

# St. Joseph County Health Department

## 2015 Annual Report

**Dale D. Deardorff, MD**

Health Officer, 1/01/15 – 10/19/15

**Luis Galup, MD**

Interim Health Officer, 10/19/15 – 12/31/15

**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

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## Board of Health Members

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### **President**

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

### **Vice President**

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

### **Secretary**

Luis Galup, MD  
Health Officer

### **Members**

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

Sharon Imes, RN, MSN, CEN  
Appointed by the County Commissioners  
Democrat, Term Expires December 31, 2016

Mark Kricheff, M.D.  
Appointed by the County Commissioners  
Independent, Term Expires December 31, 2017

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

Feranmi Okanlami, MD  
Appointed by Mayor of South Bend  
Independent, Term Expires December 31, 2016

### **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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A new Health Officer joined the Health Department on October 19, 2015. The months of November and December were spent primarily learning the different facets of the Department and getting acquainted with members of the Community with important influence in the activities of the Health Department. After attending a meeting on Fetal Infant Mortality Review (FIMR) in Indianapolis in December 2015, the implementation of a similar type of program was initiated locally.

The Nursing Division meetings regarding case management of active tuberculosis and contacts primarily occupied the month of December.

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## St. Joseph County Health Department Staff

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Staffing as of 12/31/2015

Luis Galup, MD – Health Officer

Nick Molchan, MPA, REHS – Administrator

Mary Rooney – Executive Assistant

Amy Ruppe – Finance Manager

### **Epidemiology & Emergency Preparedness**

Genessa Doolittle, MPH, CHES – Supervisor

Paul Burrows – Local Public Health Coordinator

### **Environmental Health Services**

Marc Nelson – Director

Linda Mauller, BS – Assistant Director

Denise Kingsberry – Administrative Assistant

LaTeesha Wright – Staff Assistant

John Engstrom

Mark Espich

Whitney Griffin

Adrienne Lenyo

Jordan Maiden

Jeff Murawski

Paula Reinhold

### **Food Services**

Carolyn Smith, BS, C.F.S.P. – Director

Kevin Harrington, BS, C.F.S.P. – Assistant  
Director

Pam Thompson – Administrative Assistant

Sharyl Smith – Staff Assistant

Susan Burnett, BS

Karen Flanigan, BA, C.F.S.P.

Melissa Papp

Lynette Wesby

### **Health Education**

Robin Vida, MPH, CHES – Director

Kirstin Boyd, BS, CHES

Spencer Landeck, BS

Lissette Santana

### **Nursing**

Christine Hinz, RN, BSN – Director

Christina Wheeler, RN, BSN – Assistant Director

Neiko Rust, RN – Assistant Director

Linda Brock, RN, BSN

Jennifer Costello, RN

Donna Donlin-Sriver – Medical Records/Registrar

Carol Frazee – Billings Clerk

Diana Laidlaw, RN

Jessica Lemon, RN

Lori Montgomery, RN, BSN

Susan Rabe, RN

Paula Sulentic

Jill Tyler, RN

Connie Wawrzyniak

### **Vital Records**

Ericka Tijerina, BS – Supervisor

Zamiki Chism – Assistant Supervisor

Sue Sjoberg

Katie Way

## Financial

During FY2015, the Health Department sought out and applied for a few new grant opportunities and were awarded grant agreements for three of them. In regards to revenue, the Health Department saw an increase in fee revenue for the first time in four years, which, when compared to 2014, was up by approximately 25%. The Health Department also saw a significant increase in tax revenue, which was more than doubled from 2014 at an increase of approximately 113%.

