

**Rates\* and Case Fatality Percents of Invasive *Haemophilus influenzae*  
by Age Group:  
Denver Metropolitan Area^ and Colorado, 2008**

<b>AGE GROUP (years)</b>	<b>Cases</b>				<b>Deaths</b>	
	<b>EIP^ No.</b>	<b>(EIP Rate*)</b>	<b>State No.</b>	<b>(State rate*)</b>	<b>State No.</b>	<b>(% of cases)</b>
<=1	3	(4.1)	6	(4.2)	0	
2-4	3	(2.7)	3	(1.4)	0	
5-14	1	(0.3)	3	(0.4)	0	
15-24	2	(0.6)	4	(0.5)	0	
25-34	2	(0.6)	4	(0.6)	0	
35-49	2	(0.3)	3	(0.3)	1	(33.3)
50-64	10	(2.3)	15	(1.6)	1	(6.7)
65+	13	(6.0)	21	(4.3)	5	(23.8)
<b>Total</b>	<b>36</b>	<b>(1.5)</b>	<b>59</b>	<b>(1.2)</b>	<b>7</b>	<b>(11.9)</b>

*\*Rates are per 100,000 population and based upon 2008-based population estimates, State Demography Office - DOLA*

*^EIP area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties.*

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**Rates\* of Invasive *Haemophilus influenzae* by County:  
Denver Metropolitan Area^, 2008**

<b>COUNTY OF RESIDENCE</b>	<b>Cases</b>	
	<b>No.</b>	<b>(Rate*)</b>
ADAMS	4	(0.9)
ARAPAHOE	9	(1.6)
DENVER	9	(1.5)
DOUGLAS	5	(1.8)
JEFFERSON	9	(1.7)

*\*Rates are per 100,000 population and based upon 2008-based population estimates, State Demography Office - DOLA  
^EIP area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties*

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## Sterile Sites from which *Haemophilus influenzae* was Isolated: Denver Metropolitan Area<sup>^</sup>, 2008

<i>SITE OF ISOLATION</i>	No.*	(% of cases)
Blood	32	(88.9)
CSF	3	(8.3)
Pleural fluid	3	(8.3)
Joint fluid	1	(2.8)
Placenta	1	(2.8)

*\*H.flu was isolated from one site in 30 cases and multiple sites in 6 case (Total cases=36)*

*H.flu was isolated only from blood in 26 cases (72.2%)*

*<sup>^</sup>Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties*

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**Clinical Syndromes Associated with Invasive *Haemophilus influenzae* Disease:  
Denver Metropolitan Area<sup>^</sup>, 2008**

<b><i>CLINICAL SYNDROME</i></b>	<b>No.*</b>	<b>(% of cases)</b>
Bacteremia only	15	(41.7)
Bacteremic pneumonia	14	(38.9)
Meningitis	3	(8.3)
Cellulitis	1	(2.8)
Abscess	1	(2.8)
Pericarditis	1	(2.8)
Septic arthritis	1	(2.8)

***\*Some cases may have more than one syndrome (Total cases=36)***

***<sup>^</sup>Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties***

**Underlying Conditions Associated with Invasive *Haemophilus influenzae***  
**:**  
**Denver Metropolitan Area<sup>^</sup>, 2008**

<b>UNDERLYING CONDITION</b>	<b>No.*</b>	<b>(% of cases)</b>
Diabetes	8	(22.2)
Current Smoker	6	(16.7)
Emphysema/COPD	6	(16.7)
Alcohol Abuse	4	(11.1)
Cerebral Vascular Accident/Stroke	4	(11.1)
Immunosuppressive Therapy	3	(8.3)
Asthma	3	(8.3)
Renal Failure/Dialysis	3	(8.3)
Obesity	3	(8.3)
Atherosclerotic Cardiovascular Disease	2	(5.6)
Heart Failure/CHF	2	(5.6)
Organ transplant	2	(5.6)
Cirrhosis/Liver Failure	1	(2.8)

***\*13 cases had more than one underlying condition***

***10 (27.8%) had no underlying conditions; 0 cases were unknown (Total cases=36)***

***<sup>^</sup>Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties***

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## **Invasive *Haemophilus influenzae* Serotypes: Denver Metropolitan Area<sup>^</sup>, 2008**

<b>Serotype</b>	<b>No.*</b>	<b>(% of isolates)</b>
Not Typeable	23	(63.8)
f	10	(27.7)
a	2	(5.5)
b	1	(2.7)
Total	36	(100.0)

*\*Based upon testing of 36 isolates (Total cases=36)*

*Testing performed by the CDPHE Laboratory*

*<sup>^</sup>Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties*