centers. During fiscal year 2018, the Jefferson



County WIC Program provided nutrition education to an average of 15,066 participants monthly and issued 705,712 food instruments for healthy foods including fresh fruits and vegetables. The WIC Program continued to educate participants on the importance of choosing human milk as baby's first food. WIC ensured that JCDH Health Centers remained breastfeeding friendly by not displaying formula messages and providing breastfeeding education and support through WIC nutritionists and breastfeeding peer

counselors. As a result of efforts to promote breastfeeding, the 2018 breastfeeding initiation rate increased to 71.3% from the 2017 rate of 67.5%.

JCDH continued to partner with Brookwood Baptist Health in the Patient Transformation Network (PTN) Grant designed to achieve large-scale clinical care transformation by promoting payment and primary care practice reform. In 2018, JCDH implemented a new electronic medical record to improve clinic efficiency, increase patient interaction and

Clinical Services

engagement in personal health care, and improve the overall patient experience. One feature of the new electronic record is its robust patient portal. Through this portal, patients can view test results, request appointments, communicate with JCDH health care staff, request prescription refills, and pay bills for health services received.

JCDH launched a centralized Call Center during October 2018 to enhance appointment scheduling for all JCDH clinic locations, receive nurse calls, provide health messaging and education, and respond to general inquiries from patients and the public. The benefits of centralizing these activities include enhanced communication, improved efficiency and decreased scheduling errors. The Call Center has averaged 3,500 calls per week since opening.

All patient health information created, maintained and stored at JCDH is protected by confidentiality and privacy laws. Release of Information staff responded to more than 5,700 medical record requests and released more than 153,000 documents.

JCDH's partnerships with other agencies expanded service provision through innovative service delivery models. In partnership with the McWhorter School of Pharmacy at Samford University, pharmacotherapy services for adults in JCDH's Cardiovascular Disease, Diabetes, Pre-diabetes, Tobacco Cessation and Naloxone Clinics (Opioid Overdose Kits) were provided. JCDH, in collaboration with Cahaba Medical Care, the UAB School of Nursing and Christ Health Center, provided a one-year on-the-job training and mentoring experience for recently graduated Certified Registered Nurse Practitioners in adult health. JCDH also provided training for nurse practitioner students from the UAB School of Nursing and the Samford University Ida V. Moffett School of Nursing, and nutrition students from the University of Alabama. Training of UAB pediatric resident physicians in JCDH clinics continued during the year.



JCDH launched its From Day One (FDO) Program on February 19, 2018. From Day One is a comprehensive patient-centered program which educates and supports expectant mothers from the first trimester of pregnancy through the infant's first year of life. FDO's mission is to improve pregnancy and birth outcomes for women and infants in Jefferson County by promoting early access to prenatal care and connecting families to community resources. In collaboration with Connection Health, FDO provides training, regular monitoring and case management services designed to reduce Jefferson County's infant mortality rate.

As a partner in the Alabama Baby Box Safe Sleep Project, FDO provided safe sleep education and enrolled maternity patients in the Baby Box University Program Alabama. The Baby Box University Program allows new parents to complete educational courses on child development, safe sleep and other topics. After completing these courses, parents receive free infant supplies, including a baby box for safe sleep. Two Baby Safety Showers for FDO participants featured injury prevention information for caregivers. Baby Safety Shower participants received CPR training, and education on car seat installation and breastfeeding.

JCDH continued its leadership of the Maternal and Child Health (MCH) Roundtable through the Jefferson County Health Action Partnership. Fifty-four organizations participated in the MCH Roundtable during 2018, exploring new

Clinical Services

ways to coordinate services and reduce gaps in care.

JCDH continued its support of the Nurse Family Partnership (NFP) program in Jefferson County. NFP, a nationally-recognized program, provides in-home nurse visits and education for first-time, low-income mothers to reduce maternal and infant mortality. The visits begin before the 26th week of pregnancy and continue until the child's second birthday. During 2018, the Nurse Family Partnership enrolled 111 pregnant women.

JCDH provided persons with Limited English Proficiency access to meaningful communication and an equal opportunity to participate in JCDH services, activities, programs and other benefits. Seven of JCDH's seventeen Public Health Language Workers (PHLWs) have attained national certification in medical interpretation as Certified Healthcare

Interpreters. In October 2018, the Public Health Language Coordinator received certification for providing training on concepts and strategies for delivering culturally competent and linguistically appropriate health care and human services.

PHLWs provided interpretation and translation services during 47,684 patient encounters for Limited English Proficiency clients during the 2018 fiscal year, and provided simultaneous interpretation at the Baby Safety Showers.

JCDH's clinical care included laboratory services. During 2018, JCDH laboratories collected and reported 379,481 lab tests. A total of 196,886 in-house tests were performed, and over 75 laboratory devices were interfaced with the electronic medical record. Four reference laboratories were interfaced with the new electronic medical record to eliminate manual result entry and enable more rapid access to test results.



Nurse educating a first-time mother on infant care.

Disease Control

Disease Control at the Jefferson County Department of Health (JCDH) consists of the Sexually Transmitted Disease (STD) program, the Tuberculosis (TB) program, the International Travel Clinic and the Prevention and Epidemiology program.

The STD program is responsible for the investigation of all notifiable STDs in Jefferson County, Alabama. Each person with a reactive lab test is assessed for treatment based on Centers for Disease Control and Prevention (CDC) treatment guidelines. During 2018, JCDH investigated over 7,700 cases of chlamydia, gonorrhea, HIV and syphilis. During sexual partner interviews, over 1,300 persons were identified as being at-risk for STD and/or HIV exposure. Individuals identified with undiagnosed disease were treated.



JCDH staff providing disease prevention information and resources at the Magic City Classic.

Disease Control staff work to prevent STD spread and prevent disease complications for persons infected. STD screening was provided at five community sites in areas with high STD rates. At these screenings, almost 200 persons were tested for five of the most common STDs (chlamydia, gonorrhea, trichomonas, syphilis and HIV). JCDH also conducted thirty-eight educational presentations in communities where STD cases were concentrated. Persons at high-risk for HIV received counseling and referral for JCDH's Pre-Exposure Prophylaxis (PrEP) services. PrEP services are designed to prevent HIV transmission and infection among individuals at high-risk for HIV exposure.

The Specialty Clinic Case Manager provided patient navigation for the PrEP and Hepatitis C programs and assisted with JCDH's Tuberculosis and Sexually Transmitted

Disease programs' clients. As of December 2018, JCDH continued to serve fifty active PrEP patients and fourteen Hepatitis C patients.

JCDH received a 2018 Promising Practice Award from the National Association of County and City Health Officials (NACCHO) for incorporating PrEP and Hepatitis C treatment, expanding days for PrEP appointments, and increasing collaboration with community partners to increase PrEP and Hepatitis C referrals.

The opioid epidemic remains a major public health crisis and has resulted in increased Hepatitis C cases related to injection drug use. Since JCDH began testing for Hepatitis C in 2017, eight of the fourteen patients treated have been cured.

JCDH's TB Control program protects the health of Jefferson County residents through the prevention and treatment of tuberculosis. This protection is achieved through education, diagnosis and providing therapy for residents with active TB or latent TB infection. During 2018, JCDH followed eighteen active tuberculosis cases. To prevent disease spread, a contact investigation was initiated for each active case to identify, evaluate, and treat exposed individuals. Over 500 contacts of TB patients were screened. Additionally, JCDH participated in eleven community outreach events to educate high-risk populations on



Brittany Sanders, DNP, receives NACCHO Promising Practices Award.

Disease Control



TB education display.

the signs and symptoms of TB, and screening options.

Individuals received TB skin tests or TB blood tests to detect TB exposure and, as indicated, were evaluated with chest x-rays for evidence of active TB infection. The TB Clinic evaluated over 950 individuals with chest x-rays, placed over 1,700 TB skin tests and performed over 900 T-SPOT.TB blood tests for TB exposure.

The International Travel Clinic offered immunizations for children and adults traveling outside the United States. During 2018, JCDH provided



travel consultations to 687 individuals and administered over 2,300 vaccinations to these individuals. JCDH continued as an administration site for the alternate yellow fever vaccine and provided 855 doses of this vaccine.

In collaboration with the Alabama Department of Public Health, the Prevention and Epidemiology program conducted over 800 investigations of Alabama's notifiable disease cases in Jefferson County through consultations with health care providers, patient interviews and outbreak investigations. Additionally, twenty-six institutional outbreaks, seventeen school outbreaks, twenty-five foodborne illness reports, and 100 school and institutional disease complaints were investigated during 2018. Beginning in July 2018, the Prevention and Epidemiology program managed immunizations for vaccine preventable diseases and conducted perinatal Hepatitis B investigations.

Quality Improvement and Decision Support

The Quality Improvement and Decision Support (QIDS) Division provides assessment, planning and evaluation services for the Jefferson County Department of Health (JCDH). QIDS leads the organization's quality improvement and performance management programs and is a key contributor to JCDH's ongoing Public Health Accreditation Board (PHAB) accreditation.

During 2018, QIDS analyzed socioeconomic and health indicators to inform the 2018 Jefferson County Community Health Equity Report, a publication of the Jefferson County Health Action Partnership. An analysis conducted for the *Welcoming Immigrants Strengthening Health Project* supported an assessment of the impact of governmental policies on health care utilization nationally.

While continuing to update the current Community Health Assessment for Jefferson County, Alabama and evaluate implementation of the Community Health Improvement Plan for Jefferson County, Alabama 2014-2019 Work Plan, QIDS launched Jefferson County's third Mobilizing for Action through Planning and Partnerships (MAPP) process in late 2018. The new MAPP process will create an updated community health assessment and community health improvement plan for release in 2019. The four assessments comprising MAPP were completed by engaging over 1,800 county residents and representatives of the local public health system.



Key JCDH contributors to the 2018 Jefferson County Community Health Equity Report. Thomas Veazey not pictured.

QIDS continued its support of the Health Action Partnership of Jefferson County (HAP). The HAP's Optimizing Healthcare Access Priority Group, led by Jefferson County Health Officer, Mark Wilson, MD, continued the post-graduate nurse practitioner residency program, implemented a gap analysis of maternal and child health services through the Maternal and Child Health Roundtable, and created a Safety Net Leaders group with representation from Cooper Green Mercy Health Services, the Federally Qualified Health Centers (FQHCs) operating in Jefferson County, Project Access, Hope Health Center and JCDH to explore improved care coordination for low-income and uninsured residents.

QIDS and Environmental Health Division staff served as facilitators for the HAP's Health Equity Orientation. In collaboration with the HAP's Advancing Health Equity Priority Group, QIDS and Management Information Services staff identified, analyzed and mapped data for the 2018 Jefferson County Community Health Equity Report. Guidance and support were provided by QIDS for activities of the HAP's Promoting Healthy Lifestyles, Built Environment, Transportation and Safety and Improving Mental Health Priority Groups.