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

- A \$3,500 NACCHO grant for our Medical Reserve Corp program
  - (valid 01/08/15 thru 07/31/15)
- A \$23,722 ISDH grant for our Bioterrorism/Emergency Preparedness program
  - (valid 07/10/14 thru 06/30/15)
- A \$26,072 ISDH grant for our Bioterrorism/Emergency Preparedness program
  - (valid 07/01/15 thru 06/30/16)
- A \$32,135 ISDH grant for our Health Ebola program
  - (valid 07/01/15 thru no expiration date)
- A \$66,000 ISDH grant for our Health F.I.M.R. program
  - (valid 10/01/15 thru 09/30/17)
- A \$13,300 ISDH grant for our Physical Activity program
  - (valid 11/01/15 thru 06/29/16)
- A \$72,672 ISDH grant for our Local Health Maintenance program
  - (valid 01/01/15 thru 12/31/15)
- A \$95,631.31 ISDH grant for our Local Health Department Trust Account
  - (valid 01/01/15 thru 12/31/15)
- A \$392,060 grant for our Health H.U.D. program
  - (valid 05/01/12 thru 05/31/15)
- A \$14,535 grant for our Health H.U.D. program
  - (valid 06/01/15 thru 05/31/16)

### Overview of Revenue and Expenditures

	2013	2014	2015
County Health Fund Tax Revenue	\$1,188,156.34	\$720,310.20	\$1,532,193.61
County Health Fund Fee Revenue	\$1,140,276.73	\$1,086,948.60	\$1,357,432.58
County Health Other Revenue	\$13,427.29	\$1,572.48	\$501,555.86
Grant Revenue	\$634,222.97*	\$309,799.28	\$279,594.63
<b>TOTAL REVENUE</b>	<b>\$2,976,083.33</b>	<b>\$2,118,630.56</b>	<b>\$3,670,776.68</b>
County Health Fund Expenditures	\$2,531,178.79	\$2,575,691.41	\$2,400,780.45
Grant Expenditures	\$694,897.06**	\$325,096.52	\$209,015.21
<b>TOTAL EXPENDITURES</b>	<b>\$3,226,075.85</b>	<b>\$2,900,787.93</b>	<b>\$2,609,795.66</b>

\*2013 includes an additional \$309,884.02 in grant revenue as the Local Health Department Trust Account was given its own fund number and was removed from the County Health Fund and receipted into the newly established Health Trust Fund.

\*\*2013 includes an additional \$309,884.02 in grant expenditures as the Local Health Department Trust Account was removed from the County Health Fund and given its own fund number.



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## Epidemiology & Emergency Preparedness

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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

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 also provided data to community workgroups as requested. A Title V grant from Indiana State Department of Health was awarded to the Health Department through the Epidemiology and Emergency Preparedness Division to implement a Fetal Infant Mortality Review Program, which will begin in 2016.

The Division participated in one full scale emergency exercise and two tabletop exercises in 2015. Three new Closed Point-of-Dispensing Sites were added to the Health Department's plans, and quarterly meetings of the Emergency Support Function #8 were conducted. Emergency response equipment and technology – especially relating to the Department Operation Center - was updated, and an Emerging Infectious Disease Plan was created. The Division continued to increase membership in the Medical Reserve Corps of St. Joseph County (MRC) through agency and community presentations.

The Division continued to collaborate with other organizations, providing representation on the Michiana Perinatal Consortium, the Child Fatality Review Team, the Penn-Harris-Madison District Safe Schools Committee, the Indiana State Department of Health's Public Health Emergency Preparedness Cooperative Agreement Committee, the District 2 Healthcare Coalition, Indiana MRC, and numerous trainings and meetings with community preparedness partners.



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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 2015

#### *Staffing*

The turnover of technical specialists continues to be a severe problem. In 2015, one of the most experienced staff members was lost. This is consistent with recent years. The Division's sustainability as a fully functional organization will continue to be hampered with this type of turnover.

Most staff is lost to other government agencies including Marshall County, City of South Bend, and the Indiana Department of Environmental Management (IDEM). Five technical staff members have been hired directly from our Environmental Health Division by Northern Regional Office of IDEM.

#### *User Fees*

The user fees collected pay for approximately 75% of the Division's costs.

#### *Source Water Protection Program*

The Division supported the community on a large number of special projects, including providing technical direction for the response to an outbreak of Legionnaires Disease and ordering corrective action for the contamination of drinking water from an aquatic herbicide placed in a Granger lake.

#### *Lead Poisoning Prevention*

The Division teamed with the South Bend Housing Authority on a one-year extension of the lead poisoning prevention grant from the Department of Housing and Urban Development (HUD). The Division has brought more than \$6.5 million in lead poisoning prevention grants to the community from HUD and the Centers for Disease Control and Prevention.

#### *Other Programs*

Other programs proceeded as planned with no significant issues.

<b>Work Activities</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Septic Program</b>			
Inspections Performed	818	771	830
Consultations Performed	25	27	33
<b>Subdivision Program</b>			
Health Officer Reports	39	31	31
Subdivision Reviews	45	32	36
Rezoning & Replat Reviews	18	18	11
<b>Wellhead Program</b>			
Inspections Performed	246	103	178
<b>Well Drilling Program</b>			
On-Site Inspections Performed	236	150	121
Well Abandonments	232	159	130
<b>Source Water Program</b>			
Phase I Inquiries	57	75	123
Spill Responses	9	5	4
Meth Lab Occurrence Response	10	18	21
Other Source Water Inspections	96	65	71
<b>Surface Water Program</b>			
Surface Water Sampling	2	1	3
<b>Lead Program</b>			
HUD Lead Inspections	27	49	25
Lead Risk Assessments	90	60	34
Public Information Events	20	19	4
Children Tested for Lead Poisoning	2,370	1,485	775
<b>CAFO Program</b>			
Inspections Performed	8	0	0
<b>Air Quality Program</b>			
Indoor Air Quality Investigations	1	0	2
Mold Investigations	2	3	0
<b>Vector Program</b>			
Larvacide Swimming Pools/Stagnant Water	0	7	6
<b>Healthy Homes Program</b>			
Total Complaints	138	78	72
Dwellings Declared Unfit	10	15	13
<b>Massage Program</b>			
Establishment Inspections Performed	93	69	53
<b>Tattoo/Body Piercing Program</b>			
Inspections Performed	17	15	18

<b>Work Activities continued</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Complaints / Investigations</b>			
Trash	94	58	49
Sewage	58	71	40
Water (ditches, lakes, ponds & swells)	4	3	11
Motels/Hotels	3	0	1
Burning	14	7	2
Other	17	14	19
<b>Abatement Correspondence</b>			
Abatement Letters Sent	74	85	190
Immediate Threat to Public Health Letters Sent	5	2	1
Impending Legal Action Letters Sent	7	18	24

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## Food Services

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The St. Joseph County Health Department's Food Services Division permitted 1,512 food operations in 2015. The Division is authorized by state and local laws to ensure that food establishments in its jurisdiction serve food that is safe, honestly presented, and does not become a vehicle for the transmission of a food related illness. To accomplish this, the Food Services Division staff conduct unannounced on-site routine inspections designed to assess an establishment's level of compliance with state requirements, evaluate their adherence to local regulations, and educate or advise the food establishment's staff on best practices.

In addition to performing inspections, the Food Services Division has the responsibility of investigating complaints, reviewing plans for new or extensively remodeled establishments, inspecting food vendors at temporary events, conducting Public/Semi-Public Pool inspections, and investigating pool complaints. Fire investigations, consultations with establishment owners on regulations and food safety, and the collection and submission of samples for state analysis are also responsibilities of the Division.

### 2015 Highlights

The number of inspections an establishment receives annually is determined by the complexity of an establishment's menu and the degree of preparation required by the items. 1,966 retail inspections were completed in 2015 compared to 2,507 in 2014. This 21.6% decrease, in the number of retail inspections completed in 2015, was attributed to a reduction in the food inspection staff. The retirement of two food division staff in 2014, combined with the resignation of an additional food staff member in August of 2015, continued to impact the overall frequency of inspections. All food establishments received a minimum of one routine inspection, representing one inspection rotation cycle. This was down from the two full rotation cycles completed in 2014.

Food division staff investigated 18 fires in food establishments; representing a 125% increase over the eight fire investigations done in 2014. While most of the fires were minor, resulting in minimal damage and establishments were approved to re-open quickly, one establishment closed permanently and two other establishments remain closed.

### *Staffing*

Staff participated in educational workshops which included Recreational Waterborne Illness, Public Health Pest, and Epi-Ready trainings; an FDA Retail Food Safety seminar; sessions offered during the IEHA Annual Fall Conference held at the University of Notre Dame, in addition to monthly webinars covering a variety of food industry related topics.

One full-time Food Safety Inspection Officer was hired in October 2015.

### *Mobile Street Vending*

The Division's collaboration with the City of South Bend Licensing Department, which had been ongoing since 2014, resulted in the creation of an instructional manual to be used by prospective mobile food truck vendors. The Food Truck Guidelines provide step-by-step instructions designed to assist mobile owners/operators in securing Health Department permits for the mobile truck and a commissary. A commissary is a requirement of the mobile truck's operation. Also completed were revisions for Mobile Food Truck plan/review forms, applications, and inspection documents. The amendment to the City of South Bend ordinance, passed in October 2015, now allows Mobile Food Truck vending in St. Joseph County independent of any event or celebration.

<b>Food Division</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
Complaints - Food Service	122	141	179
Complaints - Food Store	26	27	28
Certificates of Perfect Inspection	528	512	403
Abatement Correspondence	28	25	50
Health Officer Hearings	8	17	16
Number of Opening Inspections	195	194	157
Retail Inspections Completed	2,807	2,507	1,966
Establishments Ordered to Cease Operations	15	30	10
Temporary Events *	155	164	174
Temporary Inspections	857	1,040	940
Possible Food Borne Illness Investigations	0	7	11
Smoking Complaints	28	2	3
Fire Investigations	6	8	18
<b>Pool Information</b>			
Number of Inspections	166	164	166
Consultations	62	58	1
Pool Complaints	13	4	1
Closings**	33	33	49
<b>Staff Development</b>			
Meetings and Trainings (Total In Hours)	86	51.25	81

\*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	2013		2014		2015	
	School (K-College)	Adults	School (K-College)	Adults	School (K-College)	Adults
Wellness	335	126	474	112	339	106
Substance Abuse Prevention	2	7	0	7	0	9
Communicable Disease	0	24	0	15	0	9
Sexuality	83	27	74	19	55	14
Chronic Disease	10	13	0	3	2	10
<b>Total Presentations (participants)</b>	<b>627 (12,830)</b>		<b>704 (13,352)</b>		<b>544 (9,964)</b>	

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

	2013	2014	2015
	38	37	34
<b>Total Participants</b>	2,877	3,135	3,473

### Highlighted Programs/Projects/Events

#### *St. Joseph County Health Improvement Alliance*

During 2015, the Health Improvement Alliance worked diligently on five focus areas (behavioral health, obesity, diabetes prevention and education, basic needs, and preventative wellness). The Health Alliance, made up of over 200 different community partners representing all areas of traditional public health and non-traditional public health, convened several times. The year-end meeting featured Dr. Richard Jackson, who is nationally known for his work on designing healthy communities. For 2016, the focus will remain on the five focus areas with the addition of a working group on substance abuse, which will begin to impact overdose deaths with education to providers on prescribing best practices.

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

2015 was a busy year for the Reducing Obesity Coalition of St. Joseph County! The largest accomplishment was the designation of the City of South Bend as the 1<sup>st</sup> city in the State and 3<sup>rd</sup> in the Midwest to become an All-Gold medal city for the National *Let's Move!* Initiative. In September, the Mayor of South Bend and the Director of Health Education were invited to the White House for a day-long summit and recognition by First Lady Michelle Obama of their accomplishments. Since then, a formal commitment to be an All-Star city has been submitted. The Walking School Bus program kicked off with seven primary centers enrolled, increasing physical activity for almost 500 local students.

## 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.

Numbers included in these tables are subject to change following Indiana State Department of Health reconciliation.

