

**MINNESOTA DEPARTMENT OF HEALTH
EMERGING INFECTIONS PROGRAM**

**REPORTED CASES OF INVASIVE BACTERIAL DISEASE
JANUARY 1, 2004 - DEC 31, 2005**

<u>PATHOGEN</u>	<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>			
	<u>No.</u>	<u>Rate per 100,000*</u>	<u>No.</u>	<u>Rate per 100,000*</u>		
<i>Neisseria meningitidis</i>		24	0.47		16	0.32
Serogroup B	6			6		
Serogroup C	12			5		
Serogroup Y	4			5		
Serogroup W135	1			0		
Serogroup X	0			0		
Not groupable	1			0		
Reported but isolate not available	0			0		
<i>Haemophilus influenzae</i>		55	1.09		53	1.05
type a	2			2		
type b	2			1		
type c	1			0		
type d	0			0		
type e	5			1		
type f	10			13		
Non-typeable	29			30		
Reported but isolate not available	6			6		
Group A streptococcus		146	2.89		122	2.41
Group B streptococcus		341	6.74		334	6.60
<i>Streptococcus pneumoniae</i>		540	10.67		596	11.78

*Annual rate using population estimates from the U.S. Bureau of the Census 2003

Note: Active surveillance for these pathogens began April 1, 1995. Previous reports have summarized data for 4/1/95-12/31/03. This current report can also be located via the MDH Web Page at: www.health.state.mn.us

MDH Emerging Infections Program (651) 201-5414

TABLE 2

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
NEISSERIA MENINGITIDIS, JANUARY 1, 2004 - DECEMBER 31, 2005

	<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>		<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>		
RESIDENCE				OUTCOME					
<u>Residence</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Twin Cities Metro Area	17	(71)	11	(69)	Yes	21	(88)	15	(94)
Greater Minnesota	<u>7</u>	<u>(29)</u>	<u>5</u>	<u>(31)</u>	No	<u>3</u>	<u>(13)</u>	<u>1</u>	<u>(6)</u>
TOTAL	24	(100)	16	(100)	TOTAL	24	(100)	16	(100)
AGE				SITE OF ISOLATE CULTURE					
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Site</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	3	(13)	2	(13)	Blood	15	(63)	11	(69)
1-4	3	(13)	4	(25)	CSF	9	(38)	5	(31)
5-9	0	(0)	1	(6)	Other	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
10-19	5	(21)	1	(6)	TOTAL	24	(100)	16	(100)
20-29	3	(13)	2	(13)					
30-39	3	(13)	2	(13)					
40-49	0	(0)	1	(6)					
50-59	3	(13)	0	(0)					
<u>60+</u>	<u>4</u>	<u>(17)</u>	<u>3</u>	<u>(19)</u>					
TOTAL	24	(100)	16	(100)					
GENDER				TYPE OF INFECTION					
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Male	15	(63)	5	(31)	Bacteremia	10	(42)	10	(63)
Female	<u>9</u>	<u>(38)</u>	<u>11</u>	<u>(69)</u>	Meningitis	12	(50)	6	(38)
TOTAL	24	(100)	16	(100)	Pneumonia	2	(8)	0	(0)
					Septic arthritis	0	(0)	0	(0)
					Pericarditis	0	(0)	0	(0)
					Otitis	0	(0)	0	(0)
					Other	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
					TOTAL	24	(100)	16	(100)
RACE				SEROGROUP					
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Serogroup</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
White Only	11	(46)	10	(63)	B	6	(25)	6	(38)
Black Only	1	(4)	0	(0)	C	12	(50)	5	(31)
American Indian/ Alaskan Native Only	0	(0)	0	(0)	Y	4	(17)	5	(31)
Asian/Pacific Isl. Only	1	(4)	0	(0)	W135	1	(4)	0	(0)
More than 1 Race	0	(0)	0	(0)	X	0	(0)	0	(0)
Other Only	2	(8)	0	(0)	Not groupable	1	(4)	0	(0)
<u>Unknown</u>	<u>9</u>	<u>(38)</u>	<u>6</u>	<u>(38)</u>	<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	24	(100)	16	(100)	TOTAL	24	(100)	16	(100)

