



# Indiana State Department of Health

## WEEKLY INFLUENZA REPORT

*Data as of Monday, March 15, 2010 (CDC Week 10)*

The following report is meant to provide local health departments, hospital administrators, and health professionals with an in depth understanding of the burden of influenza-like illness (ILI) and pneumonia on Indiana residents to help guide clinical practice and community mitigation efforts. Data from several surveillance programs were utilized to produce this report. While the Indiana State Department of Health (ISDH) Laboratory is currently testing a representative number of samples for the 2009 H1N1 influenza virus, the majority of the ISDH surveillance efforts are unable to discern between influenza illness due to this novel strain and other circulating viruses. Caution should be taken when examining this data, understanding that it is mostly descriptive of all circulating viruses and not just 2009 H1N1.

For further information about the data presented in this report, please call the ISDH Surveillance and Investigation Division at 317-233-7125.

## Key Points for Week 10, 2010

### **Burden of Influenza-Like Illness (ILI) in the Community**

- The percentage of ILI reported by the emergency department (ED) surveillance system decreased slightly compared to the previous week (1.8% compared to 2.0%, respectively).
- The percent of patients presenting at sentinel providers with ILI remained stable compared to the previous week (1.2% compared to 1.2%, respectively).

### **Severity of Influenza-Like Illness and/or Pneumonia in the Community**

- The rate of ILI and/or pneumonia-related hospitalizations per 100 inpatient beds decreased slightly (decreased by 4%) compared to the weighted moving average from the previous three weeks.
- 5% of reporting hospitals stated that the number of ILI-related hospitalizations is currently “slightly elevated” or “elevated” compared to previous years. This is compared to 6% from the previous reporting week.
- There were no confirmed influenza-related deaths reported during Week 10, 2010.
  - There have been a total of 42 influenza-related deaths since June 1, 2009, of which 39 had confirmed 2009 H1N1.

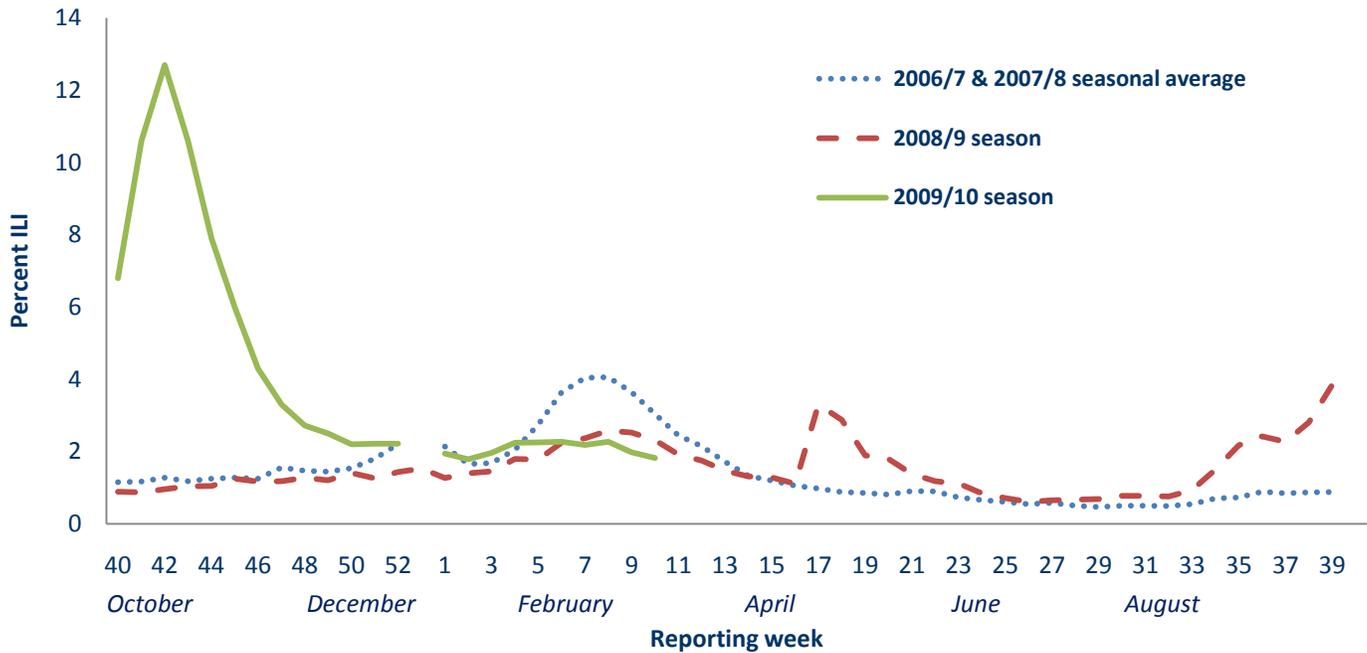
### **Effect of Influenza-like Illness on Populations at Risk**

- ILI-related absentee rates in health care personnel decreased compared to the weighted moving average from the previous three weeks (0.19 compared to 0.28 ILI-related absences per 100 employees, respectively).

### **Laboratory and Vaccination Information**

- During Week 10, 2010, 0/3 (0%) specimens tested by the ISDH Laboratory for influenza were positive.
- Since September 1, 2009, 98.3% (476/484) of specimens that were positive for influenza were 2009 H1N1.
  - 84% of the 2009 H1N1-positive specimens submitted have been collected from persons 0–24 years of age.
- Other respiratory viruses have been circulating in addition to influenza (e.g., Adenovirus, Enterovirus), but none were identified in samples submitted during Week 10, 2010.
- In Indiana, as of March 16, 2010, a total of 1,320,975 2009 H1N1 vaccinations had been given and recorded into the Children and Hoosiers Immunization Registry Program (CHIRP) database.
- According to CHIRP data, 29.1% of the estimated number of “high risk” persons in Indiana have received the 2009 H1N1 vaccine.
- Of the 318,453 children, 6 months–9 years of age, who have received the 1<sup>st</sup> dose of 2009 H1N1, 56% (178,262 children) received it >28 days ago and have not received the 2<sup>nd</sup> recommended dose.
  - A total of 105,914 children, 6 months–9 years of age, have received the recommended two doses of 2009 H1N1 (The CDC recommends that children, 6 months–9 years of age, receive two doses of 2009 H1N1 vaccine at least 28 days apart to have a high level of immunity).

Percent of patients who presented at an emergency department (ED) with a chief complaint relating to influenza-like illness – Indiana, 2009/10 & 2008/9 seasons vs. 2006/7 & 2007/8 seasonal averages.\*† (EDs currently reporting = 76)  
 Health District-level data is available at the end of this report.