<b>Communicable Disease Surveillance</b>						
<b>Condition</b>	<b>2013</b>		<b>2014</b>		<b>2015*</b>	
	<b>Started</b>	<b>Confirmed</b>	<b>Started</b>	<b>Confirmed</b>	<b>Started</b>	<b>Confirmed</b>
Arboviral (other)	0	0	1	0	0	0
Campylobacteriosis	46	11	50	7	68	20
Chickungunya					3	1
Cryptococcus neoformans	2	2	0	0	7	5
Cryptosporidiosis	12	10	13	8	17	16
Dengue	0	0	2	0	1	0
Ehrlichiosis	2	0	1	0	0	0
Giardiasis	9	8	12	7	14	11
Hemolytic uremic syndrome	1	1	0	0	1	1
Hepatitis A	8	4	6	1	2	0
Hepatitis B – Acute	49	1	41	4	44	3
Hepatitis C – Acute	207	3	178	0	206	2
Hepatitis E	1	0	1	0	0	0
Histoplasmosis	3	2	5	5	8	6
Influenza - Associated Death	4	4	8	7	9	8
Invasive Haemophilus Influenzae**	6	5	3	2	2	2
Legionellosis	17	14	24	23	18	18
Leptospirosis	0	0	1	0	0	0
Listeriosis	1	1	2	2	1	1
Lyme Disease	44	11	62	18	112	4
Malaria	0	0	1	1	0	0
Measles (Rubeola)**	3	0	0	0	2	0
Meningitis, other	7	7	0	0	0	0
Meningococcal Invasive Disease	1	1	1	1	0	0
Mumps**	2	0	4	2	3	1
Pertussis (Whooping Cough)**	51	34	33	28	14	11
Rocky Mountain Spotted Fever	2	0	0	0	0	0
Salmonellosis	18	18	22	20	16	14
Shiga-toxin producing E. coli (O157 and others)	8	4	8	4	9	5
Shigellosis	5	4	61	58	9	8

Communicable Disease Continued	2013		2014		2015*	
	Started	Confirmed	Started	Confirmed	Started	Confirmed
Staphylococcus Aureus (VRSA) Invasive Disease	1	0	1	0	0	0
Streptococcal disease, invasive, Group B, Newborn	2	2	3	3	2	2
Streptococcus Group A Invasive Disease	8	7	14	13	12	12
Streptococcus Group B Invasive Disease	29	27	26	24	30	30
Streptococcus Pneumoniae (Invasive Pneumococcal Disease)**	49	43	37	37	37	35
Streptococcus Pneumoniae Invasive, Drug-Resistant (DRSP)	0	0	2	2	12	12
Toxic-shock syndrome, Streptococcal (STSS)	2	2	0	0	2	2
Varicella (Chickenpox)	11	3	6	0	7	0
Varicella (Involving Hospitalization or Death)**	1	0	0	0	1	0
West Nile virus non-neuroinvasive Disease (aka West Nile Fever)	0	0	1	0	2	0
Yersiniosis	1	1	1	1	1	1
<b>Total</b>	<b>613</b>	<b>230</b>	<b>631</b>	<b>278</b>	<b>672</b>	<b>231</b>

\*YTD data reflects the date range of 01/01/2015 – 12/31/2015 as of 01/06//2016.

\*\* Positive laboratory reports along with known demographics are forwarded to ISDH for investigations by the staff of the Vaccine-Preventable Disease Epidemiologist.

<b>Tuberculosis</b>			
	2013	2014	2015
TST Placed	1,676	715*	787
TST Positive	48	11*	30
Suspect Cases	125	218**	201
Active Cases	8	6	11

\*National shortage of Tubersol resulted in limited supply available to test patients.

\*\*Change in ISDH case management requirements and improved reporting of local cases resulted in an increase in cases.

<b>Case Management for Elevated Blood Lead Levels</b>			
	2013	2014*	2015
New Cases Received	14	96	98
Follow-up Cases Open at Close of the Year	25	49	68
Cases Closed	21	68	95

\*Change in CDC case management requirements in 2014, changing case definition from “children with blood lead levels  $\geq 10\mu\text{g}/\text{dL}$ ” to “children with blood lead levels  $\geq 5\mu\text{g}/\text{dL}$ ”.