Cases of *Neisseria meningitidis* Invasive Disease by Culture Date, Minnesota January 1, 2004 – December 31, 2005

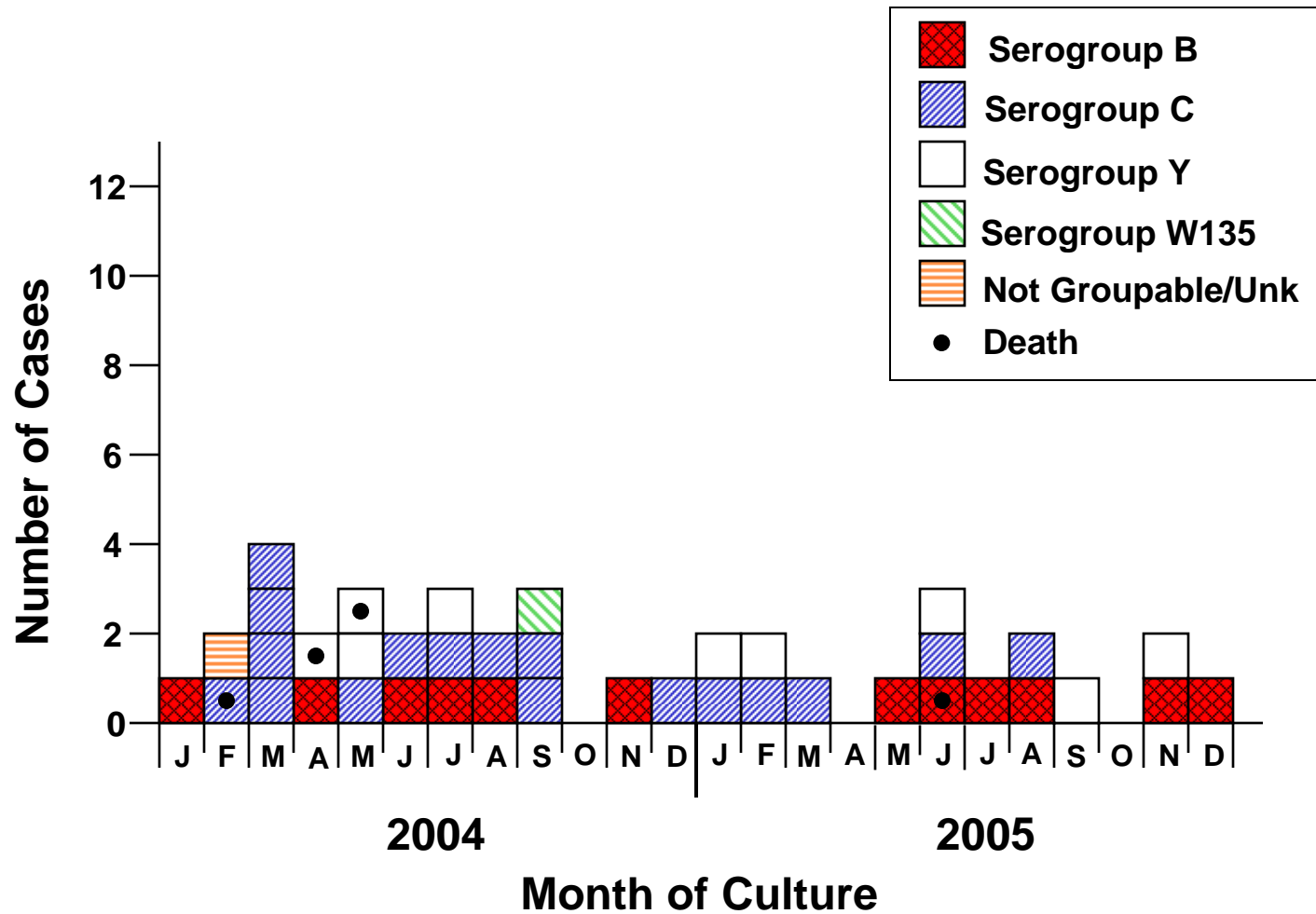


TABLE 3

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2004 - DECEMBER 31, 2005

	<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>		<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>		
RESIDENCE					OUTCOME				
<u>Residence</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Twin Cities Metro Area	23	(42)	22	(42)	Yes	46	(84)	48	(91)
<u>Greater Minnesota</u>	<u>32</u>	<u>(58)</u>	<u>31</u>	<u>(58)</u>	No	<u>9</u>	<u>(16)</u>	<u>5</u>	<u>(9)</u>
TOTAL	55	(100)	53	(100)	TOTAL	55	(100)	53	(100)
AGE					SITE OF ISOLATE CULTURE				
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Site</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	5	(9)	6	(11)	Blood	49	(89)	49	(92)
1-4	3	(5)	0	(0)	CSF	4	(7)	2	(4)
5-9	1	(2)	2	(4)	Peritoneal	2	(4)	1	(2)
10-19	1	(2)	1	(2)	Joint	0	(0)	0	(0)
20-29	2	(4)	3	(6)	Pleural fluid	0	(0)	0	(0)
30-39	1	(2)	3	(6)	<u>Other</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(2)</u>
40-49	0	(0)	6	(11)	TOTAL	55	(100)	53	(100)
50-59	12	(22)	5	(9)					
60-69	6	(11)	10	(19)					
<u>70+</u>	<u>24</u>	<u>(44)</u>	<u>17</u>	<u>(32)</u>					
TOTAL	55	(100)	53	(100)					
GENDER					TYPE OF INFECTION				
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Male	19	(35)	19	(36)	Bacteremia	16	(29)	20	(38)
<u>Female</u>	<u>36</u>	<u>(65)</u>	<u>34</u>	<u>(64)</u>	Pneumonia	25	(45)	20	(38)