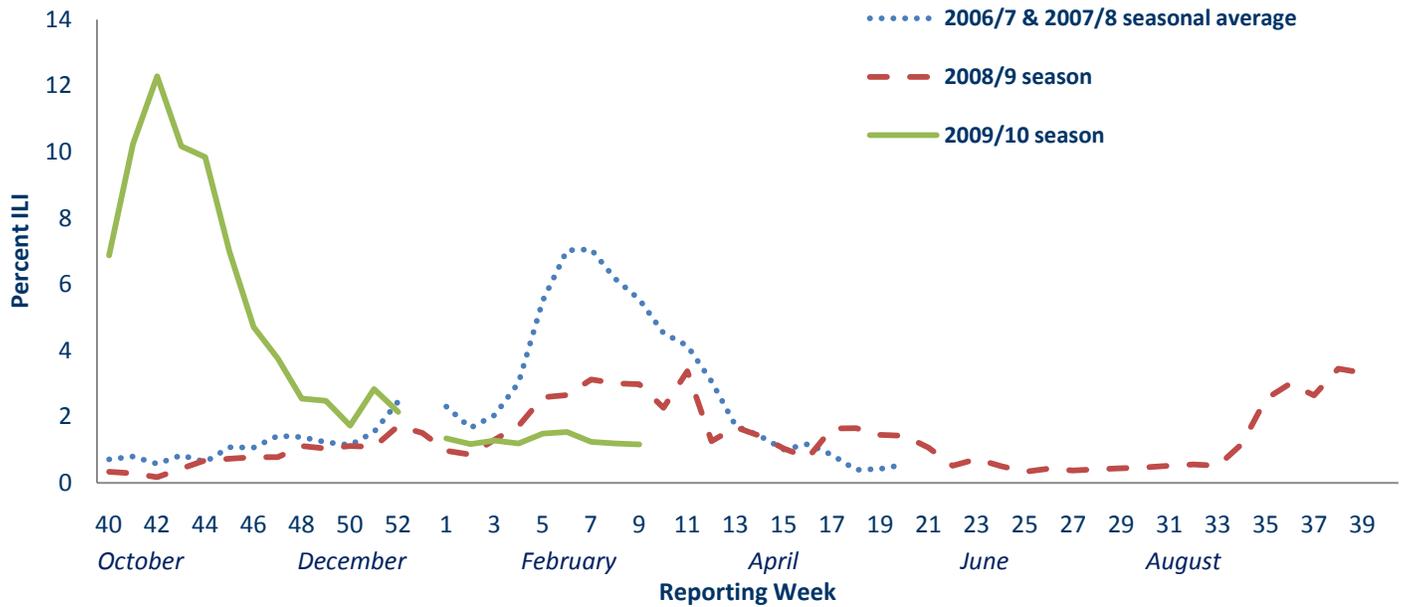
\*Data obtained from the ISDH Public Health Emergency Surveillance System (PHESS). The 2008/9 season had a “Week 53” which the 2006/7, 2007/8, and 2009/10 seasons did not have, explaining the break in the lines.

† PHESS data is very timely, so the data reported is for the most current week.

### Key Findings

- The percentage of ILI reported by the emergency department (ED) surveillance system decreased slightly compared to the previous week (1.8% compared to 2.0%, respectively).

**Percent of patients who presented at sentinel provider clinics with symptoms relating to influenza-like illness – Indiana, 2009/10 & 2008/9 seasons vs. 2006/7 & 2007/8 seasonal averages.\*† (Number of sentinel provider clinics who reported this week = 25)**



\*Data obtained from the ISDH Sentinel Influenza Surveillance System. No data is available for weeks 21-39 during the 2006/7 and 2007/8 seasons due to decreased reporting during traditionally non-influenza months. The 2008/9 season had a “Week 53” which the 2006/7, 2007/8, and 2009/10 seasons did not have, explaining the break in the lines.

†Sentinel data has limited timeliness, so the data reported is for the week before the most current week. This data is subject to change as sentinel sites can back-date their weekly reports.

**Sentinel reported influenza-like illness (ILI) by sentinel type and reporting week – Indiana, 2009/10 season.\***

Reporting Week	All Reporters (%ILI)	Universities (%ILI)	Non-Universities (%ILI)
Week 9, 2010	1.2	0.5	1.5
Week 8, 2010	1.2	0.4	1.6
Week 7, 2010	1.2	1.1	1.3

\*Data obtained from the ISDH Sentinel Influenza Surveillance System. This data is subject to change as sentinel sites can back-date their weekly reports.

**Sentinel reported influenza-like illness (ILI) by age category for the most current week reported – Indiana, 2009/10 season.\*†**

<b>Age category (yrs)</b>	<b>Total number with ILI</b>	<b>Percent with ILI</b>
<b>0-4</b>	23	24.7
<b>5-24</b>	47	50.5
<b>25-49</b>	17	18.3
<b>50-64</b>	3	3.2
<b>65+</b>	3	3.2
<b>Total</b>	<b>93</b>	<b>100.0</b>

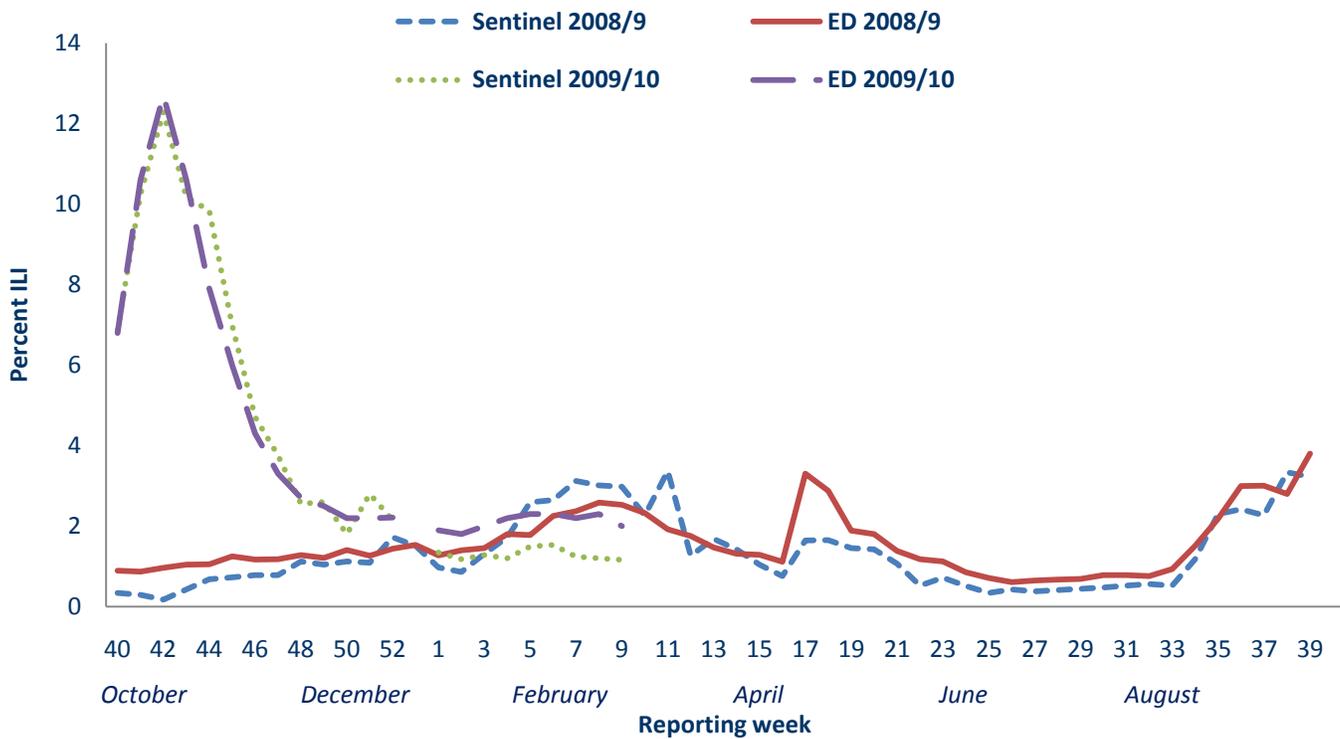
*\*Data obtained from the ISDH Sentinel Influenza Surveillance System.*