<b>Immunizations</b>			
	<b>2013</b>	<b>2014</b>	<b>2015</b>
Td Adult, Preservative Free	24	35	32
Tdap	969	851	535
Dtap	200	193	165
DTaP/HepB/IPV	225	252	214
Dtap/IPV	207	209	98
Dtap/Hib/IPV	110	57	11
IPV	191	267	171
PCV13	429	388	310
PPSV23	11	13	2
MMR	306	282	265
Varicella	491	386	284
MMRV	335	324	225
Hib	321	317	279
Pediatric Hepatitis A	1,139	1,340	811
Pediatric Hepatitis B	163	158	98
Adult Hepatitis A	183	150	86
Adult Hepatitis B	230	171	91
Adult Hepatitis A and B	290	197	123
Pediatric Influenza	137	327	288
Flu Mist	6,153*	307**	118**
Adult Influenza	841	416	490
Meningitis	170	980	520
HPV Quadrivalent	713	1,119	383
HPV9	***	***	260
Rotavirus Monovalent	128	104	80
Rotavirus Pentavalent	14	16	0
Typhoid, Oral	219	132	81
Typhoid, VICPS	151	145	151
Yellow Fever	174	86	75
<b>Total Clinic Visits</b>	<b>10,624</b>	<b>4,419</b>	<b>2,908</b>
<b>Immunizations Administered</b>	<b>14,524</b>	<b>9,222</b>	<b>6,246</b>

\*2013 Flu Mist included 4,935 children in 37 elementary schools.

\*\*Flu Mist not offered in schools in 2014 or 2015.

\*\*\*HPV9 Vaccine first available in 2015.

<b>Animal Bites</b>						
	<b>2013</b>		<b>2014</b>		<b>2015</b>	
	Reported	Rabies +	Reported	Rabies +	Reported	Rabies +
Canine	321	0	363	0	394	0
Feline	92	0	117	0	132	0
Bat	17	0	16	1	20	0
Other	12	0	19	1	7	0
In County	142	0	101	0	107	0
Out of County	26	0	28	0	10	0
South Bend	155	0	273	0	282	0
Mishawaka	119	0	113	0	154	0
<b>Total</b>	<b>442</b>	<b>0</b>	<b>515</b>	<b>2</b>	<b>553</b>	<b>0</b>

## Vital Records

The data below includes all events that occurred within St. Joseph County during 2015. Numbers included in these tables are subject to change following Indiana State Department of Health reconciliation.

<b>Birth Data</b>			
	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Gender</b>			
Male	2,134	2,168	2,133
Female	2,060	2,079	2,165
Total Births	4,194	4,247	4,298
<b>Race/Ethnicity</b>			
White	3,293	3,277*	3,449
African American	770	566*	708
Asian Pacific	94	105*	111
Native American	22	2*	4
Other	15	266*	26
Hispanic	496	517*	513
Non-Hispanic	3,693	3,699*	3,785
Unknown	4	0*	0
Not Categorized	1	0*	0
<b>Birth Weight (in grams)<sup>A</sup></b>			
< 1,000 (Extremely Low Birth Weight)	44	78*	64
1,000 – 1,500 (Very Low Birth Weight)	52	66*	75
1,501 – 2,500 (Low Birth Weight)	317	452*	351
> 2,501	3,776	3,609*	3,808
Unknown	5	11*	0
<b>Maternal Age (in years)</b>			
< 15	1	3	4
15 – 18	206	165	157
19 – 24	1,269	1,194	1,230
25 – 29	1,202	1,271	1,300
30 – 34	1,017	1,043	1,044
35 – 39	410	477	464
≥ 40	89	94	99
<b>Maternal Characteristics<sup>B</sup></b>			
Inadequate Prenatal Care	422	455*	***
No Prenatal Care	24	57*	61
Tobacco Use	556	1,772*	492

<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>Birth Data continued</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Residency</b>			
St. Joseph County Resident	3,305	3,285	3,281
Out-of-County Resident	889	962	1,017
<b>Place of Birth</b>			
Memorial Hospital	2,295	2,498	2,510
Saint Joseph Regional Medical Center	1,740	1,704	1,742
Not Categorized**	59	45	46
<b>Birth Characteristics</b>			
Twins	76	86	81
Triplets	3	3	1
Cesarean Births	1,294 (31%)	1,052 (25%)*	1,322 (31%)
Congenital Anomalies	7	16*	22
<b>Other</b>			
Correction of Birth Certificate	171	96	132
Adoptions Processed	149	33	209

\*Missing file due to software conversion resulted in a loss of data for 31 births.

