

# St. Joseph County Health Department

## 2017 Annual Report

**Luis Galup, MD**  
Health Officer

**Nick Molchan, MPA, REHS**  
Administrator

### **Main Office**

St. Joseph County Health Department  
227 West Jefferson Boulevard  
South Bend, IN 46601  
(574) 235-9750

### **Branch Office**

219 Lincolnway West  
Mishawaka, IN 46544  
(574) 256-6223  
(Temporarily closed on October 20, 2017)

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## **Board of Health Members**

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### **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

Michael Harding  
Appointed by the County Commissioners  
Democrat, Term Expires December 31, 2017

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

Mark Kricheff, MD  
Appointed by the County Commissioners  
Independent, Term Expires December 31, 2017

Feranmi Okanlami, MD  
Appointed by Mayor of South Bend  
Independent, Term Expires December 31, 2020

### **Board Attorney**

J. David Keckley, JD

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## Mission, Vision and Value Statements

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### 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.

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## Health Officer

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The budget for the 2018 year of the Health Department had to be reduced by 1%. In addition, a charge regarding of ¾ % of insurance coverage was added to the budget.

During 2017 our Epidemiologist resigned and was replaced. However, our replacement terminated employment after being on the job only a few months. The position has remained unreplaced.

During the first half of the year the number of nurses decreased to 6 full times. The positions were later filled bringing the nursing staff to 10 full times. The replacements are finishing their training at present.

The food division lost in July its assistant director who was hired by Notre Dame. He had created an application in Excel and Access DB to provide reports for the division. His position was filled from within.

Although ISDH announced the replacement of the Stellar database (Lead) for March 2017, the replacement has not been completed.

In July of 2017 the Board adopted a modification of the Personnel Policies manual to include HIPAA amendments.

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## St. Joseph County Health Department Staff

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Staffing as of 12/31/2017

Luis Galup, MD – Health Officer

Nick Molchan, MPA, REHS – Administrator

Mary Rooney – Executive Assistant

Amy Ruppe – Finance Manager

### **Epidemiology & Emergency Preparedness**

Vacant – 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

Whitney Griffin

Amber McNeill

Jeff Murawski

Paula Reinhold

Patrick Sovinski

Vacant -EHS

### **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

Vacant-FSIO

### **Health Education**

Robin Vida, MPH, CHES – Director

Kristen Borrelli, BS, CHES

Margarita Oviedo

Kirsten Zalas, BS, CHES

Sally Dixon, RN – FIMR Coordinator (Grant PT)

Betsy McCue, MS - GHRA

### **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

Paula Sulentic

Connie Wawrzyniak

Danielle Sims (Grant PT)

Vacant-Immun. RN (Grant PT)

### **Vital Records**

Ericka Tijerina, BS – Supervisor

Zamiki Chism – Assistant Supervisor

Sue Sjoberg

Katie Way

## Financial

During FY2017, the Health Department saw a slight increase in fee revenue, which, when compared to 2016, was up by approximately 2.65%. On the other hand, the Health Department saw a decrease in tax revenue, which when compared to 2016, was down by approximately 18.75%.

### Grants Awarded to the St. Joseph County Health Department:

- A \$50,000 ISDH grant for our Health F.I.M.R. program
  - (valid 10/01/15 thru 09/30/17)
- A \$6,000 Memorial Hospital grant for our Health F.I.M.R. program
  - (valid 10/01/15 with no expiration)
- A \$6,000 St. Joseph Regional Medical Center grant for our Health F.I.M.R. program
  - (valid 10/01/15 with no expiration)
- 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)
- A \$12,000 St. Joseph Regional Medical Center grant for our Health F.I.M.R. program
  - (valid 10/01/17 with no expiration)
- A \$10,000 ISDH grant for our Physical Activity program
  - (valid 06/30/16 thru 06/29/17)
- A \$55,615 ISDH grant for our Immunization CoAg program
  - (valid 01/01/17-06/30/17)
- A \$55,615 ISDH grant for our Immunization CoAg program
  - (valid 07/01/17-12/31/17)
- A \$2,987 ISDH grant for our Zika Virus program
  - (valid 09/01/16-06/30/17)
- A \$72,672 ISDH grant for our Local Health Maintenance program
  - (valid 01/01/17 thru 12/31/17)
- A \$95,631.31 ISDH grant for our Local Health Department Trust Account
  - (valid 01/01/17 thru 12/31/17)

### Overview of Revenue and Expenditures

	2015	2016	2017
County Health Fund Tax Revenue	\$1,532,193.61	\$1,616,320.20	\$1,312,605.86
County Health Fund Fee Revenue	\$1,357,432.58	\$1,375,772.33	\$1,412,950.55
County Health Other Revenue	\$501,555.86*	\$400.00	\$4,594.43
Grant Revenue	\$279,594.63	\$418,155.16	\$214,942.12
<b>TOTAL REVENUE</b>	<b>\$3,670,776.68</b>	<b>\$3,410,647.69</b>	<b>\$2,945,092.96</b>
County Health Fund Expenditures	\$2,400,780.45	\$2,407,381.33	\$2,374,311.63
Grant Expenditures	\$209,015.21	\$438,381.52	\$322,486.54
<b>TOTAL EXPENDITURES</b>	<b>\$2,609,795.66</b>	<b>\$2,845,762.85</b>	<b>\$2,696,798.17</b>

\*In 2014 the amount allocated to the Health Department was underestimated by \$500,000. The amount required to balance the Health Department fund was added to the 2015 allocation of funds.

## County Health - Fund 1159

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

### Tax Revenue & Fee Revenue

<b>2017</b>													
Beginning Balance	\$1,075,866.68												
	January	February	March	April	May	June	July	August	September	October	November		
	December	Year-To-Date											
REVENUE													
Tax Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$721,878.45	\$0.00	\$0.00	\$0.00	\$0.00	\$590,727.41	\$1,312,605.86	
Fee Revenue	\$213,287.38	\$187,077.59	\$134,451.91	\$97,317.08	\$102,527.60	\$101,308.24	\$87,252.95	\$132,534.85	\$101,212.55	\$94,858.49	\$81,948.35	\$79,173.56	\$1,412,950.55
Other Revenue	\$377.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,484.71	\$0.00	\$2,518.62	\$214.00	\$0.00	\$4,594.43
<b>TOTAL REVENUE</b>	<b>\$213,664.48</b>	<b>\$187,077.59</b>	<b>\$134,451.91</b>	<b>\$97,317.08</b>	<b>\$102,527.60</b>	<b>\$823,186.69</b>	<b>\$87,252.95</b>	<b>\$134,019.56</b>	<b>\$101,212.55</b>	<b>\$97,377.11</b>	<b>\$82,162.35</b>	<b>\$669,900.97</b>	<b>\$2,730,150.84</b>
EXPENDITURES													
Salary & Benefits	\$143,248.23	\$145,683.03	\$596,678.98	\$146,769.08	\$137,544.06	\$210,854.90	\$137,454.04	\$133,027.13	\$135,506.68	\$137,598.19	\$133,256.19	\$189,972.08	\$2,247,592.59
Supplies	\$2,907.19	\$1,750.21	\$1,689.35	\$2,260.33	\$3,278.51	\$2,042.43	\$3,227.01	\$2,203.11	\$3,528.34	\$2,736.28	\$2,574.27	\$2,391.68	\$30,588.71
Other Services and Charges	\$5,316.25	\$3,300.01	\$28,369.47	\$6,810.90	\$2,242.89	\$4,369.98	\$9,114.45	\$3,606.94	\$12,582.40	\$8,860.34	\$4,482.34	\$7,074.36	\$96,130.33
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
<b>TOTAL EXPENDITURES</b>	<b>\$151,471.67</b>	<b>\$150,733.25</b>	<b>\$626,737.80</b>	<b>\$155,840.31</b>	<b>\$143,065.46</b>	<b>\$217,267.31</b>	<b>\$149,795.50</b>	<b>\$138,837.18</b>	<b>\$151,617.42</b>	<b>\$149,194.81</b>	<b>\$140,312.80</b>	<b>\$199,438.12</b>	<b>\$2,374,311.63</b>
<b>MONTHLY SURPLUS / (SHORTFALL)</b>	<b>\$62,192.81</b>	<b>\$36,344.34</b>	<b>(\$492,286.89)</b>	<b>(\$58,523.23)</b>	<b>(\$40,537.86)</b>	<b>\$605,919.38</b>	<b>(\$62,542.55)</b>	<b>(\$4,817.62)</b>	<b>(\$50,404.87)</b>	<b>(\$51,817.70)</b>	<b>(\$58,150.45)</b>	<b>\$470,462.85</b>	
<b>ACCUMULATIVE SURPLUS / (SHORTFALL)</b>	<b>\$1,138,059.49</b>	<b>\$1,174,403.83</b>	<b>\$682,117.94</b>	<b>\$623,594.71</b>	<b>\$583,056.85</b>	<b>\$1,188,976.23</b>	<b>\$1,126,433.68</b>	<b>\$1,121,616.06</b>	<b>\$1,071,211.19</b>	<b>\$1,019,393.49</b>	<b>\$961,243.04</b>	<b>\$1,431,705.89</b>	

