

St. Joseph County Department of Health

2018 Annual Report



Luis Galup, MD
Health Officer

Mark D. Fox, MD, PhD, MPH
Deputy Health Officer

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Board of Health Members

President

Dale D. Deardorff, MD
Appointed by Mayor of Mishawaka
Independent, Term Expires December 31, 2019

Vice President

Karen Davis, MD
Appointed by the Mayor of South Bend
Independent, Term Expires December 31, 2018

Secretary

Luis Galup, MD
Health Officer

Members

Heidi Beidinger-Burnett, PhD, MPH
Appointed by the Mayor of South Bend
Democrat, Term Expires December 31, 2019

Emily Dean
Appointed by the Mayor of South Bend
Democrat, Term Expires December 31, 2020

Sharon Imes, RN, MSN, CEN
Appointed by the County Commissioners
Democrat, Term Expires December 31, 2020

John Linn
Appointed by the County Commissioners
Republican, Term Expires August 21, 2022

Jason Marker, MD
Appointed by the County Commissioners
Republican, Term Expires August 21, 2022

Board Attorney

J. David Keckley, JD

Mission, Vision and Value Statements

Mission

To promote physical and mental health and facilitate the prevention of disease, injury and disability for all St. Joseph County residents.

Vision

Healthy people in a healthy St. Joseph Community

Values

Daily we will:

Carry out the MISSION of the Health Department while striving to achieve EXCELLENCE in our work product and interactions with customers and coworkers.

Exhibit INTEGRITY in the workplace, always being truthful, honest and trustworthy.

Show RESPECT to customers, supervisors, coworkers and oneself.

Display a POSITIVE ATTITUDE.

ADVOCATE for our community's health.

Health Officer

After the retirement of the Health Department Administrator, Mr. Nick Molchan, on July 6, 2018, I absorbed his administrative duties and continue with my Health Officer statutory requirements.

After Dr. Mark Fox was elected Deputy Health Officer in charge of the Lead Program, Immunizations, Health Education and Epidemiology I continue to exercise managerial duties over the Environmental, Foods, Vital Records and the Public Health and Tuberculosis programs of the Nursing Department.

The budget of the Health Department was approved for a significant increase over the previous year's allowing for raises for all the Health Department employees.

St. Joseph County Health Department Staff

Staffing as of 12/31/2018

Luis Galup, MD – Health Officer

Mark D. Fox, MD, PhD, MPH – Deputy Health Officer

Mary Rooney – Executive Assistant

Amy Ruppe – Finance Manager

Epidemiology & Emergency Preparedness

Elizabeth McCue – Supervisor

Paul Burrows – Local Public Health Coordinator

Environmental Health Services

Linda Mauller, BS – Director

Mark Espich – Assistant Director

Denise Kingsberry – Administrative Assistant

LaTeesha Wright – Staff Assistant

Brett Davis

John Engstrom

Amber McNeill

Jeff Murawski

David Ekkens

Patrick Sovinski

Josiah Hartman

Cassandra White

Briannah McCall

Food Services

Carolyn Smith, BS, – Director

Karen Flanigan, BA, CP-FS – Assistant Director

Pam Thompson – Administrative Assistant

Sharyl Smith – Staff Assistant

Susan Burnett, BS

Melissa Papp

Lynette Wesby

Audrey Funk

Jake Parcell

Health Education

Robin Vida, MPH, CHES – Director

Kristen Borrelli, BS, CHES

Sally Dixon, RN

Kirsten Zalas, BS, CHES

Nursing

Christine Hinz, BSN, RN – Director

Neiko Rust, RN – Assistant Director

Nancy Pemberton, BSN, RN – Assistant Director

Donna Donlin-Sriver – Medical Records/Staff
Assistant

Carol Frazee – Billings Clerk

Janice Boyk, MSN, BSN, RN

Lauren Gunderson, BSN, RN

Deborah Hiles-Gaddy, BSN, RN

Lisa Larson, BSN, RN

Danielle Laskowski, RN

Lori Montgomery, MSN, BSN, RN

Summer Murdock, RN

Cynthia Lockhart, RN

Paula Sulentic

Connie Wawrzyniak

Danielle Sims (Grant PT)

Abigail Maxwell, RN

Vital Records

Ericka Tijerina, BS – Supervisor

Zamiki Chism – Assistant Supervisor

Denise Kingsberry

Kimyon Woods-Holt

Sue Sjoberg

Katie Way

Financial

During FY2018, the Health Department saw an increase in fee revenue, which, when compared to 2017, was up by approximately 10%. This increase in fee revenue is the largest in over 10 years. Also, the Health Department saw a slight increase in tax revenue, which when compared to 2017, was up by approximately 3%.