*\*Sentinel data has limited timeliness, so the data reported is for the week before the most current week. This data is subject to change as sentinel sites can back-date their weekly reports.*

**Key Findings**

- The percent of patients presenting at sentinel providers with ILI remained stable compared to the previous week (1.2% compared to 1.2%, respectively).
- Younger populations (0-25 years of age) continued to have the highest tendency (75.2% of the patient population) to seek care for ILI at sentinel provider clinics.

**Emergency department versus sentinel provider clinic data regarding the percent of patients presenting with influenza-like illness – Indiana, 2008/9 and 2009/10 influenza seasons.\***



\*Data obtained from the ISDH Sentinel Influenza Surveillance System and the ISDH Public Health Emergency Surveillance System (PHESS). The 2008/9 season had a “Week 53” which the 2006/7, 2007/8, and 2009/10 seasons did not have, explaining the break in the lines.

† Sentinel data has limited timeliness, so the data reported is for the week before the most current week. This data is subject to change as sentinel sites can back-date their weekly reports.

Reporting Week	ED Surveillance (%ILI)	Sentinel Surveillance (%ILI)
Week 9, 2010	2.0	1.2
Week 8, 2010	2.3	1.2
Week 7, 2010	2.2	1.2

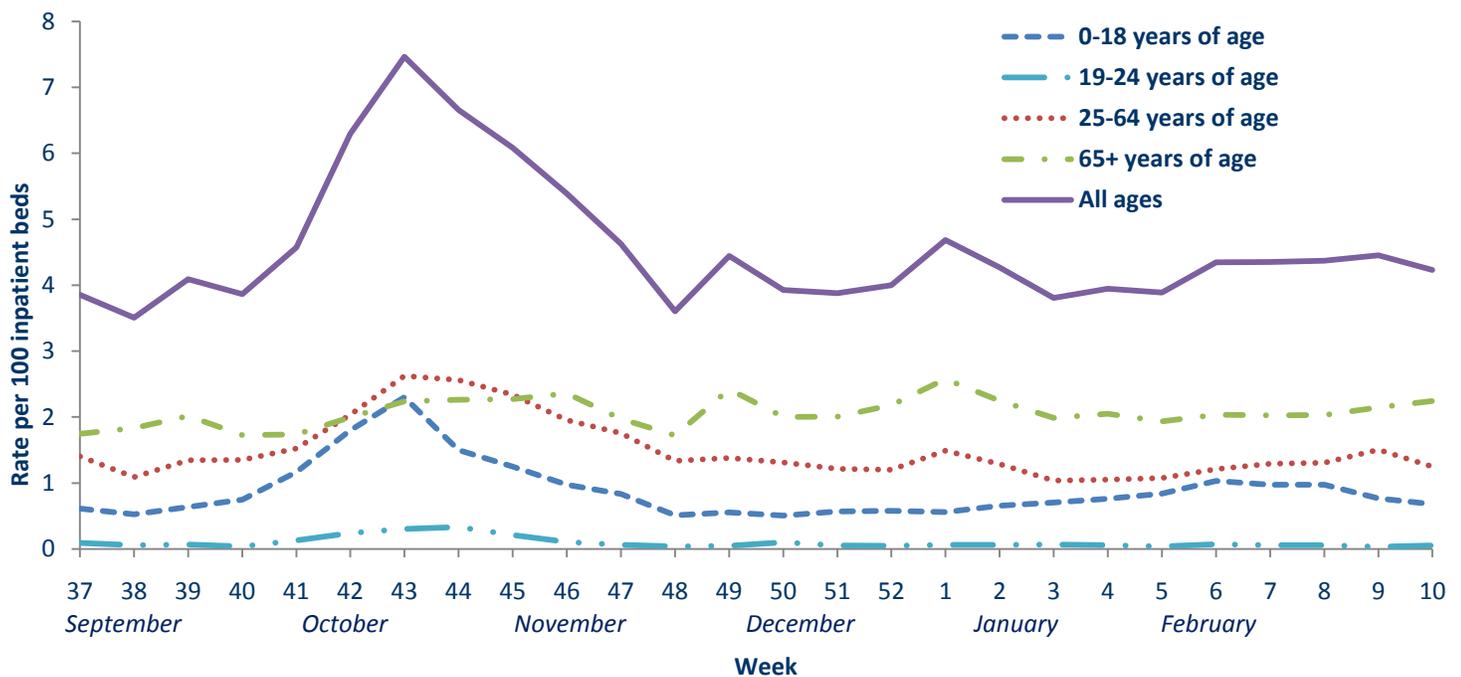
**Key Findings**

- During Week 9, 2010, the percentage of patients presenting with ILI reported by EDs decreased slightly and sentinel clinics remained relatively stable compared to the previous week.
  - Overall, the sentinel and emergency department ILI data continue to follow common trends.

**Number of newly hospitalized patients with influenza-like illness and/or pneumonia syndrome, by age category – Indiana, 2009/10 influenza season. Health District-level data is available at the end of this report.\***

	This week's numbers [69 hospitals (13,381 beds) reporting]			2010 total		Total since September 9, 2009	
	Age category (yrs)	Total number	Rate per 100 inpatient beds †	Total number	Rate per 100 inpatient beds †	Total number	Rate per 100 inpatient beds †
Number of persons hospitalized with influenza and/or pneumonia syndrome	0-4	76	0.57	995	0.66	2,461	0.59
	5-18	15	0.11	207	0.14	1,338	0.32
	19-24	7	0.05	83	0.06	416	0.10
	25-49	75	0.56	727	0.48	2,785	0.66
	50-64	92	0.69	1,145	0.76	3,579	0.85
	65+	300	2.24	3,181	2.12	8,651	2.07
	Unknown	1	0.01	9	0.01	74	0.02
	<b>Total</b>	<b>566</b>	<b>4.23</b>	<b>6,347</b>	<b>4.23</b>	<b>19,304</b>	<b>4.61</b>

**Rate of new influenza-like illness and/or pneumonia syndrome hospitalizations per 100 available inpatient beds, by reporting week and age category – Indiana, 2009/10 influenza season.\* † (Some age categories were grouped to improve the ability to decipher the figure)**



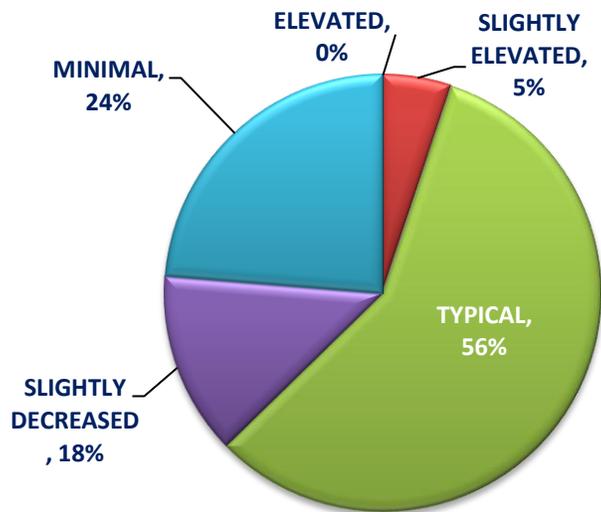
\*Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects cases who presented with symptoms or had ICD-9/10 codes relating to influenza-like illness and/or pneumonia.

†The number of inpatient beds is the total number of available inpatient beds currently available at the reporting hospitals and include the following bed classifications: intensive care unit, medical and surgical, medical and surgical negative pressure isolation, pediatrics, pediatric intensive care unit, emergency department, emergency department negative pressure isolation, and skilled beds.

## Key Findings

- The rate of ILI and/or pneumonia-related hospitalizations per 100 inpatient beds decreased slightly (decreased by 4%) compared to the weighted moving average from the previous three weeks.
  - A weighted moving average (utilizing the previous three weeks' data) is used as the baseline to determine if significant increases/decreases are occurring in ILI and pneumonia -related hospitalization rates.
- Reported cases of pneumonia syndrome are inclusive of all pneumonias, not just influenza-associated pneumonias (e.g., Klebsiella, MRSA).
- The hospitalization data were reported from either admitting or discharge diagnosis depending on each hospital's ability to report their data.

**Extent of the burden of influenza-like illness-related hospitalizations per hospital reports – Indiana, Current Reporting Week, 2009/10 influenza season.\***



**N = 59  
hospitals  
reporting**

**ELEVATED** = Highly elevated number of ILI-related hospitalizations compared to previous years (more than double)  
**SLIGHTLY ELEVATED** = Slight increase in the number of ILI-related hospitalizations compared to previous years  
**TYPICAL** = Roughly the same number of ILI-related hospitalizations compared to previous years  
**SLIGHTLY DECREASED** = Decreased number of ILI-related hospitalizations compared to previous years  
**MINIMAL** = No/minimal ILI-related hospitalizations compared to previous years

*\*Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects each hospital's perception of the burden of influenza-like illness*

**Key Findings**

- 5% of reporting hospitals stated that the number of ILI-related hospitalizations is currently “slightly elevated” or “elevated” compared to previous years. This is compared to 6% from the previous reporting week.

**Number of new deaths associated with influenza-like illness and/or pneumonia syndrome, by age category – Indiana, 2009/10 influenza season. Health District-level data is available at the end of this report.\***

	This week's numbers [69 hospitals (13,381 beds) reporting]]		2010 totals	Numbers since September 9, 2009
	Age category (yrs)	Total number	Total number	Total number
<b>Number of deaths associated with influenza and/or pneumonia syndrome</b>	0-4	0	0	2
	5-18	0	1	6
	19-24	0	0	4
	25-49	0	9	41
	50-64	1	23	69
	65+	11	119	300
	Unknown	0	1	5
	<b>Total</b>	<b>12</b>	<b>153</b>	<b>427</b>

*\*Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects case patients who presented with symptoms or had ICD-9/10 codes relating to influenza-like illness and/or pneumonia.*

**Key Findings**

- The 12 reported Indiana deaths were from ILI and/or pneumonia syndrome. These are not confirmed 2009 H1N1 deaths or influenza-associated pneumonias.
- Influenza associated deaths are reportable to the health department within 72 hours of knowledge of death under the communicable disease rule.

**Number of new deaths associated with laboratory confirmed influenza, by age category – Indiana, June 2009-present\***

	This week's numbers		2010 totals	Numbers since June 1, 2009
	Age category (yrs)	Number of influenza deaths (# with confirmed 2009 H1N1)	Number of influenza deaths (# with confirmed 2009 H1N1)	Number of influenza deaths (# with confirmed 2009 H1N1)
<b>Number of deaths associated with influenza and/or pneumonia syndrome</b>	0-4	0(0)	0(0)	3(3)
	5-18	0(0)	0(0)	4(3)
	19-24	0(0)	0(0)	4(4)
	25-49	0(0)	2(1)	20(19)
	50-64	0(0)	1(1)	6(6)
	65+	0(0)	1(1)	4(3)
	Unknown	0(0)	0(0)	1(1)
	<b>Total</b>	<b>0(0)</b>	<b>4(3)</b>	<b>42(39)</b>

*\*Data obtained from the ISDH Laboratory and via the Indiana mandatory influenza-related death reporting rule. The case must be a confirmed influenza case to be counted.*

**Key Findings:**

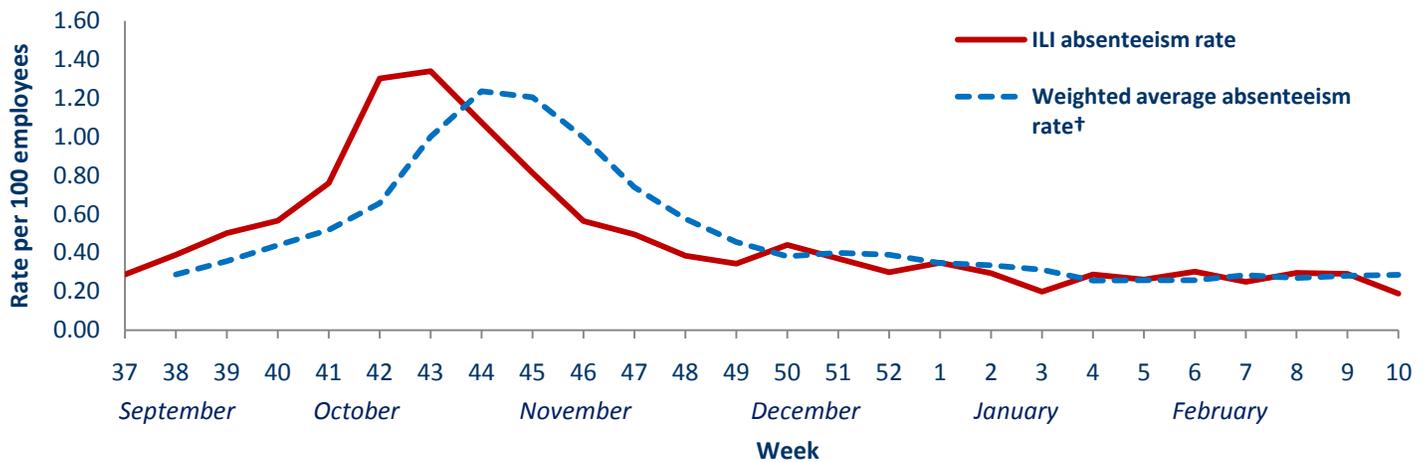
- There were no confirmed influenza-related deaths reported during Week 10, 2010.
  - There have been a total of 42 influenza-related deaths since June 1, 2009, of which 39 had confirmed 2009 H1N1.

**Number of health care personnel who missed work due to influenza-like illness – Indiana, 2009/10 influenza season. Health District-level data is available at the end of this report.\***

	<b>This week's numbers (56 hospitals reporting)</b>	<b>2010 average</b>	<b>Weekly average since September 9, 2009</b>
<b>Total with ILI</b>	86	134	274
<b>Total # of employees</b>	45,418	49,154	52,882
<b>Rate per 100 employees</b>	0.19	0.27	0.52

*\*Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects the number of health care personnel who reported missing work due to influenza-like illness in a given week.*

**Rate of health care professional ILI-related absenteeism – Indiana, 2009/10 influenza season\***



*\*Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program.*

*† The “weighted average absenteeism rate” is a weighted moving average that utilizes data from the previous three reporting weeks. It is used as a threshold to determine if the current week’s rate is higher or lower than what is expected based on previous weeks’ data. There is no comparison data for Week 37.*

**Number of health care personnel who missed work due to any illness – Indiana, 2009/10 influenza season. Preparedness District-level data is available at the end of this report. (This data was reported only if a hospital was unable to report influenza-like illness-related absences.)\***

	<b>This week's numbers (5 hospitals reporting)</b>	<b>2010 average</b>	<b>Weekly average since September 9, 2009</b>
<b>Total with any illness</b>	193	222	200
<b>Total # of employees</b>	10,313	10,023	9,035
<b>Rate per 100 employees</b>	1.87	2.22	2.21

*\*Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects the number of health care personnel who reported missing work due to any illness in a given week.*

**Key Findings:**

- ILI-related absentee rates in health care personnel decreased compared to the weighted moving average from the previous three weeks.
  - 0.19 compared to 0.28 ILI-related absences per 100 employees, respectively.

ISDH Laboratory data regarding circulating influenza viruses – Indiana, 2009/10 influenza season.\*

PCR Result	This week's total		2010 total		Total since September 1, 2009	
	Number	Percent of specimens received	Number	Percent of specimens received	Number	Percent of specimens received
Pandemic 2009 A/H1N1 virus	0	0%	14	20%	476	48%
Influenza A/H3 seasonal virus	0	0%	0	0%	6	<1%
Influenza A/H1 seasonal virus	0	0%	0	0%	0	0%
Influenza B seasonal virus	0	0%	1	1.5%	2	<1%
Influenza negative	2	67%	53	77%	470	47%
Inconclusive	1	33%	1	1.5%	13	1%
Unsatisfactory specimen†	0	0%	0	0%	31	3%
<b>Total</b>	<b>3</b>	<b>100%</b>	<b>69</b>	<b>100%</b>	<b>998</b>	<b>100%</b>

\*Data obtained from the ISDH Laboratory via specimens submitted from the ISDH Sentinel Influenza Surveillance System.

†Unsatisfactory specimens include specimens that leaked in transit, were too long in transit, or were inappropriately labeled.

2009 H1N1-positive samples by age group – Indiana, 2009/10 influenza season.\*

	Age category (yrs)	This week's numbers		2010 totals		Since September 1, 2009	
		Total number	Percent by age group	Total number	Percent by age group	Total number	Percent by age group
2009 H1N1-positive specimens	0-4	0	0%	0	0%	38	8%
	5-18	0	100%	1	7%	135	28%
	19-24	0	0%	10	71%	228	48%
	25-49	0	0%	1	7%	51	11%
	50-64	0	0%	2	14%	17	4%
	65+	0	0%	0	0%	3	<1%
	Unknown	0	0%	0	0%	4	<1%
	<b>Total</b>	<b>0</b>	<b>0%</b>	<b>14</b>	<b>100%</b>	<b>476</b>	<b>100%</b>

\*Data obtained from the ISDH Laboratory via specimens submitted from the ISDH Sentinel Influenza Surveillance System.

**OTHER CIRCULATING VIRUSES RECENTLY IDENTIFIED BY THE ISDH LABORATORY:**

Other Respiratory Viruses	This Week	2010 Total	Total Since Sept. 1
Adenovirus	0	2	3
Coxsackie B Virus	0	0	24
Echovirus	0	0	3
Enterovirus NOS	0	5	44
Influenza B Virus	0	0	1
Parainfluenza 1 Virus	0	1	5
Parainfluenza 2 Virus	0	0	7
Parainfluenza 3 Virus	0	0	1
Rhinovirus	0	0	12
<b>Total</b>	<b>0</b>	<b>8</b>	<b>100</b>

**Key Findings:**

- During Week 10, 2010, 0/3 (0%) specimens tested by the ISDH Laboratory for influenza were positive.
- Since September 1, 2009, 98.3% (476/484) of specimens that were positive for influenza were 2009 H1N1.
  - 84% of the 2009 H1N1-positive specimens submitted have been collected from persons 0–24 years of age.
- Other respiratory viruses have been circulating in addition to influenza (e.g., Adenovirus, Enterovirus), but none were identified in samples submitted during Week 10, 2010.

**2009 H1N1 vaccinations administered and recorded in the Children and Hoosiers Immunization Registry Program (CHIRP) database, by county of residence – Indiana, data as of March 16, 2010\***

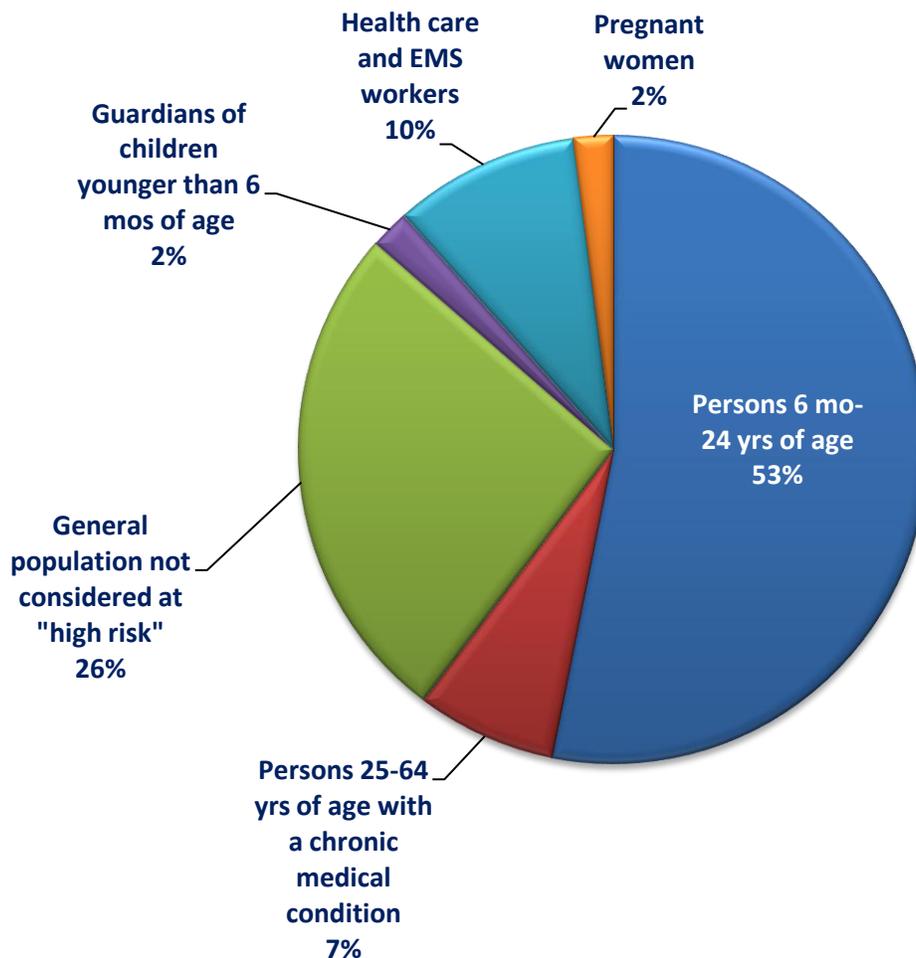
County	Persons 6 months to 24 yrs of age	Persons with chronic health conditions, 25 to 64 yrs of age	General population	Guardians of children younger than 6 months of age	Health care and EMS workers	Pregnant woman	Total vaccinated, by county of residence
Adams	4,126	408	1,188	227	809	136	6,894
Allen	31,413	3,283	17,268	3,252	7,873	1,618	64,707
Bartholomew	9,885	1,589	4,784	448	1,872	421	18,999
Benton	837	200	706	32	108	18	1,901
Blackford	1,462	312	626	94	425	53	2,972
Boone	6,913	1,135	3,808	313	1,591	304	14,064
Brown	1,646	522	979	67	366	65	3,645
Carroll	1,618	322	1,326	50	235	45	3,596
Cass	5,777	650	2,531	110	1,017	151	10,236
Clark	16,303	957	7,846	157	1,285	332	26,880
Clay	2,923	373	1,071	58	673	60	5,158
Clinton	4,097	632	2,275	143	708	124	7,979
Crawford	667	134	789	21	103	18	1,732
Daviess	3,143	348	1,301	169	585	132	5,678
De Kalb	5,566	422	3,088	92	820	191	10,179
Dearborn	7,295	856	2,598	77	779	205	11,810
Decatur	3,973	333	1,997	78	420	137	6,938
Delaware	9,872	2,624	7,049	350	3,092	541	23,528
Dubois	7,143	390	2,022	246	925	213	10,939
East Chicago	2,059	186	802	41	107	28	3,223
Elkhart	30,460	1,961	7,250	501	3,399	794	44,365
Fayette	2,764	972	1,275	184	585	93	5,873
Floyd	9,061	1,016	4,496	44	1,122	348	16,087
Fountain	2,077	253	1,055	32	194	49	3,660
Franklin	2,234	392	1,188	52	194	52	4,112
Fulton	2,722	556	720	197	421	49	4,665
Gary City HD	2,114	114	589	16	94	15	2,942
Gibson	3,519	410	2,997	166	615	154	7,861
Grant	7,797	630	4,590	169	1,436	292	14,914
Greene	3,574	631	1,399	126	812	80	6,622
Hamilton	47,049	2,988	16,893	1,585	5,736	1,801	76,052
Hancock	10,453	1,272	3,575	444	1,474	370	17,588
Harrison	5,251	379	2,832	79	620	91	9,252
Hendricks	20,017	2,357	8,821	783	3,671	911	36,560
Henry	4,907	1,155	3,950	260	1,397	162	11,831
Howard	5,888	1,247	4,954	131	1,889	326	14,435
Huntington	4,290	852	2,107	277	896	178	8,600
Jackson	3,715	695	3,574	53	806	183	9,026
Jasper	2,275	453	1,709	86	550	113	5,186
Jay	2,211	384	1,191	132	654	93	4,665
Jefferson	5,641	756	2,898	129	965	200	10,589

County	Persons 6 months to 24 yrs of age	Persons with chronic health conditions, 25 to 64 yrs of age	General population	Guardians of children younger than 6 months of age	Health care and EMS workers	Pregnant woman	Total vaccinated, by county of residence
Jennings	3,838	533	1,436	206	746	102	6,861
Johnson	10,092	2,261	7,678	495	2,316	609	23,451
Knox	3,446	1,194	2,119	129	1,303	210	8,401
Kosciusko	6,126	1,371	2,837	385	1,441	355	12,515
La Porte	13,199	1,755	5,186	247	2,123	406	22,916
Lagrange	3,586	527	1,153	67	421	107	5,861
Lake	24,790	3,630	8,984	936	5,202	675	44,217
Lawrence	3,962	753	2,929	83	1,002	175	8,904
Madison	7,008	1,946	5,443	219	2,833	490	17,939
Marion	87,298	10,359	41,810	2,744	11,787	3,534	157,532
Marshall	4,624	505	2,210	72	846	95	8,352
Martin	1,145	276	584	38	126	51	2,220
Miami	3,036	881	1,437	75	560	127	6,116
Monroe	17,976	2,734	7,846	364	3,175	629	32,724
Montgomery	3,519	767	2,627	95	767	164	7,939
Morgan	9,043	1,473	3,181	186	1,038	292	15,213
Newton	1,167	246	559	16	121	36	2,145
Noble	4,026	377	2,395	121	823	149	7,891
Ohio	959	121	631	46	196	25	1,978
Orange	2,500	572	970	98	327	72	4,539
Out of State	6,084	1,435	7,015	397	3,443	435	18,809
Owen	1,662	464	731	158	325	46	3,386
Parke	1,576	418	1,292	22	221	29	3,558
Perry	2,004	755	1,723	160	336	59	5,037
Pike	1,842	431	987	217	378	102	3,957
Porter	19,254	1,622	5,792	1,366	2,920	468	31,422
Posey	1,910	409	1,426	172	585	85	4,587
Pulaski	2,003	270	963	79	348	53	3,716
Putnam	3,185	155	2,361	48	494	70	6,313
Randolph	3,424	721	1,347	246	752	119	6,609
Ripley	6,721	627	3,134	172	1,019	208	11,881
Rush	1,710	460	827	95	486	55	3,633
Scott	3,737	602	1,466	68	334	94	6,301
Shelby	5,742	1,597	1,765	314	824	214	10,456
Spencer	2,462	471	1,461	85	347	77	4,903
St. Joseph	32,640	3,702	11,096	1,520	5,317	1,355	55,630
Starke	2,059	577	978	79	419	50	4,162
Steuben	2,162	364	3,102	74	346	66	6,114
Sullivan	2,365	111	1,409	18	489	71	4,463
Switzerland	1,254	266	1,012	45	169	43	2,789
Tippecanoe	17,097	3,088	11,464	567	4,174	839	37,229
Tipton	2,394	129	1,237	40	343	48	4,191
Union	965	381	382	169	264	29	2,190