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## Epidemiology & Emergency Preparedness

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The Epidemiology & Emergency Preparedness Division is responsible for:

- Communicable disease investigation and surveillance\*
- Implementation of the Fetal and Infant Mortality Review Program\*\*
- Medical countermeasure dispensing planning
- Coordination of Emergency Support Function #8
- Emergency preparedness collaboration with other response agencies
- Emergency preparedness training and education

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 position was vacant for most of the year. However, during the months that the position was filled, the Epidemiologist continued to work on general disease and influenza surveillance.

\*\*Monthly FIMR Case Review Team (CRT) and quarterly FIMR Community Action Team (CAT) meetings were held in 2017. Relationships and data gathering policies were refined with hospitals, and case abstractions and maternal home interviews were completed. 37 cases of Infant Mortality were reviewed by the CRT and their findings and recommendations were presented to the CAT. Since trends in Infant Mortality in St. Joseph County started showing identifiable action steps that were heavily rooted in health education and community outreach strategies, the FIMR Program was moved into the Health Education Division in the Fall of 2017.

The Division participated in one full scale emergency exercise, and five tabletop exercises in 2017 with local partners and District 2 DPC/HCC/LHD. Five new Closed Point-of-Dispensing Sites (PODS) were added to the Health Department's plans. Emergency Support Function #8 quarterly meetings were conducted. The Medical Reserve Corps of St. Joseph County participated in the Sunburst race and was on standby for additional Lead testing in Northern Indiana per ISDH request. Five new employee Emergency Preparedness Orientations were held. Completed walkthroughs of all six Public POD's and updated all POD plans. New 800 MHZ radios were programmed and now used in monthly District2 call down drills. Quarterly Health Department employee call downs continue. Newly renovated Emergency Response Vehicle was used in five mobile clinics by Public Health Nursing.

Continued collaboration with county agencies and businesses has resulted in Emergency Support Function 8 (ESF8) membership growth. Medical Reserve Corp(MRC) membership continues to grow though at a slow pace. More MRC meetings are planned for upcoming year. All Emergency Preparedness Plans have been reviewed and updated. The Emergency Preparedness Division will continue collaborating with community partners to be successful in maintaining preparedness and community readiness.



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## Environmental Health Services

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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 2017

#### *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, but hired two others so that all division positions will be filled as of January 2018.

#### *Other Programs*

Other programs listed above proceeded as planned with no significant issues.

<b>Work Activities</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Septic Program</b>			
Inspections Performed	830	984	989
Consultations Performed	33	16	42
<b>Subdivision Program</b>			
Health Officer Reports	31	28	35
Subdivision Reviews	36	39	53
Rezoning & Replat Reviews	11	15	14
<b>Wellhead Program</b>			
Inspections Performed	178	136	193
<b>Well Drilling Program</b>			
On-Site Inspections Performed	121	172	180
Well Abandonments	130	191	179
<b>Source Water Program</b>			
Phase I Inquiries	123	124	127
Spill Responses	4	3	3
Meth Lab Occurrence Response	21	10	2
Other Source Water Inspections	71	89	64
<b>Surface Water Program</b>			
Surface Water Sampling	3	1	11
<b>Lead Program</b>			
HUD Lead Inspections	25	0	0
Lead Risk Assessments	34	41	52
Public Information Events	4	3	6
Children Tested for Lead*	775	3174	4489
<b>CAFO Program</b>			
Inspections Performed	0	0	0
<b>Air Quality Program</b>			
Indoor Air Quality Investigations	2	0	0
Mold Investigations	0	1	0
<b>Vector Program</b>			
Larvicide Swimming Pools/Stagnant Water	6	24	27
<b>Healthy Homes Program</b>			
Total Complaints	72	63	54
Dwellings Declared Unfit	13	5	0
<b>Massage Program</b>			
Establishment Inspections Performed	53	67	63
<b>Tattoo/Body Piercing Program</b>			
Inspections Performed	18	17	39