\*\*Births that due to State computer system glitch cannot be categorized accurately by Saint Joseph Regional Medical Center, Residence, or Other.

\*\*\* Unable to be calculated.

<b>Mortality Data</b>			
	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Gender</b>			
Male	1,335	1,390	1,385
Female	1,388	1,439	1,440
Total	2,723	2,829	2,825
<b>Race/Ethnicity</b>			
White	2,386	2,523*	2,502
African American	287	280*	306
Asian Pacific	13	10*	14
Native American	5	7*	3
Other	3	1*	0
Hispanic	29	42*	29
<b>Age at Death</b>			
Fetal Mortality Rate	5.4 per 1,000	7.8 per 1,000	5.8 per 1,000
0 – 28 days	29	34	33
29 days – 1 year	7	13	5
Infant Mortality Rate	8.2 per 1,000	8.5 per 1,000	5.5 per 1,000
1 year – 24 years	38	48	52
25 years – 44 years	102	120	137
45 years – 64 years	523	530	521
≥ 65 years	2,024	2,084	2,077

<b>Mortality Data continued</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Marital Status</b>			
Married	992	974	994
Widowed	930	1,032	928
Single	355	390	395
Divorced	432	428	502
Unknown	14	5	6
<b>Residence of Decedent</b>			
South Bend	1,431	1,427*	1,386
Mishawaka	523	562*	556
St. Joseph County	403	396*	432
Other Indiana Counties	209	277*	284
Other States	157	159*	167
<b>Place of Death</b>			
Nursing Home/Extended Care Facility	759	915	906
Residence	818	876	900
Memorial Hospital	456	478*	505
Saint Joseph Regional Medical Center	345	358*	342
Other	345	127*	172

\*8 deaths reassigned due to incorrect filing status.

<b>Causes of Death</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>AIDS</b>	2	1*	1
<b>Alzheimer's and Dementia</b>	194	174*	194
<b>Aspiration Pneumonia</b>	164	129*	146
<b>Cardiovascular</b>			
Coronary Artery Disease/Arteriosclerosis Heart Disease and Vascular Heart Disease	226	217*	270
Other Heart Disease	283	262*	351
Congestive Heart Failure	185	140*	135
Cerebral Vascular Accident	91	86*	155
<b>Chronic Obstructive Pulmonary Disease and Emphysema</b>	98	82*	142
<b>Renal Failure</b>	79	40*	85
<b>Cancer – Gastrointestinal</b>			
Colon	35	40*	37
Pancreatic	43	34*	36
Esophageal	12	13*	15
Rectal	4	6*	3
<b>Cancer – Respiratory</b>	147	142*	149
<b>Cancer – Urogenital</b>	81	66*	67

<b>Causes of Death continued</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Cancer - Integumentary</b>			
Breast	41	29*	36
Skin	10	3*	7
<b>Cancer – Heme and Lymph</b>			
Leukemia	17	18*	13
Lymphoma	24	24*	18
<b>Other Cancers</b>	100	13*	129
<b>Total Cancer Deaths</b>	514	496*	656
<b>Accidental Deaths</b>			
Drug Related	36	42*	56
Motor Vehicle	37	40*	30
Other Accidents	44	31*	39
<b>Suicides (Total)</b>	39	36*	45
Drugs	5	2*	5
Firearms	18	20*	22
Hanging	14	8*	14
Other	2	6*	5
<b>Homicides (Total)</b>	13	22*	22
<b>Misc.</b>	605	1,012*	369

\*8 deaths reassigned due to incorrect filing status.