QIDS led multiple tactic teams in implementing the JCDH Strategic Plan 2017-2021. Included in these tactics were an internal data needs assessment, data resource identification addressing assessed data needs, continuation of JCDH's performance management system, and implementation of the 2018-2019 MAPP process.

Quality improvement activities conducted in 2018 included: supporting ongoing improvements to New Employee Orientation through data analysis; increasing community awareness of sexually transmitted disease screening and treatment resources; increasing staff competence and confidence in using the Incident Command System, and the launch of a multi-year project to reduce illegal dumping and burning.

With support from the Robert Wood Johnson Foundation's Culture of Health Leaders program, the South East Lake Collective was established in partnership with Promoting Empowerment and Enrichment Resources, Inc., Urban Collective and the National Hook Up of Black Women. The South East Lake Collective developed and is implementing educational and employment opportunities for low-resourced women.

Board of Health Actions



Max Michael, III, MD
Past Chair



Joshua Miller, DO
Chair



Yocunda Clayton, MD
General Liability Claims Committee/
Investment Committee



Hernando Carter, MD
Secretary



Sylvie Stacy, MD, MPH



Commissioner Jimmie Stephens

The Jefferson County Board of Health (Board), the governing body of the Jefferson County Department of Health (JCDH), is comprised of five physicians elected by the Jefferson County Medical Society and the President of the Jefferson County Commission. The Board approves JCDH's annual budget and all contracts. The Board is authorized to revise or adopt certain public health regulations, endorse policies and legislation promoting health, and take other actions advancing public health. The Board receives regular updates from the Jefferson County Health Officer, Mark Wilson, MD, presentations from JCDH staff on programs and quality improvement activities, and occasional presentations from external health partners.

Among the actions of the Board of Health in 2018 were:

- A resolution to adopt Title V Operating Permit Fees for calendar year 2017, payable in 2018, at a rate of \$47 per ton of regulated pollution. These fees, required by the Environmental Protection Agency (EPA), fund JCDH's direct and indirect costs related to air pollution monitoring and control such as labor, equipment and administrative expenses for the large sources of air pollution issued Title V Operating Permits by JCDH.
- Approval of a resolution authorizing JCDH to transfer funds to the Public Health Advised Fund, managed by the Community Foundation of Greater Birmingham, to support public health needs within Jefferson County as guided by the JCDH Strategic Plan 2017-2021 and the Jefferson County Community Health Improvement Plan Work Plan 2014-2019. Among the programs supported through these funds was the expansion of the Nurse Family Partnership, a visiting nurse program for first-time, low-income women designed to reduce maternal and infant mortality and strengthen families.
- A resolution to contract with a law firm for the prosecution of legal claims against manufacturers and distributors of opioids arising from the manufacturers' and distributors' fraudulent and negligent marketing and distribution of opioids.
- Approval of a contract with a consulting firm to provide strategic planning assistance for the Birmingham Safe Neighborhoods Task Force.
- A resolution for the transfer of additional JCDH funds to the Public Health Advised Fund for the continuation and expansion of services provided by the Recovery Resource Center (RRC) of Jefferson County. The RRC, which opened in May 2018, provides in-person information, assessment, referral for treatment and peer navigation services for individuals and families impacted by addiction.

Public Health Advised Fund

The Jefferson County Department of Health maintains a funding mechanism through the Public Health Advised Fund of the Community Foundation of Greater Birmingham to support community health initiatives within Jefferson County which are in alignment with the Jefferson County Department of Health's strategic priorities. During 2018, \$952,662 in grant funding was approved for community-based projects led by local organizations including:



- A grant to the UAB School of Nursing leveraging funds from other local philanthropic agencies to finance expansion of the Nurse Family Partnership, a nationally recognized home-visiting model proven to improve prenatal health, birth outcomes and child development, as well as reduce adverse events in childhood.



Introducing The Recovery Resource Center at Project Homeless Connect.

- A grant to the Crisis Center to continue and expand operations of the Recovery Resource Center in assisting individuals and families impacted by substance abuse navigate the substance abuse treatment system. Since opening in May 2018, the Recovery Resource Center has served 600 clients with education, assessment, referral and navigation to treatment, and peer support.

- Support for the Mother's Milk Bank of Alabama for operational expansion, including technical upgrades for increasing human donor breastmilk processing. Donor breastmilk supports the nutritional needs of high-risk infants in area neonatal intensive care units. During 2018, 52,671 ounces of milk were dispensed.



Public Health Advised Fund



NO MORE MARTYRS

- A grant to St. John AME Church supporting the third annual Minority Mental Health Summit and Pre-summit in offering training on dismantling mental health stigma and providing culturally-responsive care through mental health providers, educators and community members. Through this funding, scholarships were provided for community members to receive Mental Health First Aid training.

- Support for expanding access to Double Up Food Bucks, a healthy food incentive for Supplemental Nutrition Assistance Program (SNAP) recipients that matches the purchase of fresh fruits and vegetables using SNAP benefits, up to \$20 per market day, at participating markets. During the year, Double Up Bucks expanded healthy food access through four farmer's markets and four Corner Market stops in Jefferson County.



Double Up Bucks marketing flyer.



- A grant to the UAB School of Public Health supporting the LGBTQ Health Studies Endowment to better assess and respond to the health needs of the LGBTQ population within Jefferson County.

- Support to Freedom Source through the Addiction Prevention Coalition enabling the 2018 - 2019 implementation of an evidence-based curriculum designed to prevent substance use and abuse.



Addiction Prevention Coalition



- A grant to Birthwell Partners for the implementation and evaluation of a project providing doula support to high-risk pregnant women with Medicaid to reduce preterm birth, pregnancy and delivery complications and infant mortality.

Environmental Health

The Environmental Health Division of the Jefferson County Department of Health (JCDH) consists of Food and Lodging Protection (FLP), Community Environmental Protection (CEP), Community Assessment and the Air and Radiation Protection Division (ARPD).

FLP regulates, permits, inspects, investigates complaints, and enforces action at food establishments in Jefferson County. Food establishments include restaurants, food stores and institutional kitchens that sell, prepare or serve food. FLP also regulates lodging facilities, communal living facilities and childcare centers. FLP provides food safety information and offers guidance to food handlers on sanitary operation and compliance with governmental regulations.

In 2018, FLP enhanced its online fee payment system for food establishments. With system improvements, the number of food permits renewed, invoices paid, and permit fees collected online increased between 37% and 39% for each indicator.

FLP tracked a recall of locally produced eggs during the year. As part of the investigation of this multi-state outbreak of Salmonella enteritis, FLP ensured that contaminated eggs were no longer available in Jefferson County retail and food service markets.

The Sadie Andrews Act, an Alabama law requiring that grease trap covers be secured to prevent accidental or unauthorized entry, was passed in 2018. The Alabama Legislature designated state and local health departments, including JCDH, as the enforcement branch of this law.



Cast iron cover securing grease trap.

Permits	
FOOD PERMITS/ESTABLISHMENTS	NUMBER
Food Service Establishment	1,780
Limited Food Service	780
Limited Retail Food Store	322
Retail Food Store	211
Childcare Center (food permit)	203
Temporary Food Service Vendor	199
Public School Lunchroom	159
Mobile Food Vendor	150
Bar and Lounge	146
Ballpark Concession Stand	130
Food Processor	77
Nursing Home Kitchen	51
Senior Feeding Site	32
Private School Lunchroom	24
Other Institutional Kitchen	18
Hospital Kitchen	14
Charitable Non-Permitted Food Establishment	9
Jail and Prison Food Service	6
Summer Feeding Site	6
Total Permitted (Food)	4,317
OTHER FACILITY PERMITS BY TYPE	
Childcare	287
Hotel/Motel	130
Communal Living	61
Camp	8
Total Other Facilities Permitted	486
Total Permitted Facilities	4,803

Environmental Health

Inspections

INSPECTIONS BY TYPE	NUMBER OF INSPECTIONS
Food	13,643
Lodging (hotel/motel)	129
Childcare	67
Communal Living	60
Camp	5
Total All Inspections	13,904

Complaint Investigations

Total Complaints Received	987
Total Complaint Investigations	1,591

Food Safety Education

FOOD HANDLER TRAINING BY TYPE	PARTICIPANTS
Online	12,576
Classroom (at JCDH)	1,777
Satellite (offsite)	248
Total	14,601

Certified Manager Course

Participants	370
Certificates Issued	215
Classes/exams	18



Valley Creek Clean-Up 2018.

The Community Environmental Protection (CEP) program of the Environmental Health Division includes the Onsite Sewage, Public Swimming Pool, Community Sanitation, Rabies and Vector Control, Body Art and Watershed Protection sections. Each section completes inspections, conducts investigations and provides education on environmental health issues affecting Jefferson County. Investigations of environmental concerns and inspections of select facilities allow JCDH to monitor compliance with regulations; however, education is a proactive means of preventing health concerns and improving environmental health conditions.

Environmental Health

Staff from the Onsite Sewage section participated in the Alabama Department of Public Health's "Soil and Site Evaluator" training for Environmental Health Specialists. During 2018, CEP conducted a certification course for community pool/spa operators with 100% of the participants receiving certification.

The Watershed Protection section presented training on erosion and sedimentation control and Stormwater Standard Operation Procedures for forty-nine builders and municipal officers. Additional community education on stormwater protection was offered through pamphlets entitled, "How to Keep Our Water Clean," "Protecting Streams and Storm Drains from Pet Waste Pollution," and "Proper Disposal of Pesticides."

JCDH and the Valley Creek Cleanup Committee, a community-wide partnership, held the 8th Annual Cleanup on Valley Creek Watershed from March 15 to March 17, 2018. Over 15.65 tons of trash and debris and 1.1 tons of tires were removed from the roadside and creek by JCDH staff and over 475 volunteers during this event.



Trash and debris collected at the Valley Creek Clean-Up.

Permits

PERMIT TYPE	NUMBER
Mobile Home Park	54
Body Art Facility	44
Solid Waste Transfer Station	2

Complaint Investigations

COMPLAINT TYPE	NUMBER
Sanitation	1,114
Animal Exposure	996
Onsite Sewage Disposal	347
Water Quality	331

Inspections

INSPECTION TYPE	NUMBER
Onsite Sewage Disposal	2,589
Pool/Spa	2,023
Stormwater Samples	831
Industrial Stormwater Runoff	473
Garbage Hauler	212
Mobile Home Park	108
School and Jail	104
Body Art Facility	85
Solid Waste Facility	15
Transfer Station	4

Environmental Health

The Community Assessment program of the Environmental Health Division houses the Alabama Department of Public Health Tobacco Prevention and Control Program for Jefferson County. The 2018 - 2019 Tobacco Prevention and Control Work Plan included educating municipal leaders and residents through presentations made to the Irondale City Council and a community conversation held on June 21, 2018. These activities highlighted the health consequences of second-hand smoke in indoor venues and the benefits of comprehensive smoke-free policy. Assessment of another municipality in Jefferson County for consideration of a comprehensive smoke-free policy was initiated in 2018. With increased vaping among high school and middle school students, the Community Assessment program continued to stay up-to-date with warnings from the Food and Drug Administration (FDA) regarding the use of flavors in vaping products and youth marketing strategies.



Alabama's Tobacco Prevention and Control Coordinators.



The United Way of Central Alabama awarded JCDH a grant to conduct six focus groups in four Department of Housing and Urban Development (HUD) managed housing authorities in Jefferson County. Focus groups determined residents' smoking cessation needs and provided information about residents' understanding of smoking cessation information. Specifically, the focus groups identified the need for one-page, easy to understand information addressing the side effects of smoking cessation products. Using the Centers of Disease Control and Prevention (CDC) guidebook, "Simply Put," information sheets were developed using evidence-based principles to create easy-to-read, culturally-appropriate documents for distribution to JCDH patients interested in smoking cessation.

Community Assessment completed a Health Impact Assessment report on litter characteristics and impacts at thirty-two sites in municipalities with current Alabama Department of Environmental Management (ADEM) stormwater permits. Program staff also coordinated meetings of the Jefferson County Environmental Quality Committee which recently published the *Jefferson County Community Resources* document available from the following link: [https://www.jcdh.org/SitePages/Programs-](https://www.jcdh.org/SitePages/Programs-Services/EnvironmentalHealth/CommAssessDiv.aspx)

[Services/EnvironmentalHealth/CommAssessDiv.aspx](https://www.jcdh.org/SitePages/Programs-Services/EnvironmentalHealth/CommAssessDiv.aspx).

Environmental Health's Air and Radiation Protection Division (ARPD) is responsible for protection and maintenance of air quality within Jefferson County, public dissemination of current air quality information, and the control of radiation exposure from x-ray equipment and tanning beds.

2018 Air and Radiation Protection Division Activities

ACTIVITY	NUMBER COMPLETED
Facilities Receiving Gasoline Air Sticker	967
Industrial Source Inspection	406
Complaint Investigation	327
Air Permits Issued	304
Tanning Bed Inspection	264
X-Ray Facility Inspection	171
Tanning Facility Inspection	44
Open Burning Authorization	10

ARPD consists of the Air Pollution Control program, the Air Monitoring program and the Radiological Protection program. The Air Pollution Control program regulates industrial and area sources of emissions through compliance, inspection and enforcement; it also controls open burning and limits asbestos exposure. The Air Monitoring program operates a network of air monitoring stations throughout Jefferson County to monitor ambient air quality. Air quality data is used to determine compliance with the Environmental Protection Agency's (EPA) National Ambient

Air Quality Standards (NAAQS) for criteria pollutants and to issue daily air quality forecasts using the Air Quality Index. The Radiological Protection program evaluates operating procedures and inspects x-ray and tanning equipment and facilities within Jefferson County.

Emergency Preparedness and Response

The Jefferson County Department of Health (JCDH) Emergency Preparedness and Response program focused on preparedness and response activities for mitigating the impact of public health emergencies. During 2018, JCDH employees completed an Incident Command System (ICS) training course as part of a quality improvement initiative designed to increase staff competence and confidence in utilizing ICS concepts. ICS is a management system designed to enable effective and efficient management of domestic incidents. This training resulted in a statistically significant increase in staff knowledge of ICS concepts.



Incident Command Quality Improvement Team.

The Jefferson County Healthcare Coalition (HCC), a voluntary group of which JCDH is a member, maximizes response capacity and capability before, during and after medical and public health emergencies. The HCC Leadership Team was activated on January 10, 2018 to address the medical surge associated with seasonal influenza (flu). Local hospital emergency departments were at or beyond capacity due to flu cases and had limited inpatient bed availability. At the request of the Jefferson County Health Officer, Mark Wilson, MD, the Alabama Department of Public Health began working with the Governor of Alabama on a public health emergency declaration. Governor Kay Ivey declared that a State Public Health Emergency existed in Alabama due to the outbreak of influenza on January 11, 2018.

On February 28, 2018, the HCC conducted its first annual Coalition Surge Test to identify gaps in surge planning through an exercise with little or no advance notice. The exercise was based on the potential health care system disaster challenge of evacuating a hospital or other patient care facility.



Point-of-Dispensing (POD) Drill.

JCDH and community partners participated in a Point-of-Dispensing (POD) Drill at the Gardendale Civic Center on April 3, 2018. A POD is a community-based dispensing location for vaccinations and medication utilized during a public health emergency. Drills and exercises, such as this POD Drill, allow the community to test response capabilities to emergencies in real time.

The HCC also conducted two sessions of a tabletop public health emergency exercise, "A Plague on the System," on September 13, 2018 in preparation for a Full Scale Exercise (FSE) in October 2018. The October 2018 FSE tested medication distribution procedures and the individual facility emergency operations plans of forty-nine participating health care facilities.

Finance and Administration

The Finance and Administration Division is comprised of General Services, Management Information Systems, Public Relations, Human Resources, Vital Records and Accounting.