<b>Work Activities continued</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Complaints / Investigations</b>			
Trash	49	45	47
Sewage	40	70	110
Water (ditches, lakes, ponds & swells)	11	18	18
Motels/Hotels	1	3	5
Burning	2	2	7
Other	19	38	39
<b>Abatement Correspondence**</b>			
Abatement Letters Sent	190	288	235
Immediate Threat to Public Health Letters Sent	1	0	2
Impending Legal Action Letters Sent	24	41	28

\* 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

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## Food Services

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The Food Services Division, of the St. Joseph County Health Department (SJCHD), contributes to the department's overall mission of facilitating the prevention of disease for all St. Joseph County residents through a comprehensive inspection compliance program operated in accordance with federal guidelines, state regulations and county laws.

The Food Services Division permits and performs inspections on all permanent, mobile and temporary food establishments in St. Joseph County. The purpose and intent of the inspections performed is to ensure food served is prepared in adherence with safe food handling practices and does not become a vehicle in the transmission of a communicable disease. The Food Services Division staff is also responsible for educating and advising the management and staff of all retail food establishments on current food industry practices.

2,111 routines and 638 temporary inspections were performed by Food Safety Inspection Officers (FSIO) in 2017. The unannounced inspections are designed to assess an establishment's level of compliance and evaluate its staff's knowledge of food safety regulations. Additionally, the Food Services Division is responsible for investigation of consumer complaints, review of plans for new or extensively remodeled establishments, inspections of mobile food truck vendors, plus performance of public/semi-public pool inspections, and pool complaints. Fire investigations, consultations for prospective establishments, and the collection and submission of samples, for state analysis, are also duties of the Division.

### **2017 Highlights**

The complexity of a retail food establishment's menu, plus the degree of preparation menu items required, are factors used to determine the frequency of inspections annually performed at a retail food establishment. Food Safety Inspection Officers conducted 2,111 retail inspections in 2017, down from the 2416 inspections conducted in 2016, thus representing a 12.6% decrease in total routine inspections. The decrease is attributable to reductions in staff.

The Food Services and Health Education divisions partnered with Martin's Supermarkets to raise food safety awareness for National Food Safety Education Month. Throughout the month of September, community presentations and in-store interactive booths were held at various Martin locations.

### ***Staffing***

Members of the Food Division staff attended North Regional Training workshops in Rochester, Indiana, in both the Spring and the Fall and the Annual Educational Fall Conference held in Lawrenceburg, Indiana where Evidence-based practice was the overall conference theme. Staff continued to participate in monthly web-based training sessions covering a variety of food industry related topics.

### ***Mobile Street Vending***

The City of South Bend's 2015 ordinance amendment, allowing street vending for mobile food trucks, resulted in six mobile food trucks being issued annual permits by SJCHD in 2016. In 2017, an additional four annual mobile food truck permits were issued. There was an increased Food Truck presence in events such as First Food Truck Fridays, Pulse Downtown Summer Series, Madison Road Artisan Market and the River Lights Music Festival. Mobile food trucks can operate independent of any scheduled event or celebration; however, their permit also allows them to participate in any registered event held within St. Joseph County, anytime during the entire calendar year.

