Rates and Case Fatality Percents of Invasive Pneumococcal Disease by Age Group:

Denver Metropolitan Area^, 2005

AGE GROUP (years)	Cases		Deaths	
	No.	(Rate*)	No.	(% of cases)
<=1	26	(35.8)	0	
2-4	10	(9.2)	0	
5-14	5	(1.5)	0	
15-24	11	(3.4)	0	
25-34	13	(3.9)	0	
35-49	77	(13.8)	2	(2.5)
50-64	71	(18.1)	14	(19.7)
65+	72	(34.6)	22	(30.5)
Total	285	(12.4)	38	(13.3)

^{*}Rates are computed using 2005-based population estimates, State Demography Office - DOLA ^Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties

Rates of Invasive Pneumococcal Disease by County: Denver Metropolitan Area^, 2005

COUNTY OF RESIDENCE	Cases		
	No.	(Rate*)	
ADAMS	60	(14.7)	
ARAPAHOE	53	(9.9)	
DENVER	111	(19.4)	
DOUGLAS	9	(3.5)	
JEFFERSON	52	(9.7)	

^{*}Rates are computed using 2005-based population estimates, State Demography Office - DOLA ^Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties

Sterile Sites from which Invasive Streptococcus pneumoniae was Isolated:

Denver Metropolitan Area^, 2005

SITE OF ISOLATION	No.*	(% of cases)
Blood	268	(94.0)
CSF	14	(4.9)
Peritoneal fluid	6	(2.1)
Pleural fluid	5	(1.7)
Joint	2	(0.7)

*SP was isolated from one site in 273 cases and multiple sites in 12 cases (Total cases=285)

SP was isolated only from blood in 256 cases (89.8%)

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

Syndromes Associated with Invasive Pneumococcal Disease: Denver Metropolitan Area^, 2005

CLINICAL SYNDROME	No.*	(% of cases)
Bacteremic pneumonia	210	(73.6)
Bacteremia only	46	(16.1)
Meningitis	18	(6.3)
Peritonitis	8	(2.8)
Empyema	4	(1.4)
Otitis media	3	(1.0)
Septic arthritis	3	(1.0)
Abscess	1	(0.3)
Osteomyelitis	1	(0.3)
Endocarditis	1	(0.3)

*Some cases had more than one syndrome (Total cases=285)
^Emerging Infections Program area: Adams, Arapahoe, Denver, Douglas, and Jefferson counties

Underlying Conditions Associated with Invasive Pneumococcal Disease: Denver Metropolitan Area^, 2005

UNDERLYING CONDITION	No.*	(% of cases)
Current Smoker	110	(38.5)
Alcohol Abuse	55	(19.2)
Emphysema/COPD	44	(15.4)
Diabetes	32	(11.2)
Asthma	25	(8.7)
HIV	18	(6.3)
Immunosuppressive Therapy	17	(5.9)
Atherosclerotic Cardiovascular Disease	15	(5.2)
Cirrhosis/Liver Failure	12	(4.2)
Heart Failure/CHF	12	(4.2)
AIDS	11	(3.8)
Intravenous Drug Use	11	(3.8)
Cerebral Vascular Accident/Stroke	8	(2.8)
Renal Failure/Dialysis	7	(2.4)
Leukemia	5	(1.7)
Multiple Myeloma	4	(1.4)
Splenectomy/Asplenia	4	(1.4)
Obesity	3	(1.0)
Systemic Lupus Erythematosus	1	(0.3)
Nephrotic Syndrome	1	(0.3)

Invasive Pneumococcal Disease Serotypes: Denver Metropolitan Area^, 2005

Serotype	No.*	(% of isolates)
19A	37	(14.6)
003	34	(13.4)
22F	21	(8.3)
12F	16	(6.3)
008	14	(5.5)
004	11	(4.3)
07F	11	(4.3)
09V	10	(3.9)
11A	7	(2.7)
09N	7	(2.7)
18C	7	(2.7)
19F	6	(2.3)
15C	6	(2.3)
23F	6	(2.3)
23A	5	(1.9)
33F	5	(1.9)
031	5	(1.9)
15B	5	(1.9)
06B	4	(1.5)
06A	4	(1.5)
10A	4	(1.5)
35B	4	(1.5)
15A	3	(1.1)
020	3	(1.1)

014	3	(1.1)
038	3	(1.1)
17F	2	(0.7)
07C	2	(0.7)
16F	2	(0.7)
35F	2	(0.7)
013	1	(0.3)
NT	1	(0.3)
23B	1	(0.3)
034	1	(0.3)
Total	253	(100.0)

*Based upon reference lab testing of 253 isolates (Total cases=285)

Testing performed by the Centers for Disease Control and Prevention: Atlanta, GA

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

Antibiotic Susceptibility of Invasive Pneumococcal Disease Isolates Denver Metropolitan Area^, 2005

Streptococcus pneumoniae	No.	Antibiotic Susceptibility*		
		S	1	R
		%	%	%
ANTIBIOTIC				
Amoxicillin	254	99.2	0.0	8.0
Cefotaxime	254	98.0	1.2	8.0
Ceftriaxone	254	98.8	0.4	8.0
Cefuroxime	254	90.6	0.0	9.4
Chloramphenicol	254	97.2	0.0	2.8
Clindamycin	254	96.1	0.0	3.9
Erythromycin	254	87.4	0.0	12.6
Levofloxacin	254	98.8	0.0	1.2
Linezolid	254	100.0	0.0	0.0
Meropenem	254	91.7	6.7	1.6
Penicillin	254	79.5	12.6	7.9
Rifampin	254	99.6	0.0	0.4
Synercid	254	100.0	0.0	0.0
TMP/Sulfa	254	81.5	6.7	11.8
Telithromycin	254	100.0	0.0	0.0
Tetracycline	254	93.7	0.0	6.3
Vancomycin	254	100.0	0.0	0.0

S=Susceptible; I=Intermediate; R=Resistant

*Based upon reference lab testing of 254 isolates (Total cases=285)

Testing performed by the University of Texas Health Science Center at San Antonio

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