General Services is responsible for facility management of sixteen JCDH properties including renovation, remodeling, maintenance, custodial services, overall safety and security, landscaping, and upkeep of grounds. General Services also maintains the operations and activities of the Print Shop and Record Management.

Projects initiated or completed in 2018 include: renovation of the third,



Renovation of the Guy M. Tate Building.



fourth and fifth floors of the Guy M. Tate Building; repair of the Guy M. Tate Building Plaza and underlying support structure; installation of additional surveillance cameras on JCDH grounds; initiation of research for 2019 projects, including conversion to an electric fleet of JCDH vehicles and constructing a pedestrian bridge connecting the Guy M. Tate parking deck and the Annex building parking lot.

A top technology priority for JCDH in 2018 continued to be system upgrades. Management Information Systems (MIS) finalized dozens of internal web solutions to the latest Microsoft technology offerings, and updated more than 200 employee workstations, the CISCO phone system and the datacenter redundant power system. MIS began laying the foundation for a faster internal network by upgrading fiber optic cabling at JCDH Health Centers.



Screenshot of JCDH's new website design.

Throughout 2018, MIS worked with the Clinical Services Division to implement a new, industry-leading electronic medical record system. MIS partnered with multiple JCDH Divisions to implement a new website design and management system and expand JCDH's Geographic Information System (GIS) mapping assets.

Public Relations capitalized on the use of digital media during 2018 to enhance communication with patients, clients, community partners, JCDH employees, and the general public. Launched in 2016, JCDH's social media program has quickly become a resource for a variety of health-related information and provides an additional method for bidirectional communication with the public. During January 2018, when Jefferson County emergency rooms were at capacity and doctors' offices were reporting spikes in patients with flu-like illnesses, a single JCDH tweet on flu prevention and treatment using JCDH's Twitter account (@JCDHTweets) garnered more than 15,000 impressions. During that same month, a video on social media featuring JCDH's Deputy Health Officer, David Hicks, DO, MPH, sharing flu information received nearly 1,500 impressions.



JCDH Social Media Influence

SOCIAL MEDIA DATA	NUMBER
JCDH Facebook Followers	969
JCDH Facebook Likes	928
JCDH (@JCDHTweets) Twitter Followers	241

Finance and Administration

Human Resources facilitated the hiring of forty full-time employees and thirteen interns in 2018. Additionally, twelve retirement applications were processed. The annual Employee Team Building Experience conducted in November 2018 promoted employee cross-collaboration and team building skill development. At the Team Building Experience, employees received training in cultural competency and cybersecurity, and participated in several team building exercises.



In addition to annual Corporate Compliance Training, Human Resources arranged Active Shooter Training for all current employees and added this training to the orientation for new hires. A mobile safety alert system was implemented, providing the ability to quickly text, email and call employees in an emergency or during inclement weather.



Vital Records issued over 82,000 birth, death, marriage and divorce certificates in 2018.

2018 Vital Record Certificates Issued	
CERTIFICATE TYPE	NUMBER OF CERTIFICATES
Death Certificate	47,517
Birth Certificate	33,439
Marriage Certificate	1,483
Divorce Certificate	495



2018 GENERAL FINANCIAL INFORMATION

Revenues (General Fund - \$47,750,773)

1. Ad Valorem Tax Revenue (\$7,288,198 - 15% of General Fund Revenues)

Alabama Act 77-231 provides that the County (and municipalities within the County) shall pay to the Board of Health annually a sum not less than 2% or more than 6% of all ad valorem taxes collected within Jefferson County, excluding ad valorem taxes collected for the State of Alabama and all Boards of Education located in Jefferson County. These funds are forwarded to the Jefferson County Department of Health as the taxes are collected.

2. Sales Tax Revenue (\$23,907,097 - 50% of General Fund Revenues)

JCDH receives approximately one-fifth of every one cent of Jefferson County sales tax.

3. State & Federal Contracts (\$2,024,107 - 4% of General Fund Revenues)

These are primarily dollars received from the Alabama Department of Public Health (ADPH) resulting from contracts or subcontracts to administer specific public health responsibilities for Alabama Public Health Area 4, Jefferson County. Examples include developing community and educational programs and monitoring activity in nationally identified public health focus areas such as Maternal/Child Health, Family Planning, Immunization, Tuberculosis, Sexually Transmitted Diseases and Hepatitis.

4. Clinical Health Care Revenue (\$8,506,391 - 18% of General Fund Revenues)

This category represents the amount of reimbursement received for all clinic-related services provided by JCDH. These services include pediatric and adult primary care, family planning and dental care. Using the Federal Poverty Guidelines, JCDH offers a reduced fee for service for patients meeting financial and residential guidelines. Approximately 18% of JCDH's reimbursement is attained from patients, 73% from Medicaid, 7% from Blue Cross, and the remaining 2% from all other payers combined (e.g., Medicare, United Healthcare, etc.).

5. Environmental Health Services (\$3,062,399 - 7% of General Fund Revenues)

This category represents reimbursement received locally for environmental health services. State law allows fees to be charged to help cover the cost of many of the services provided by the Environmental Health Division such as restaurant inspections, septic system plans and inspections, air pollution permit fees, open burning permits, radiological equipment inspections and food handler training.