<b>Food Division</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
Complaints - Food Service	179	193	186
Complaints - Food Store	28	31	15
Certificates of Perfect Inspection	403	483	418
Abatement Correspondence	50	53	30
Health Officer Hearings	16	15	5
Number of Opening Inspections	157	189	199
Retail Inspections Completed	1,966	2,416	2,111
Establishments Ordered to Cease Operations	10	15	5
Temporary Events *	174	218	259
Temporary Inspections	940	858	638
Possible Food Borne Illness Investigations	11	9	5
Smoking Complaints	3	4	0
Fire Investigations	18	12	9
<b>Pool Information</b>			
Number of Inspections	166	154	117
Consultations	1	6	2
Pool Complaints	1	4	5
Closings**	49	34	29
<b>Staff Development</b>			
Meetings and Trainings (Total in Hours)	81	136.25	138.75

\*Events listed are for the number of temporary events - not the number of days the event was in operation.

\*\*Closed due to improper water quality reports or facilities not submitting water reports as required by ISDH.

## Health Education

TOPIC	2015		2016		2017	
	School (K-College)	Adults	School (K-College)	Adults	School (PreK-College)	Adults
Wellness	339	106	232	125	441	90
Substance Abuse Prevention	0	9	0	4	0	4
Communicable Disease	0	9	4	9	5	11
Sexuality	55	14	52	6	30	7
Chronic Disease	2	10	0	0	0	2
<b>Total Presentations (participants)</b>	<b>544 (9,964)</b>		<b>432 (8,826)</b>		<b>973 (10,070)</b>	

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

	2015	2016	2017
	34	42	33
<b>Total Participants</b>	3,473	3,927	5,800

### Highlighted Programs/Projects/Events

#### *Lead Poisoning Prevention Efforts*

- The beginning of 2017 kicked off an increased level of lead poisoning prevention and education efforts. The Director of Health Education hosted a Lead 101 conversation in January with neighbors in the Near Northwest Neighborhood and worked closely with community partners to develop and collaborate with department efforts. Numerous meetings, educational presentations and discussions were held during 2017 with a clear direction set for 2018.

#### *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.

#### *Reducing Obesity Coalition of St. Joseph County (ROC)*

- In 2017, we launched a cooking basics class that offers monthly free cooking classes in partnership with Martin's Supermarkets titled "Let's Cook!" Participants work hands-on with educators to prepare a meal and then the meal is enjoyed while targeted topics with healthy living and cooking are discussed. This partnership has been renewed for 2018. The Reducing Obesity Coalition also worked on its Walking School Bus program and Let's Move All Stars efforts. Our annual ROC UR

BODY event had over 2,500 people in attendance. 2018's event will be in conjunction with DTSB's Kids Night Out, the signature event for VPA's Best Week Ever.

*St. Joseph County Food Access Council*

- This past year the SJC Food Access Council began its food system assessment. By the end of 2017, several pilot groups had been conducted and a plan was put forth for the remaining census tracts throughout the county. Information provided thus far has been extremely enlightening and realistic solutions have begun to be developed. The hope is to submit a draft Food Plan by the end of 2018 once all census tracts in the county have been covered.

*Let's Move! Childcare Program*

- 2017 saw our first family nights hosted. We worked on adding additional childcare sites and adding more family nights. A Master's in Public Health intern came in the fall and has been working on this project.

*Fetal Infant Mortality Review (FIMR) Program*

- The Title V FIMR Grant renewal of \$50,000 was awarded by the ISDH for the period of 10/1/2017 through 9/30/2019.
- The FIMR Program Case Review Team completed the review of 37 cases of infant death from 2015 and 2016 in St. Joseph County and presented their findings and recommendations to the Community Action Team in March. The review of cases found that important issues surrounding infant mortality include the health of the mother prior to pregnancy, safe sleep education, increasing provider awareness of community resources and connecting families to home visiting and community resources.
- By the summer of 2017, an increase in Sudden Unexplained Infant Death (SUID) cases related to unsafe sleep environments, resulted in an increased focus on education and a partnership with the New York City Health Department to adopt their "Stay Close. Sleep Apart." Campaign. This campaign was adopted by both Beacon and Saint Joseph Hospital Systems as well as maternal-child health providers and community agencies that work with mothers and families.
- The rest of 2017 included the review of 2017 cases with a continued focus on safe sleep education and increasing the utilization of existing home visiting providers in our community including Beacon's Perinatal Infant Health Project (PIHP) and Community Wellness Partner's Speak Life Initiative.

