

**Cases, Rates* and Case Fatality of Invasive *Haemophilus influenzae* by
Age Group:
Denver Metropolitan Area^ and Colorado, 2009**

AGE GROUP (years)	Cases (Rates)				Deaths	
	EIP^ No.	(EIP Rate*)	State No.	(State rate*)	State No.	(% of cases)
<1	3	(4.1)	9	(6.3)	0	
1	0	0	0	0	0	
2-4	1	(0.9)	1	(0.5)	0	
5-17	1	(0.2)	1	(0.1)	0	
18-34	2	(0.3)	9	(0.7)	0	
35-49	3	(0.5)	8	(0.7)	0	
50-64	8	(1.7)	14	(1.4)	3	(21.4)
65+	15	(6.4)	30	(5.8)	5	(16.7)
Total	33	(1.3)	72	(1.4)	8	(11.1)

**Rates are per 100,000 population and based upon 2009-based population estimates, State Demography Office - DOLA*

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

**Rates* of Invasive *Haemophilus influenzae* by County:
Denver Metropolitan Area^, 2009**

<i>COUNTY OF RESIDENCE</i>	<i>Cases</i>	
	<i>No.</i>	<i>(Rate*)</i>
ADAMS	4	(0.9)
ARAPAHOE	8	(1.4)
DENVER	10	(1.6)
DOUGLAS	4	(1.4)
JEFFERSON	7	(1.3)

**Rates are per 100,000 population and based upon 2009-based population estimates, State Demography Office - DOLA
^EIP area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties*

Sterile Sites from which *Haemophilus influenzae* was Isolated: Denver Metropolitan Area[^], 2009

<i>SITE OF ISOLATION</i>	No.*	(% of cases)
Blood	31	(93.9)
CSF	2	(6.1)
Other sterile site	1	(3.0)

**H.flu was isolated from one site in 31 cases and multiple sites in 2 case (Total cases=33)*

H.flu was isolated only from blood in 30 cases (90.9%)

[^]Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties

Clinical Syndromes Associated with Invasive *Haemophilus influenzae* : Denver Metropolitan Area[^], 2009

<i>CLINICAL SYNDROME</i>	No.*	(% of cases)
Bacteremic pneumonia	19	(57.6)
Bacteremia only	9	(27.3)
Other	3	(9.1)
Meningitis	2	(6.1)
Cellulitis	1	(3.0)
Empyema	1	(3.0)

**Some cases may have more than one syndrome (Total cases=33)*

[^]Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties

**Underlying Conditions Associated with Invasive *Haemophilus influenzae*
:
Denver Metropolitan Area[^], 2009**

UNDERLYING CONDITION	No.*	(% of cases)
Emphysema/COPD	8	(24.2)
Diabetes	7	(21.2)
Renal Failure/Dialysis	6	(18.2)
Asthma	3	(9.1)
Atherosclerotic Cardiovascular Disease	3	(9.1)
Current Smoker	2	(6.1)
Immunosuppressive Therapy	2	(6.1)
Heart Failure/CHF	2	(6.1)
HIV	1	(3.0)
Cirrhosis/Liver Failure	1	(3.0)
Obesity	1	(3.0)

****14 cases had more than one underlying condition***

8 (24.2%) had no underlying conditions; 0 cases were unknown (Total cases=33)

[^]Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties

Invasive *Haemophilus influenzae* Serotypes: Colorado, 2009

Serotype	No.*	(% of isolates)
Not Typeable	47	(68.1)
f	12	(17.3)
e	4	(5.7)
b	3	(4.3)
a	2	(2.8)
d	1	(1.4)
Total	69	(100.0)

****Based upon testing of 69 isolates (Total cases=72)
Testing performed by the CDPHE Laboratory***