6. Other Revenue (\$2,962,581 - 6% of General Fund Revenues)

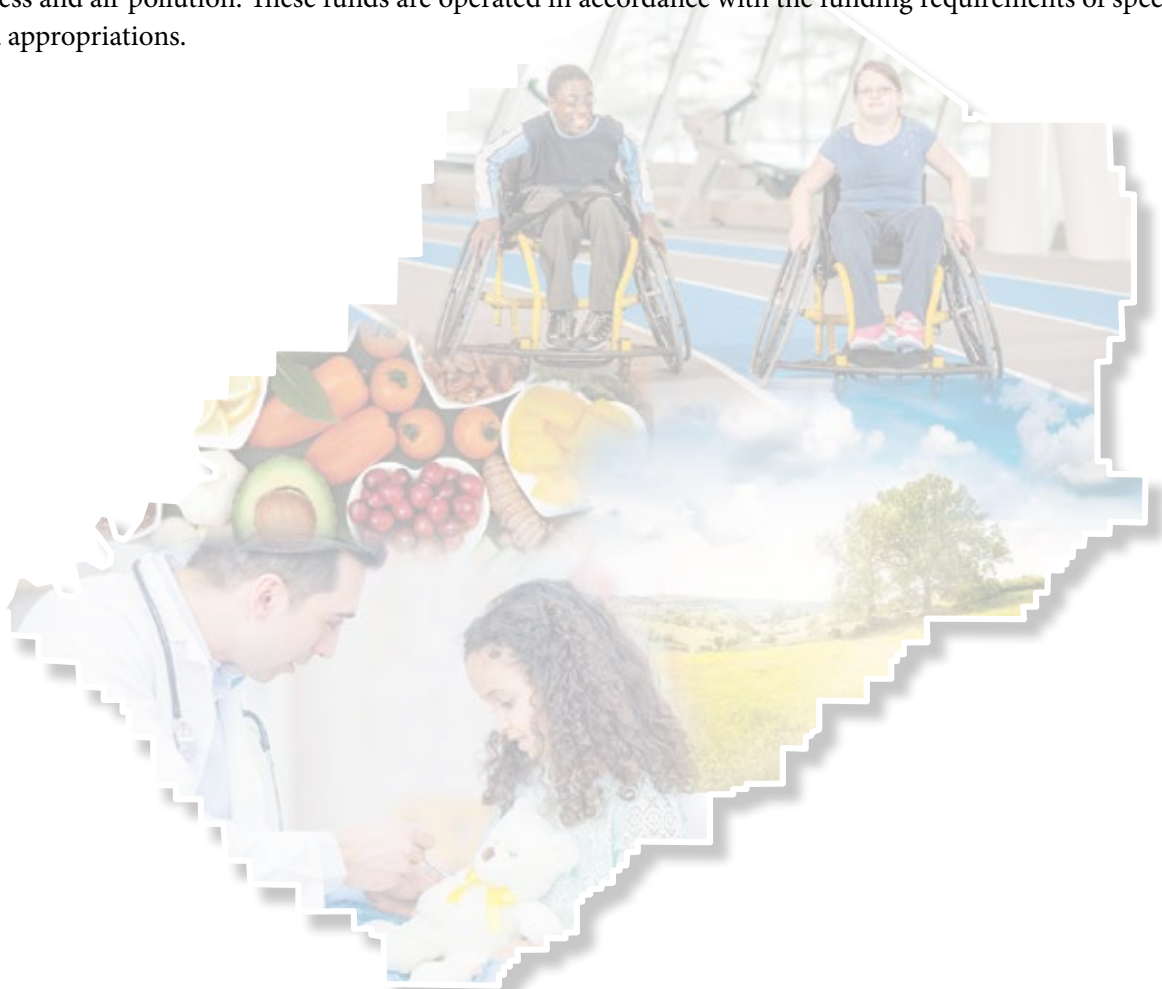
This category is primarily reimbursement received for indirect costs (administration and building overhead) associated with federal grants and contracts such as the Special Supplemental Nutrition Program for Women, Infants and Children (WIC) and Air Pollution. Also included are allowable fines levied for violation of public health laws (e.g., air pollution violations), rental fees, parking lot and meter receipts and fees received for copies of vital records. This category also includes earnings from cash and investments. All investments are based on a Board of Health approved investment policy that strictly follows state and county guidelines.

Expenditures (General Fund - \$43,995,891)

Expenditures are generally classified by major public health program with administrative costs and the Capital Fund transfer separately identified.

General Fund Expenditures, 2018		
Category	Amount	Percent of Total
Salaries and Benefits	\$32,575,257	72%
Materials and Supplies	\$7,439,913	16%
Contract Services	\$4,212,092	10%
Uncollectable Debt	\$-231,644	-1%
Capital Fund Transfers	\$1,200,000	3%
Total	\$43,995,891	100%

JCDH also has fourteen Special Revenue Funds totaling \$6,676,883. Funding is received from federal awards passed through JCDH and designated for activities related to immunization, nutrition, storm water, emergency preparedness and air pollution. These funds are operated in accordance with the funding requirements of special grants and appropriations.