## Nursing

The Nursing Division includes the Public Health Nursing Division, the Immunization Clinics, 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. Nursing staff function in multiple roles within the Health Department and continue to expand their knowledge and skills.

<b>Immunizations</b>			
	<b>2015</b>	<b>2016</b>	<b>2017</b>
Td Adult, Preservative Free	32	21	22
Tdap	535	320	345
Dtap	165	119	119
DTaP/HepB/IPV	214	204	160
Dtap/IPV	98	72	65
Dtap/Hib/IPV	11	0	0
IPV	171	120	130
PCV13	310	274	205
PPSV23	2	1	2
MMR	265	166	127
Varicella	284	191	148
MMRV	225	144	166
Hib	279	237	187
Pediatric Hepatitis A	811	471	429
Pediatric Hepatitis B	98	55	73
Adult Hepatitis A	86	58	39
Adult Hepatitis B	91	81	31
Adult Hepatitis A and B	123	90	30
Pediatric Influenza	288	299	229
Flu Mist	118*	48*	0*
Adult Influenza	490	311	173
Meningitis (MCV4)	520	359	415
Men B	**	115	194
HPV Quadrivalent	383	11	0***
HPV9	260	393	297
Rotavirus Monovalent	80	63	59
Rotavirus Pentavalent	0	0	0
Typhoid, Oral	81	59	33
Typhoid, VICPS	151	87	64
Yellow Fever	75	28	41
<b>Total Clinic Visits</b>	<b>2,908</b>	<b>1,976</b>	<b>1,626</b>
<b>Immunizations Administered</b>	<b>6,246</b>	<b>4,397</b>	<b>3,783</b>

\* Flu Mist not offered in schools 2015-2017. Flu Mist Vaccine was unavailable for the 2017-2018 Flu Season

\*\*Men B Vaccine first available in 2016.

\*\*\*HPV Quadrivalent no longer offered at SJCHD.



<b>Tuberculosis</b>			
	<b>2015</b>	<b>2016</b>	<b>2017</b>
TST Placed	787	684	489
TST Positive	30	16	11
Suspect Cases	201	167	180
Active Cases	11	5	<5

<b>Case Management for Elevated Blood Lead Levels</b>			
	<b>2015</b>	<b>2016</b>	<b>2017</b>
New Cases Received	98	56	25
Cases Closed	95	98	13
Follow-up Cases Open at Close of the Year	68	26	40

<b>Animal Bites</b>						
	<b>2015</b>		<b>2016</b>		<b>2017</b>	
	Reported	Rabies +	Reported	Rabies +	Reported	Rabies +
Canine	394	0	396	0	445	0
Feline	132	0	145	0	143	0
Bat	20	0	40	0	28	1
Other	7	0	9	0	10	0
County Resident	107	0	122	0	121	1
Out-of-County Resident	10	0	15	0	5	0
South Bend Resident	282	0	315	0	312	0
Mishawaka Resident	154	0	138	0	188	0
<b>Total</b>	<b>553</b>	<b>0</b>	<b>590</b>	<b>0</b>	<b>626</b>	<b>1</b>

## Vital Records

The data below includes all events that occurred within St. Joseph County during 2017. Numbers included in these tables are subject to change following Indiana State Department of Health reconciliation.

<b>Birth Data</b>			
	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Gender</b>			
Male	2,133	2,236	2,208
Female	2,165	2,100	2,114
Total Births	4,298	4,336	4,322
<b>Race/Ethnicity</b>			
White	3,449	3,420	3,471
African American	708	816	731
Asian Pacific	111	90	88
Native American	4	4	4
Other	26	6	28
Hispanic	513	552	590
Non-Hispanic	3,785	3,784	3,732
<b>Birth Weight (in grams)<sup>A</sup></b>			
< 1,000 (Extremely Low Birth Weight)	64	73	58
1,000 – 1,500 (Very Low Birth Weight)	75	60	58
1,501 – 2,500 (Low Birth Weight)	351	356	381
> 2,501	3,808	3,836	3,818
Unknown	0	11	7
<b>Maternal Age (in years)</b>			
< 15	4	1	2
15 – 18	157	158	164
19 – 24	1,230	1,174	1,122
25 – 29	1,300	1,323	1,329
30 – 34	1,044	1,087	1,126
35 – 39	464	494	488
≥ 40	99	99	91
<b>Maternal Characteristics<sup>B</sup></b>			
No Prenatal Care	61	62	91
Tobacco Use	492	1,816	1,734