Grants Awarded to the St. Joseph County Health Department:

- A \$50,000 ISDH grant for our Health F.I.M.R. program
 - (valid 10/01/17 thru 09/30/19)
- A \$12,000 Memorial Hospital grant for our Health F.I.M.R. program
 - (valid 10/01/17 with no expiration) - \$6,000 received 11/17 and \$6,000 received 10/18
- A \$12,000 St. Joseph Regional Medical Center grant for our Health F.I.M.R. program
 - (valid 10/01/17 with no expiration) - \$6,000 received 12/17
- A \$115,871 ISDH grant for our Immunization CoAg program
 - (valid 07/01/18-06/30/19)
- A \$72,672 ISDH grant for our Local Health Maintenance program
 - (valid 01/01/18 thru 12/31/18)
- A \$95,631.31 ISDH grant for our Local Health Department Trust Account
 - (valid 01/01/18 thru 12/31/18)

In addition to the grants listed above, the Department of Health also had a new fund established by the County Council, County Commissioners and Auditor's Office that was labeled "County-Wide Lead Initiative". The Council, Commissioners and Auditor's set up the new fund and appropriated \$200,000 to it during 2018.

Overview of Revenue and Expenditures

	2016	2017	2018
County Health Fund Tax Revenue	\$1,616,320.20	\$1,312,605.86	\$1,444,633.26
County Health Fund Fee Revenue	\$1,375,772.33	\$1,412,950.55	\$1,454,393.21
County Health Other Revenue	\$400.00	\$4,594.43	\$9,084.37
Grant Revenue	<u>\$418,155.16</u>	<u>\$214,942.12</u>	<u>\$513,380.17</u>
TOTAL REVENUE	\$3,410,647.69	\$2,945,092.96	\$3,421,491.01
County Health Fund Expenditures	\$2,407,381.33	\$2,374,311.63	\$2,356,095.21
Grant Expenditures	<u>\$438,381.52</u>	<u>\$322,486.54</u>	<u>\$250,489.60</u>
TOTAL EXPENDITURES	\$2,845,762.85	\$2,696,798.17	\$2,606,584.81

County Health - Fund 1159

To provide services to the citizens of St. Joseph County, Indiana

Tax Revenue & Fee Revenue													
2018													
Beginning Balance	January	February	March	April	May	June	July	August	September	October	November	December	Year-To-Date
REVENUE													
Tax Revenue	\$5,020.51	\$0.00	\$0.00	\$0.00	\$0.00	\$786,210.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$653,401.82	\$1,444,633.26
Fee Revenue	\$226,214.63	\$196,593.65	\$118,574.47	\$107,149.75	\$95,806.73	\$113,164.87	\$78,568.36	\$114,187.12	\$99,009.61	\$118,951.08	\$96,952.62	\$89,220.32	\$1,454,393.21
Other Revenue	\$0.00	\$0.00	\$0.00	\$6,826.46	\$0.00	\$15.16	\$1,577.70	\$0.00	\$0.00	\$0.00	\$3,171.80	(\$2,506.75)	\$9,084.37
TOTAL REVENUE	\$231,235.14	\$196,593.65	\$118,574.47	\$113,976.21	\$95,806.73	\$899,390.96	\$80,146.06	\$114,187.12	\$99,009.61	\$118,951.08	\$100,124.42	\$740,115.39	\$2,908,110.84
EXPENDITURES													
Salary & Benefits	\$139,268.42	\$140,251.23	\$585,957.79	\$137,577.36	\$131,473.16	\$200,428.35	\$138,787.44	\$129,483.03	\$141,358.06	\$138,080.43	\$208,620.81	\$133,652.46	\$2,226,938.54
Supplies	\$1,877.38	\$2,011.95	\$2,209.50	\$2,744.89	\$3,146.57	\$4,874.28	\$2,943.81	\$2,241.96	\$1,155.44	\$1,437.81	\$483.18	\$940.92	\$26,067.69
Other Services and Charges	\$13,560.62	\$26,091.16	\$1,417.82	\$3,172.49	\$7,808.42	\$2,844.77	\$6,599.75	\$1,323.37	\$9,056.42	\$11,482.46	\$4,545.70	\$15,186.00	\$103,088.98
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL EXPENDITURES	\$154,706.42	\$168,354.34	\$589,585.11	\$143,494.74	\$142,428.15	\$208,147.40	\$148,331.00	\$133,048.36	\$151,569.92	\$151,000.70	\$213,649.69	\$151,779.38	\$2,356,095.21
MONTHLY SURPLUS / (SHORTFALL)	\$76,528.72	\$28,239.31	(\$471,010.64)	(\$29,518.53)	(\$46,621.42)	\$691,243.56	(\$68,184.94)	(\$18,861.24)	(\$52,560.31)	(\$32,049.62)	(\$113,525.27)	\$588,336.01	
ACCUMULATIVE SURPLUS / (SHORTFALL)	\$1,508,234.61	\$1,536,473.92	\$1,065,463.28	\$1,035,944.75	\$989,323.33	\$1,680,566.89	\$1,612,381.95	\$1,593,520.71	\$1,540,960.40	\$1,508,910.78	\$1,395,385.51	\$1,983,721.52	