Jefferson County Health Statistics, 2017

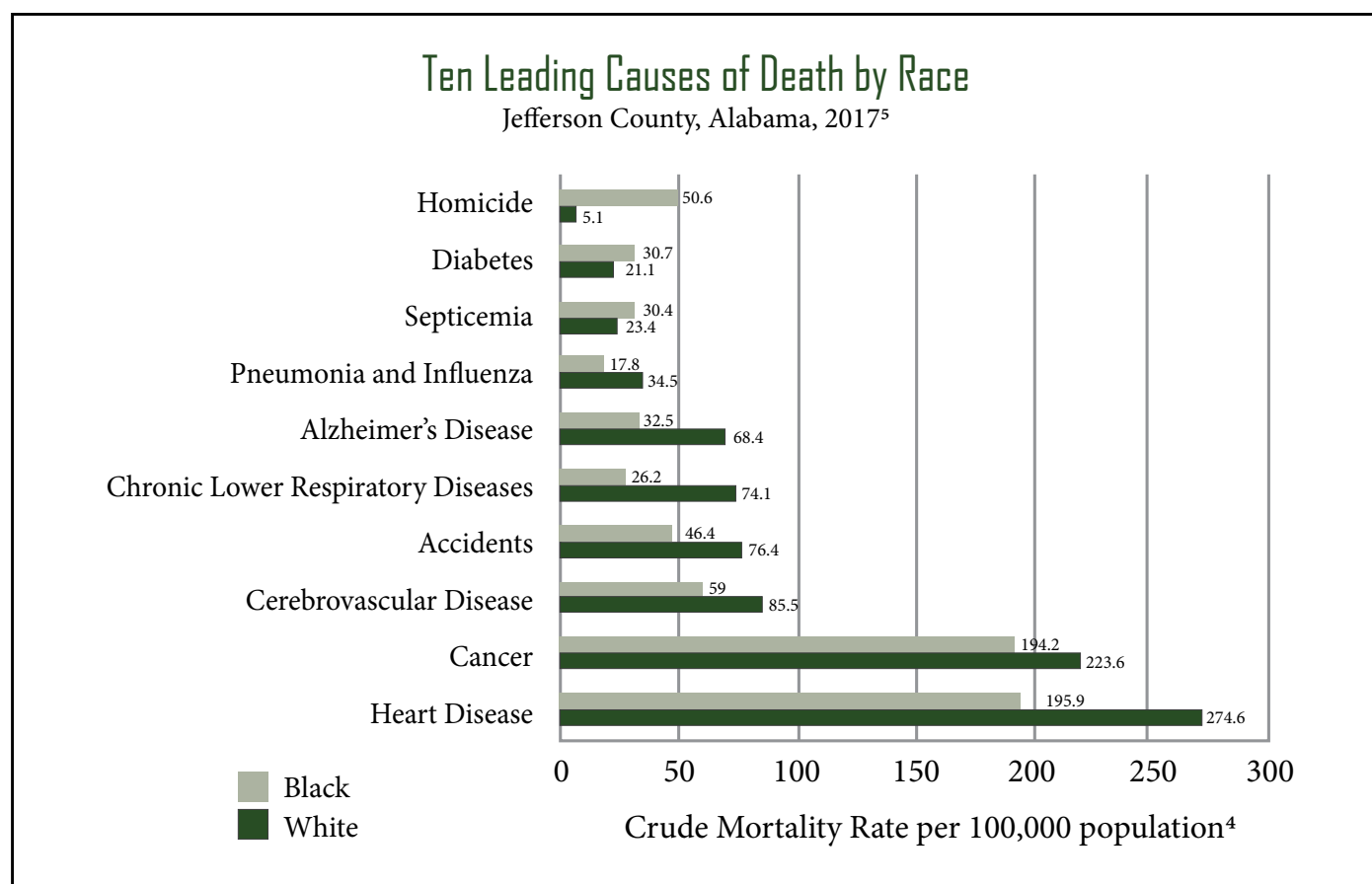
Jefferson County's Population By Age (2017 Census Bureau Estimates)	Age	Residents
	<1 year ¹	8,704
	1 - 14 years	117,275
	15 - 24 years	83,615
	25 - 64 years	348,127
	65 years and older	101,476
	Total	659,197

Maternal and Child Health, 2017 (number and rate or percent)				
	Number	Jefferson County	Alabama ²	United States ³
Live Births (women ages 15 - 44)	8,704	64.1 per 1,000	61.9 per 1,000	60.3 per 1,000
Low Birthweight Births (<2,500 g)	830	9.5%	8.3%	8.3%
Very Low Birthweight Births (<1,500 g)	204	2.3%	1.9%	1.4%
Live Births to Teens (women ages 15 to 19)	517	25.9 per 1,000	27.0 per 1,000	18.8 per 1,000
Infant Mortality (Among live births)	91	10.5 per 1,000 live births	7.4 per 1,000 live births	5.8 per 1,000 live births
<i>Note:</i> All birthweight and infant mortality data is based on live births				

Communicable Diseases, 2017 (rates per 100,000 population)			
	Jefferson County	Alabama ³	United States ³
Chlamydia	914.5	615.5	528.8
Gonorrhea	442.7	245.7	171.9
Syphilis (primary & secondary)	14.7	8.7	9.5
Tuberculosis (TB)	2.7	2.5	2.8

Jefferson County Health Statistics, 2017

Chronic Diseases, 2017 (Crude Mortality Rate per 100,000)		
	Jefferson County	Alabama ²
Cancer	232.4	268.8
Heart Disease	204.3	213.7
Stroke	72.2	60.1
Alzheimer's Disease	50.5	52.6
Diabetes	25.2	24.0



1. Alabama Vital Records Database

2. Alabama Department of Public Health (ADPH); www.adph.org/healthstats

3. Centers for Disease Control and Prevention (CDC); www.cdc.gov

4. Rates are based on the 2017 American Community Survey 1-year estimates for Jefferson County; www.census.gov

5. Accidental deaths include deaths due to unintended drug overdose

*2018 Selected Health Statistics will be available in the 2019 Annual Report



JEFFERSON COUNTY
DEPARTMENT OF HEALTH