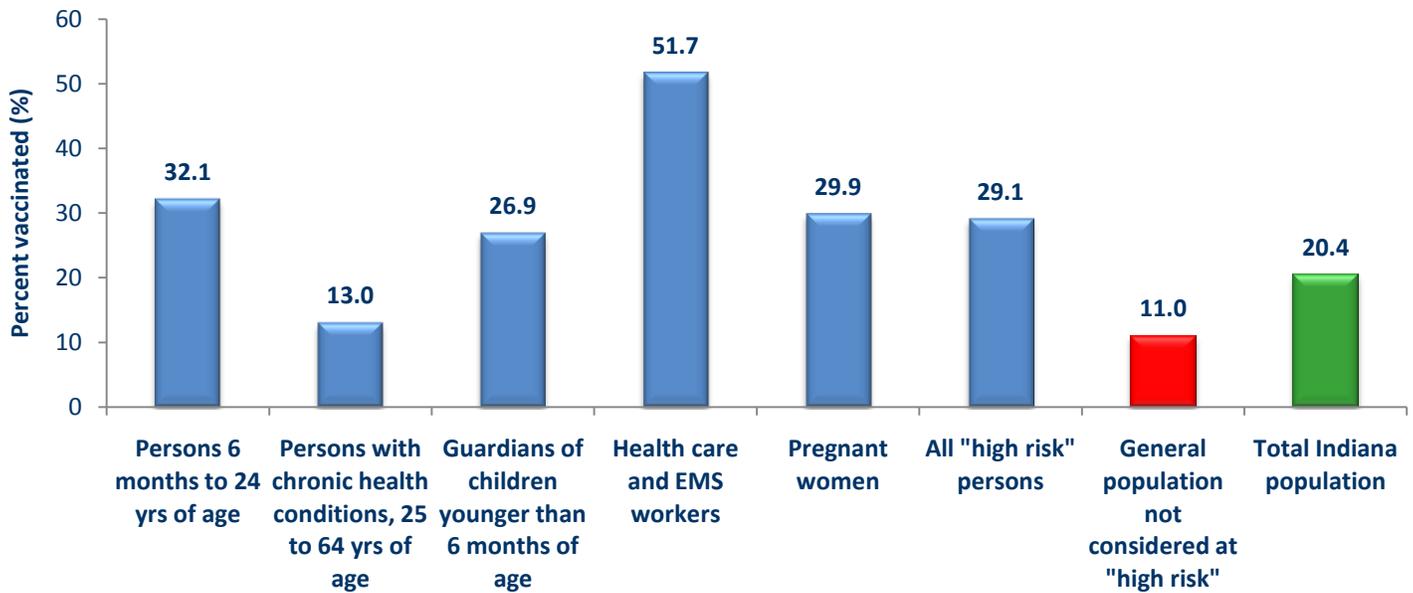
County	Persons 6 months to 24 yrs of age	Persons with chronic health conditions, 25 to 64 yrs of age	General population	Guardians of children younger than 6 months of age	Health care and EMS workers	Pregnant woman	Total vaccinated, by county of residence
Vanderburgh	14,748	2,259	13,563	725	5,035	703	37,033
Vermillion	2,031	199	777	16	237	21	3,281
Vigo	12,126	730	4,520	70	1,832	448	19,726
Wabash	3,332	570	1,961	132	654	139	6,788
Warren	858	101	551	16	229	31	1,786
Warrick	8,709	771	5,326	339	1,929	418	17,492
Washington	1,772	841	1,278	69	415	62	4,437
Wayne	8,775	1,742	4,709	394	1,680	317	17,617
Wells	3,323	424	1,173	163	706	120	5,909
White	2,492	426	1,689	129	359	149	5,244
Whitley	3,399	306	1,968	175	670	151	6,669
<b>Grand Total</b>	<b>701,894</b>	<b>94,854</b>	<b>344,617</b>	<b>26,432</b>	<b>126,555</b>	<b>26,623</b>	<b>1,320,975</b>

*\*While all 2009 H1N1 vaccine administrations are required to be entered into the CHIRP database, there can be a delay between the time the vaccine is given and when it is recorded. Therefore, the true number of 2009 H1N1 vaccines that have been given is larger than the amount documented in this report.*

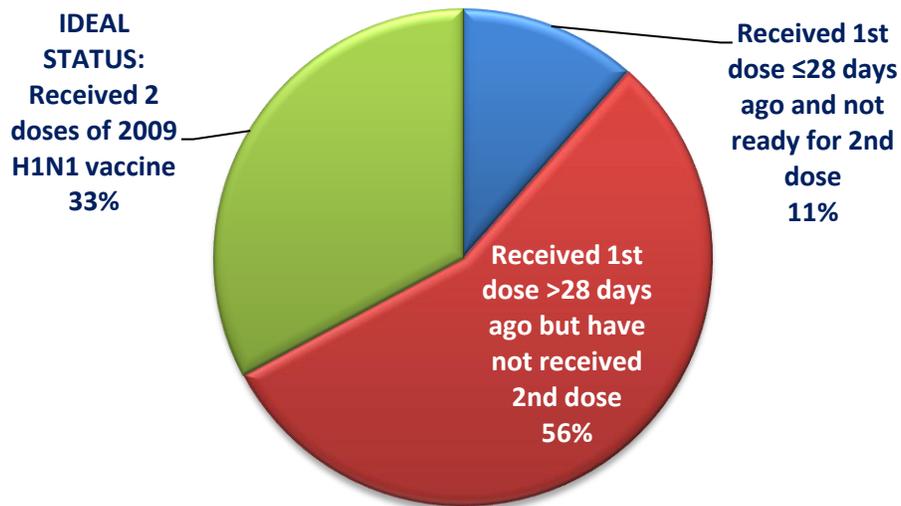
**Percent of 2009 H1N1 vaccine distributed, by risk category – Indiana, data reported into CHIRP as of March 16, 2010**