Epidemiology & Emergency Preparedness

The Epidemiology & Emergency Preparedness Division is responsible for:

- Communicable disease investigation and surveillance*
- Medical countermeasure dispensing planning
- Coordination of Emergency Support Function #8
- Emergency preparedness collaboration with other response agencies
- Emergency preparedness training and education
- Coordination of the local Medical Reserve Corps branch

The Epidemiology* & Emergency Preparedness Division provided support to other Divisions within the Health Department in the investigation and surveillance of communicable disease and public health threats. The Division provided data to community workgroups as requested and compiled natality and mortality reports.

*The Epidemiologist and Emergency Preparedness Supervisor position was filled in August of 2018. Once the position was filled, the epidemiologist participated in the review of infant and child deaths through the feto-infant mortality and child fatality review teams. Surveillance was conducted on influenza, overdose deaths, and suicide deaths. Additionally, the epidemiologist coordinated meetings of the inter-division Lead Action Team.

The Local Public Health Coordinator continued to conduct quarterly meeting of the Emergency Support Function 8 Group and quarterly call down drills. Two Closed Point of Dispensing sites (PODs) were added to the Mass Prophylaxis Plan. Thirteen presentations about a closed POD opportunity were given at local businesses and health care facilities in 2018. Allied Physicians was added as an alternated care site. Currently fourteen memorandums of understanding documenting closed POD agreements have been submitted for St. Joseph County.

The Medical Reserve Core of St. Joseph County continues to be housed within the Epidemiology and Emergency Preparedness Division. Two Medical Reserve Core (MRC) call down drills were conducted, and seven MRC recruitment presentations were made at local businesses and universities. The Local Public Health Coordinator recruited members of the MRC to participate in staffing a Sunburst Race water station. A call for volunteers on behalf of the Indiana State Department of Health was made. Currently eighty-five people have registered as MRC members in St. Joseph County.

Both Members of the Epidemiology and Emergency Preparedness Division attended District 2 Healthcare Coalition and Local Health Department Meetings. The division was represented at the District 2 functional exercise and participated in monthly call-down drills. The Local Public Health Coordinator participated in the Unity Hospital Functional Exercise.

New members of the Department of Health were trained by Emergency Preparedness staff on emergency policies and procedures. Additionally, several employees were instructed on operation of the Emergency Response Vehicle. The Emergency Response Vehicle was maintained, and new graphics were applied to the exterior using division resources.

Environmental Health Services

The Environmental Health Division continued to help maintain a healthy community by implementing the following environmental health programs that protect our community from pathogens in the environment:

- Septic System Permitting and Inspection Program
- Subdivision Planning and Review Program
- Wellhead Protection Permitting and Inspection Program
- Well Drilling and Water Supply Permitting Program
- Source Water Protection Program
- Lead and Healthy Homes Program
- Concentrated Animal Feeding Operations Permitting and Inspection Program
- Air Quality Program
- Vector Program
- Solid Waste Disposal Program
- Massage Permitting and Inspection Program
- Tattoo and Body Piercing Permitting and Inspection Program

Accomplishments in 2018

Source Water Protection Program

The Division oversaw the monitoring and assisted with sampling of drinking water wells contaminated with road salt in a Granger neighborhood and provided technical assistance to State and Federal agencies involved in the Galen Myers Superfund Site.

Staffing

One Environmental Health Specialist resigned and one EHS was terminated, but hired two others so that all division positions will be filled as of January 2019.

Other Programs

Other programs proceeded as planned with no significant issues.