<b>Birth Data continued</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Residency</b>			
St. Joseph County Resident	3,281	3,321	3,288
Out-of-County Resident	1,017	1,015	1,034
<b>Place of Birth</b>			
Memorial Hospital	2,510	2,392	2,427
Saint Joseph Health Center	1,742	1,918	1,853
Other (Home birth, in transit, etc.)	46	26	42
<b>Birth Characteristics</b>			
Twins	81	105	89
Triplets	1	3	5
Cesarean Births	1,322 (31%)	1,301 (30%)	1252 (29%)
Congenital Anomalies	22	13	15
<b>Other</b>			
Correction of Birth Certificate	132	144	124
Adoptions Processed	209	204	147

<sup>A</sup> Transfers from Out of County residents included.

<sup>B</sup> Change in reporting system requires that these questions must now be answered prior to completing form

<b>Mortality Data</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Gender</b>			
Male	1,385	1,428	1,483
Female	1,440	1,470	1,459
Total	2,825	2,898	2,942
<b>Race/Ethnicity</b>			
White	2,502	2,541	2563
African American	306	310	331
Asian Pacific	14	42	37
Native American	3	4	11
Other	0	1	0
Hispanic	29	22	60
<b>Age at Death</b>			
0 – 28 days	33	37	35
29 days – 1 year	5	5	13
1 year – 24 years	52	35	48
25 years – 44 years	137	136	120
45 years – 64 years	521	539	530
≥ 65 years	2,077	2,146	2,083

<b>Mortality Data continued</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Marital Status</b>			
Married	994	990	1,030
Widowed	928	974	981
Single	395	452	435
Divorced	502	475	492
Unknown	6	7	4
<b>Residence of Decedent</b>			
South Bend	1,386	1,457	1,552
Mishawaka	556	590	618
St. Joseph County	432	426	356
Other Indiana Counties	284	257	261
Other States	167	168	155
<b>Place of Death</b>			
Nursing Home/Extended Care Facility	906	993	1,015
Residence	900	903	929
Memorial Hospital	505	494	511
Saint Joseph Regional Medical Center	342	352	335
Other	172	156	152

<b>Causes of Death</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>AIDS</b>	3	5	8
<b>Alzheimer's and Dementia</b>	194	229	141
<b>Aspiration Pneumonia</b>	146	105	68
<b>Cardiovascular</b>			
Coronary Artery Disease/Arteriosclerosis Heart Disease and Vascular Heart Disease	270	216	143
Other Heart Disease	351	283	231
Congestive Heart Failure	135	161	118
Cerebral Vascular Accident	155	126	115
<b>Chronic Obstructive Pulmonary Disease and Emphysema</b>	142	96	74
<b>Renal Failure</b>	85	63	30
<b>Cancer – Gastrointestinal</b>			
Colon	37	28	24
Pancreatic	36	29	24
Esophageal	15	11	10
Rectal	3	2	8
<b>Cancer – Respiratory</b>	149	129	86
<b>Cancer – Urogenital</b>	67	45	57

<b>Causes of Death continued</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Cancer - Integumentary</b>			
Breast	36	31	22
Skin	7	0	0
<b>Cancer – Heme and Lymph</b>			
Leukemia	13	9	7
Lymphoma	18	30	12
<b>Other Cancers</b>	129	121	85
<b>Total Cancer Deaths</b>	656	436	335
<b>Accidental Deaths</b>			
Drug Related	56	58	62
Motor Vehicle	30	24	50
Other Accidents	39	44	35
<b>Suicides (Total)</b>	45	46	39
Drugs	5	4	0
Firearms	22	24	28
Hanging	14	15	9
Other	5	3	2
<b>Homicides (Total)</b>	22	18	22
<b>Misc.</b>	369	988*	1,007*

\*All 2017 Cause of Death totals may change. Due to a computer software glitch, several causes of death are still uncategorized. This issue continues to be addressed, and this report reflects the totals categorized as of 3/1/18.