**Percent of the estimated number of Indiana residents in each risk category who have received the 2009 H1N1 vaccine – data reported into CHIRP as of March 16, 2010 (“Out of state” vaccine recipients were removed from calculation)**



**Percent of children, 6 months–9 years of age, who have received the recommended two doses of 2009 H1N1 vaccine – Indiana, data reported into CHIRP as of March 9, 2010. (318,453 children under the age of 10 years have received at least one dose of 2009 H1N1 vaccine. The CDC recommends that children, 6 months–9 years of age, receive two doses of 2009 H1N1 vaccine at least 28 days apart to have a high level of immunity. )**



**Key Findings:**

- In Indiana, as of March 16, 2010, a total of 1,320,975 2009 H1N1 vaccinations had been given and recorded into the Children and Hoosiers Immunization Registry Program (CHIRP) database.
- According to CHIRP data, 29.1% of the estimated number of “high risk” persons in Indiana have received the 2009 H1N1 vaccine.
- Of the 318,453 children, 6 months–9 years of age, who have received the 1<sup>st</sup> dose of 2009 H1N1, 56% (178,262 children) received it >28 days ago and have not received the 2<sup>nd</sup> recommended dose.
  - A total of 105,914 children, 6 months–9 years of age, have received the recommended two doses of 2009 H1N1 (The CDC recommends that children, 6 months–9 years of age, receive two doses of 2009 H1N1 vaccine at least 28 days apart to have a high level of immunity).

# DISTRICT RATES & TRENDS

## March 15, 2010

### Pneumonia and Influenza Hospitalization Surveillance

Hospitalization (inpatient beds) and health care professional (HCP) rates by District, illustrated by a swatch. Each swatch quadrant represents a specific measurement. Districts with no report left blank.

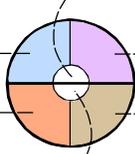
#### Hospitalization Rate

Rate of hospitalizations for ILI per 100 inpatient beds from reporting hospitals.

#### Attributable Mortality Rate

Mortality rate attributable to ILI per 100 inpatient beds from reporting hospitals.

% of inpatient beds with data available\*



% of hospitals reporting HCP data

#### HCP Illness Rate

Rate of general illness in HCP per 100 employees. Used if ILI cannot be measured.

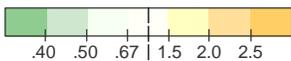
#### HCP Influenza-like Illness Rate

Rate of ILI in HCP per 100 employees.

### Public Health Emergency Surveillance System

Emergency department (ED) complaints of ILI by District. Each district is shaded by the current rate compared to its moving average.

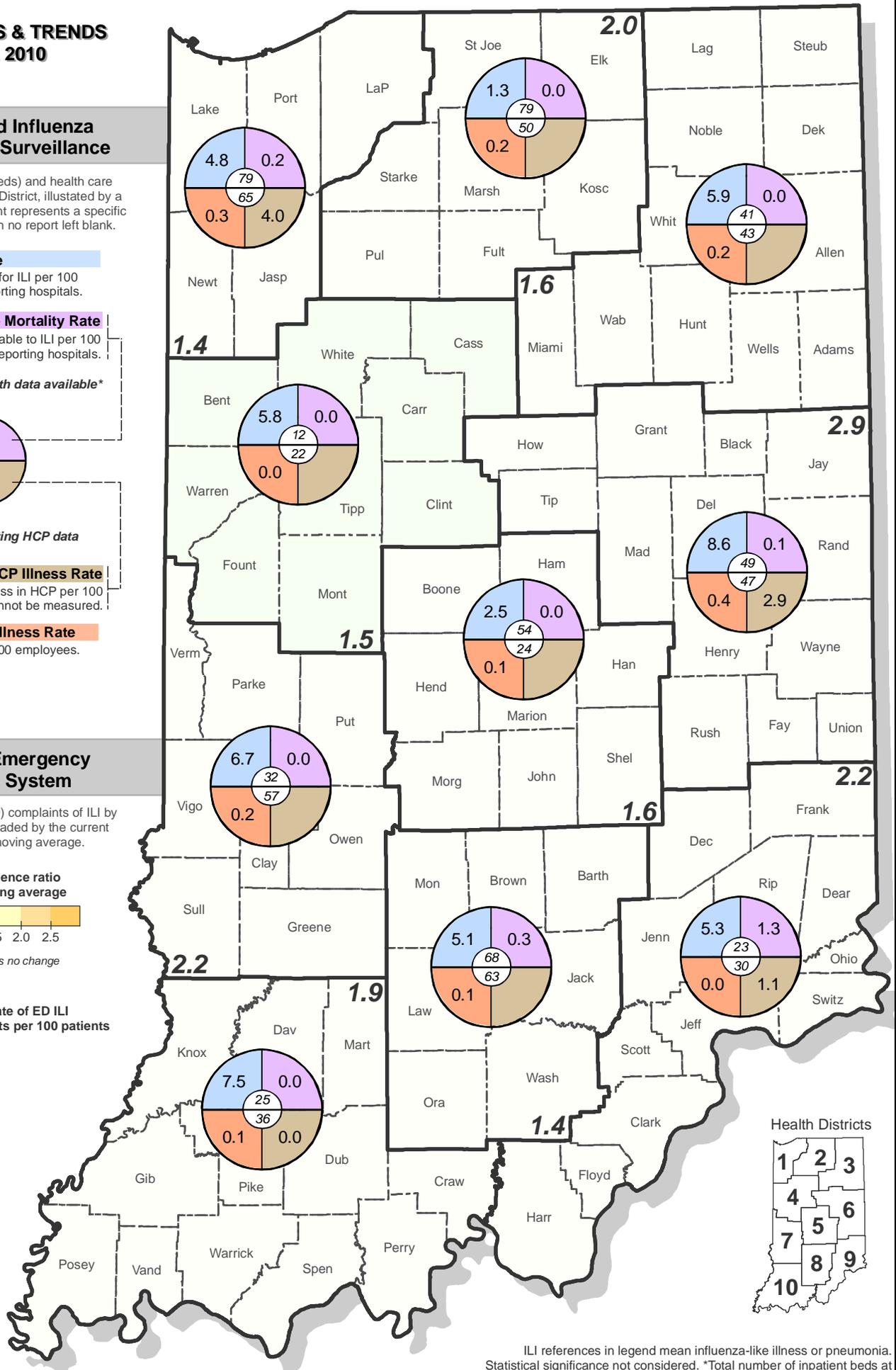
Change in prevalence ratio from 3-week moving average



A value of 1 indicates no change



District rate of ED ILI complaints per 100 patients



ILI references in legend mean influenza-like illness or pneumonia. Statistical significance not considered. \*Total number of inpatient beds at reporting hospitals divided by the number of inpatient beds available, by District. Map compiled by the Epidemiology Resource Center, Indiana State Department of Health.