Work Activities	2016	2017	2018
Septic Program			
Inspections Performed	984	989	1,059
Consultations Performed	16	42	79
Subdivision Program			
Health Officer Reports	28	35	33
Subdivision Reviews	39	53	39
Rezoning & Replat Reviews	15	14	15
Wellhead Program			
Inspections Performed	136	193	114
Well Drilling Program			
On-Site Inspections Performed	172	180	148

Well Abandonments	191	179	162
Source Water Program			
Phase I Inquiries	124	127	124
Spill Responses	3	3	0
Meth Lab Occurrence Response	10	2	2
Other Source Water Inspections	89	64	37
Surface Water Program			
Surface Water Sampling	1	11	0
Lead Program			
HUD Lead Inspections	0	0	1
Lead Risk Assessments	41	52	35
Public Information Events	3	6	36
Children Tested for Lead Poisoning*	1792	4241	4159
CAFO Program			
Inspections Performed	0	0	0
Air Quality Program			
Indoor Air Quality Investigations	0	0	0
Mold Investigations	1	0	0
Vector Program			
Larvicide Swimming Pools/Stagnant Water	24	27	29
Healthy Homes Program			
Total Complaints	63	54	93
Dwellings Declared Unfit	5	0	10
Massage Program			
Establishment Inspections Performed	67	63	59
Tattoo/Body Piercing Program			
Inspections Performed	17	39	23

Complaints / Investigations			
Trash	45	47	110
Sewage	70	110	88
Water (ditches, lakes, ponds & swells)	18	18	4
Motels/Hotels	3	5	7
Burning	2	7	9
Other	38	39	63
Abatement Correspondence**			
Abatement Letters Sent	288	235	154
Immediate Threat to Public Health Letters Sent	0	2	12
Impending Legal Action Letters Sent	41	28	42

* There is a lag time between testing, reporting and entry into STELLAR, the system supported by the CDC Childhood Lead Poisoning Prevention Program. It can take up to a month for all the data to enter the system. In the monthly reports, the year-to-date total number of children tested for blood lead represents the number as of the end of the previous month. To maintain consistency, the December 2017 year-to date total is reported in the annual report.

**Misreporting and omissions were discovered while compiling this report. The total number of “Abatement Correspondence” is likely underreported.

Food Services

As the local regulatory authority, the St. Joseph County Department of Health's (SJCDH) Food Services acts as a representative of Indiana State Department of Health's (ISDH) division of Food Protection. Food Services is sanctioned by law to ensure that food establishments, in St Joseph County, operate in compliance with state laws, federal regulations and the county ordinances.

2019 Accomplishments

Our Food Safety Inspection Officers performed a combined total of 2,794 routine and temporary event inspections in 2018. An additional 170 inspections were conducted for the 82 annual and 78 seasonal pools that hold permits with SJCDH. Retail food inspections that were completed in 2018, equaled the number of inspections performed in 2017. However, inspection totals for both years were down about 12.5% from the total number of inspections completed in 2016. Staffing levels were a major factor contributing to fewer overall routine inspections being performed annually.

A Food Safety Inspection Officer (FSIO), was hired in January, to fill a position vacancy created by a staff promotion. A second FSIO was hired, in September, filling a position, that had been vacant since 2015. The additions of the two inspectors brought Food Division inspection staff to its maximum budgeted levels. Six (6) members of the Food Division staff attended Regional Training in Rochester, Indiana which was hosted by the Indiana State Department of Health Food Protection Program. Training highlights included discussions on guidance documents being the FDA's current thinking on a topic, the inherent risks food borne illness outbreaks have on public health, and produce food safety rules

The division's Assistant Director participated in a 2-day course for the 2013 FDA Model Food Code. The course covered code requirements and guidance and the associated public health reasons for the code provisions.

An additional Food Safety Inspection Officer (FSIO) attended and passed training for Certified Pool Operators held in Indianapolis. After completing a brief orientation period and onsite training, the FSIO became responsible for conducting all required pool inspections.

Food Services staff worked together with SJCDH Nursing staff, and ISDH Field Representative, Rapid Response Team and Epidemiologists to investigate a reported Possible Food Borne Illness outbreak that affected 90-100 individuals. College students and their families, from eight (8) states, that had attended a golf outing in St Joseph County reported symptoms of vomiting and diarrhea. Telephone interviews were conducted by Food and Nursing staff and ISDH sent surveys to all attendees. Although the outbreak occurred, at the same time of a nation-wide recall of Romaine lettuce, lab reports confirmed Norovirus and not E-Coli to be the cause of the local outbreak.

2019 Goals

Food Services will be transitioning to an Integrated Permit Processing/Economic Development System. The integrated system will be used by both Food Services and Environmental Division of the Health Department, along with St. Joseph County's Building Department, GIS, Area Plan Commission, Economic Development, and Public Works.

The system consists of custom designed modules that address the information management requirements of each of the specific departments and integrates with other modules to facilitate the communication and transfer of information within the various departments. Once the Food Service component is fully operational, the system's mobile application will enable food inspectors to access full establishment data records and generate inspection reports, while in the field, using their mobile device.

Food Division	2016	2017	2018
Complaints - Food Service	193	186	197
Complaints - Food Store	31	15	18
Certificates of Perfect Inspection	483	418	375
Abatement Correspondence	53	30	44
Health Officer Hearings	15	5	2
Number of Opening Inspections	189	199	181
Retail Inspections Completed	2416	2111	2112
Establishments Ordered to Cease Operations	15	5	7
Temporary Events	218	259	274
Temporary Inspections	858	638	682
Possible Food Borne Illness Investigations	9	5	7
Smoking Complaints	4	0	0
Fire Investigations	12	9	16
Pool Information			
Number of Inspections	154	117	170
Consultations	6	2	12
Pool Complaints	4	5	4
Closings	34	29	52
Staff Development			
Meetings and Trainings (Total in Hours)	136.25	138.75	199.25

Health Education

The Health Education Division promotes the health of St. Joseph County residents through primary prevention efforts. These include a variety of presentations, programs, events, and coalition activities.

Presentations and Event Numbers:

TOPIC	2016		2017		2018	
	School (K-College)	Adults	School (K-College)	Adults	School (PreK-College)	Adults
Wellness	232	125	441	90	775	124
Substance Abuse Prevention	0	4	0	4	26	15
Communicable Disease	4	9	5	11	2	11
Sexuality	52	6	30	7	63	2
Chronic Disease	0	0	0	2	0	7
TOTAL (presentations/participants)	432 (8,826)		590 (10,070)		987 (20,478)	

Total Number of Events (i.e. Health Fairs, Community Events, etc.)

	2016	2017	2018
	42	33	37
# of Participants	3,927	5,800	19,587

Highlighted Activities:

Lead Poisoning Prevention Efforts

- Continued throughout the 2018 with a ramp up of prevention education and outreach kicking off in October for National Lead Prevention week. In addition to numerous outreach events, we began our collaboration with the South Bend Community Schools to test children 6 and younger on site.

St. Joseph County Health Improvement Alliance

- During 2017, the alliance adopted a collective impact approach to improving community health. With 7 backbone organizations (St. Joseph County Health Department, St. Joseph Health System, Beacon Health System, MHIN, Oaklawn, United Way of St. Joseph County, and IU School of Medicine-South Bend) the group is currently identifying priority areas. With a new chair in 2018, the Department of Health is still providing executive leadership and are excited for things to come.

Reducing Obesity Coalition of St. Joseph County (ROC)

- In 2018 we continued our Let's Cook basic cooking classes and our walking school bus program adding on School City of Mishawaka for National Walk to School Day. Our annual ROC UR BODY Family Fun Fest saw over 10,000 people in Downtown South Bend and plans for a Mishawaka ROC UR BODY are in the works for Fall of 2019.

St. Joseph County Food Access Council

- This past year the SJC Food Access Council continued its efforts to complete the priority groups of our first food system assessment. We completed 7 focus groups and are beginning to use the information gained from the groups to plan next steps as well as development of the council to be a full coalition.

Fetal Infant Mortality Review (FIMR) Program

- We reviewed 21 cases of infant death (birth to 1 year) for 2018 and found that complications of prematurity remain the top cause of infant mortality in St. Joseph County. For the combined years of 2015 – 2018, we reviewed 84 cases finding that 64% of deaths are due to complications of prematurity, 19% due to Sudden Unexplained Infant Death, 10% due to other medical causes, 6% to congenital anomalies and 1% (1 case) due to abuse.
- While the FIMR Team reviewed the 27 infant cases available in 2017 and 21 cases in 2018, Indiana State Department of Health records report a total of 36 SJC cases for 2017 and 25 for 2018. The discrepancy is due to the cases where a SJC infant's death occurs in another county such as Indianapolis or Chicago. These cases are primarily prematurity and significant congenital anomalies that required immediate surgical intervention. Per either database, SJC did see a drop in the number of infant deaths from 2017 to 2018.
- In 2018, we completed our second year reviewing fetal deaths (Stillbirths ≥ 20 weeks gestation). Recommendations from the Case Review Team include pregnancy intention screening to improve preconception and interconception health, and increased awareness of and practice of fetal movement counts.
- Activities that were taken because of Case Review Team recommendations include the following (A full report on the Fetal Infant Mortality Review Program will be available in April 2019)
 - Safe sleep awareness and education- Stay Close. Sleep Apart Campaign
 - Pregnancy intention screening-The One Key Question®
 - Improved integration between clinical providers and social service agencies to move rates of referrals to home visiting programs.
 - Increases awareness of and education on fetal movement count- Count the Kicks ®
- The FIMR Coordinator applied for and was selected as a CityLeader with CityMatCH, a national maternal-child health public health organization focused on improving infant and maternal outcomes and addressing health equity in maternal-child health. Part of the CityLeader's program included attending the annual conference in September 2018 in Portland, OR. Because of this program, FIMR Coordinator was connected with Rosemary Fournier, the National FIMR Director

who now has a monthly phone call with Sally as a mentor and resource for FIMR activities. Rosemary recently invited Sally to participate on a FIMR panel at the Sept 2019 CityMatCH conference in Providence, Rhode Island. Sally also submitted an abstract for consideration to present at the conference on the topic of using FIMR data to increase the knowledge and effectiveness of community providers.

Nursing

The Nursing Division includes the Public Health Nursing Division, Lead case management and monitoring, the Immunization Clinics, including the Mobile Clinic, Tuberculosis case management, and Medical Records. The Nursing Division is committed to community and public health nursing. They are advocates for providing access to care to the citizens of St. Joseph County. Subject matter utilization and collaboration is offered to citizens and community partners through the various nursing programs. Nursing staff function in multiple roles within the Health Department and continue to expand their knowledge and skills.

Public Health Nursing

Public Health Nurses (PHNs) participate in monthly meetings with community residents that shop at the Babe Store regarding lead screening, lead monitoring and case management. We provide participates information on Hepatitis A and Hepatitis C regarding transmission, and prevention. The first part 2018, PHN's gave lectures regarding Hepatitis C and A as well as lead screening in children under the age of 7 at St. Margaret's House. We have been active with NNN (Near Northwest Neighborhood) monthly meetings. Presentations were also given at

- SBCSC (South Bend Community School Corporation) Kindergarten Roundup for spring of 2018
- Center for the Homeless
- La Casa de Amistad
- 2018 Agriculture (Ag Days) at the St. Joseph County Fairgrounds

Our PHNs also participated in October's 2018 lead week events which included Zoo Boo, Muessel School's lead event, Mishawaka, New Carlisle and Cops Night Out held at Four Winds Field in South Bend, as well at the County City Building.

As of March 2018, our department started receiving the lead manifest from the ISDH (Indiana Department of State Health) and as a result; we started case monitoring in June 2018, children with lead levels between 5-9.9 mcg/dL. It continues to be a challenge getting confirmations, but we are beginning to see our numbers trending slightly downward.

Our PHN department also participated in community events regarding opioid epidemic use with area physicians, community leaders, hospitals and law enforcement.

Educational opportunities offered by ISDH (Indiana Department of State Health) included recertification of lead management to all our PHN's and attendance at regional meeting in Marshall County offered by ISDH (Indiana Department of State Health) regarding Hepatitis A and C updates, trends and new changes in reporting with a software program called NEBS.

Also, our PHNs helped with the Immunization Clinic during the first quarter of 2018 and investigated greater than 800 Communicable Diseases.

Case Management for Elevated Blood Lead Levels			
	2016	2017	2018
New Cases Received	56	25	20
Cases Closed	98	13	24
Follow-up Cases Open at Close of the Year	26	40	32

Animal Bites by Animal:						
	2016		2017		2018	
	Reported	Rabies +	Reported	Rabies +	Reported	Rabies +
Canine	396	0	445	0	500	0
Feline	145	0	143	0	131	0
Bat	40	0	28	1	60	3
Other	9	0	10	0	16	0
Total	590	0	626	1	707	3

Animal Bites by Resident location:						
	2016		2017		2018	
	Reported	Rabies +	Reported	Rabies +	Reported	Rabies +
County Resident	122	0	121	1	113	3
Out-of-County Resident	15	0	5	0	7	0
South Bend Resident	315	0	312	0	374	0
Mishawaka Resident	138	0	188	0	213	0
Total	590	0	626	1	707	3

Tuberculosis Case Management and Testing

Tuberculosis (TB) control and case management by St. Joseph County Department of Health is a mandated task under the Indiana Code 410 IAC 1-2.3-106. This includes investigating the results of positive skin tests, positive (Quantiferon Gold) QFT-G plus tests, collection of sputum samples for evaluation by the ISDH lab. We provided prescribed medications for both active and latent TB cases, home visits for medication administration, and/or facetime administration. We evaluate and test applicable contacts of the index patient, communication with the patient's physician and/or staff, and provide patient education. TB Team meetings occur frequently to determine current case management status and to plan future strategies which include determining patient eligibility for facetime medication administration. We managed a record number of active TB cases in 2018. We collaborated with the Indiana State Department of Health through cohort conferences that occur at the fourth month of each patient's treatment.

Tuberculosis			
	2016	2017	2018
TST Placed	684	489	486
TST Positive	16	11	13
Suspect Cases	167	180	162
Active Cases	5	<5	18

Indiana State Immunization Grant

A competitive grant was awarded to the St. Joseph County Department of Health Nursing Division. Funds from this grant were used in various ways to increase immunization rates and promote services offered at the health department clinic. We utilized some of the funds for a media campaign of billboards, radio Public Service Announcements (PSAs), TV PSAs, advertising on social media sites, posters, stickers, magnets, hand sanitizer, and tissues. The primary focuses this year included influenza, Human Papilloma Virus (HPV), and every child by 2 campaign. Billboards were placed in targeted areas around St. Joseph County where increased rates of vaccinations are needed.

Our grant Registrar called 3,179 patients and sent out 1,115 reminder postcards to infants, children, and teens missing vaccinations.

Mobile Clinic events are scheduled by our Assistant Director of Nursing (ADON) for Immunization/TB. We have focused in part in areas that might have a social economic issue and/or area of interest. Our ADON orders vaccines. She also monitor's temperatures for the mobile unit along with the grant Registrar. The grant RN and Registrar facilitates the clinics. At these clinics we can provide education, lead draws, tuberculin skin testing, and vaccinations. In 2018 we provided 8 mobile clinics.

Additionally, the grant registrar attended Zoo Boo and Night Out Against Crime. The grant RN provided education at the BABE store.

Immunization Clinic

The Immunization Department strives to reduce or eliminate cases of vaccine preventable diseases through education and the administration of vaccines. Our South Bend Office is committed to 3 walk in clinic days per week. We administer Tuberculosis (TB) skin tests, lead draws, travel vaccines, and routine vaccines.

We also assist patients or guardians with record retrieval. Offer BABE coupons for vaccines administered, education and lead draws upon requests.

We facilitate a provider list for residents who do not have a physician. St. Joseph County remains a refugee hub. We strive to match the services we provide to those that do not yet have a healthcare provider. We achieve this through marketing and outreach efforts and collaborating with our community partners.

Our nurses consult one on one with adults to provide specific recommendations according to eligibility requirements. We offer applicable travel vaccines as eligible. We continue to offer subject matter resources

for our partners and residents. We hold immunization staff meetings and the ADON chairs the Northern Indiana Immunization Task Force, which meets six times per year.

Immunizations			
	2016	2017	2018
Td Adult, Preservative Free	21	22	31
Tdap	320	345	430
Dtap	119	119	112
DTaP/HepB/IPV	204	160	121
Dtap/IPV	72	65	81
IPV	120	130	144
PCV13	274	205	167
PPSV23	1	2	3
MMR	166	127	155
Varicella	191	148	165
MMRV	144	166	157
Hib	237	187	157
Pediatric Hepatitis A	471	429	436
Pediatric Hepatitis B	55	73	59
Adult Hepatitis A	58	39	160
Adult Hepatitis B	81	31	45
Adult Hepatitis A and B	90	30	45
Pediatric Influenza	299	229	321
Flu Mist	48*	0*	0*
Adult Influenza	311	173	270
Meningitis (MCV4)	359	415	428
Men B	115	194	199
HPV Quadrivalent	11	0**	0**
HPV9	393	297	321
Rotavirus Monovalent	63	59	53
Rotavirus Pentavalent	0	0	0
Typhoid, Oral	59	33	59
Typhoid, VICPS	87	64	85
Yellow Fever	28	41	0
Total Clinic Visits	1,976	1,626	1,805
Immunizations Administered	4,397	3,783	4,204

* Flu Mist not offered in schools 2015-2017. Flu Mist Vaccine was unavailable for the 2017-2019 Flu Season

**HPV Quadrivalent no longer offered at SJCHD

Vital Records

The following data includes all events that occurred within St. Joseph County during 2018. Numbers included in these tables are subject to change following Indiana State Department of Health reconciliation.

Birth Data			
	2016	2017	2018
Gender			
Male	2,236	2,208	2,268
Female	2,100	2,114	2,134
Total Births	4,336	4,322	4,402
Race			
White	3,420	3,471	3,449
African American	816	731	832
Asian Pacific	90	88	85
Native American	4	4	6
Other	6	28	30
Ethnicity			
Hispanic	552	590	663
Non-Hispanic	3,784	3,732	3,739
Birth Weight (in grams)^A			
< 1,000 (Extremely Low Birth Weight)	73	58	80
1,000 – 1,500 (Very Low Birth Weight)	60	58	52
1,501 – 2,500 (Low Birth Weight)	356	381	416
> 2,501	3,836	3,818	3,854
Unknown	11	7	0
Maternal Age (in years)			
< 15	1	2	2
15 – 18	158	164	154
19 – 24	1,174	1,122	1,141
25 – 29	1,323	1,329	1,374
30 – 34	1,087	1,126	1,105
35 – 39	494	488	498
≥ 40	99	91	128

Birth Data continued	2016	2017	2018
Residency			
St. Joseph County Resident	3,321	3,288	3,298
Out-of-County Resident	1,015	1,034	1,104
Place of Birth			
Memorial Hospital	2,392	2,427	2,413
Saint Joseph Health Center	1,918	1,853	1,972
Other (Home birth, in transit, etc.)	26	42	42
Birth Characteristics			
Twins	105	89	121
Triplets	3	5	6
Cesarean Births	1,301 (30%)	1252 (29%)	1,413
Congenital Anomalies	13	15	20
Other			
Correction of Birth Certificate	144	124	157
Adoptions Processed	204	147	147

^A Transfers from Out of County residents included.

Mortality Data			
	2016	2017	2018
Gender			
Male	1,428	1,483	1,544
Female	1,470	1,459	1,508
Total	2,898	2,942	3,052
Race/Ethnicity			
White	2,541	2,563	2,680
African American	310	331	323
Asian Pacific	42	37	44
Native American	4	11	5
Other	1	0	0
Hispanic	22	60	55
Age at Death			
0 – 28 days	37	35	38
29 days – 1 year	5	13	8
1 year – 24 years	35	48	42
25 years – 44 years	136	120	145
45 years – 64 years	539	530	605
≥ 65 years	2,146	2,083	2,214

Mortality Data continued	2016	2017	2018
Marital Status			
Married	990	1,030	1,063
Widowed	974	981	985
Single	452	435	481
Divorced	475	492	518
Unknown	7	4	5
Residence of Decedent			
South Bend	1,457	1,552	1,473
Mishawaka	590	618	595
St. Joseph County	426	356	413
Other Indiana Counties	257	261	316
Other States	168	155	181
Place of Death			
Nursing Home/Extended Care Facility	993	1,015	1,003
Residence	903	929	935
Memorial Hospital	494	511	552
Saint Joseph Regional Medical Center	352	335	387
Other	156	152	175

Causes of Death	2016	2017	2018
AIDS	5	8	4
Alzheimer's and Dementia	229	141	129
Aspiration Pneumonia	105	68	76
Cardiovascular			
Coronary Artery Disease/Arteriosclerosis Heart Disease and Vascular Heart Disease	216	143	161
Other Heart Disease	283	231	250
Congestive Heart Failure	161	118	105
Cerebral Vascular Accident	126	115	165
Chronic Obstructive Pulmonary Disease and Emphysema	96	74	115
Renal Failure	63	30	23
Cancer – Gastrointestinal			
Colon	28	24	22
Pancreatic	29	24	28
Esophageal	11	10	14
Rectal	2	8	3
Cancer – Respiratory	129	86	130
Cancer – Urogenital	45	57	53

Causes of Death continued	2016	2017	2018
Cancer - Integumentary			
Breast	31	22	32
Skin	0	0	2
Cancer – Heme and Lymph			
Leukemia	9	7	24
Lymphoma	30	12	10
Other Cancers	121	85	152
Total Cancer Deaths	436	335	470
Accidental Deaths			
Drug Related	58	62	63
Motor Vehicle	24	50	51
Other Accidents	44	35	34
Suicides			
Drugs	4	0	4
Firearms	24	28	21
Hanging	15	9	7
Other	3	2	8
Total	46	39	40
Homicides			
Total	18	22	22
Miscellaneous Cause of Death			
Total	988*	1,007*	1,344*

*All cause of death totals are subject to change. Due to reporting errors, if the primary cause of death is not listed first on the death certificate, it may take several months for a correction to occur.