TOTAL	55	(100)	53	(100)	Meningitis	8	(15)	2	(4)
RACE					Cellulitis	1	(2)	1	(2)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritonitis	2	(4)	1	(2)
White Only	35	(64)	26	(49)	Epiglottitis	0	(0)	1	(2)
Black Only	4	(7)	2	(4)	Chorioamnionitis	0	(0)	0	(0)
American Indian/ Alaskan Native Only	1	(2)	1	(2)	Arthritis	0	(0)	3	(6)
Asian/Pacific Isl. Only	0	(0)	0	(0)	Sinusitis	0	(0)	2	(4)
More than 1 Race	0	(0)	3	(6)	<u>Other</u>	<u>3</u>	<u>(5)</u>	<u>3</u>	<u>(6)</u>
Other Only	0	(0)	0	(0)	TOTAL	55	(100)	53	(100)
<u>Unknown</u>	<u>15</u>	<u>(27)</u>	<u>21</u>	<u>(40)</u>					
TOTAL	55	(100)	53	(100)					

TABLE 3 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2004 - DECEMBER 31, 2005

1/1/2004-
12/31/2004 1/1/2005-
12/31/2005

ISOLATE SEROTYPE

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
a	2	(4)	2	(4)
b	2	(4)	1	(2)
c	1	(2)	0	(0)
d	0	(0)	0	(0)
e	5	(10)	1	(2)
f	10	(20)	13	(28)
<u>Non-typeable</u>	<u>29</u>	<u>(59)</u>	<u>30</u>	<u>(64)</u>
TOTAL	49	(100)	47	(100)
	<u>No.</u>	<u>(%)*</u>	<u>No.</u>	<u>(%)*</u>
Not Tested	6	(11)	6	(11)

SEROTYPE B (Hib) CASES BY AGE

<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	1	(50)	0	(0)
1-4	0	(0)	0	(0)
5-9	0	(0)	0	(0)
10-14	0	(0)	0	(0)
15-19	0	(0)	0	(0)
20-39	0	(0)	1	(100)
40-59	1	(50)	0	(0)
<u>60+</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	2	(100)	1	(100)

*of total cases

Cases of *Haemophilus influenzae* Invasive Disease by Culture Date, Minnesota January 1, 2004 - December 31, 2005

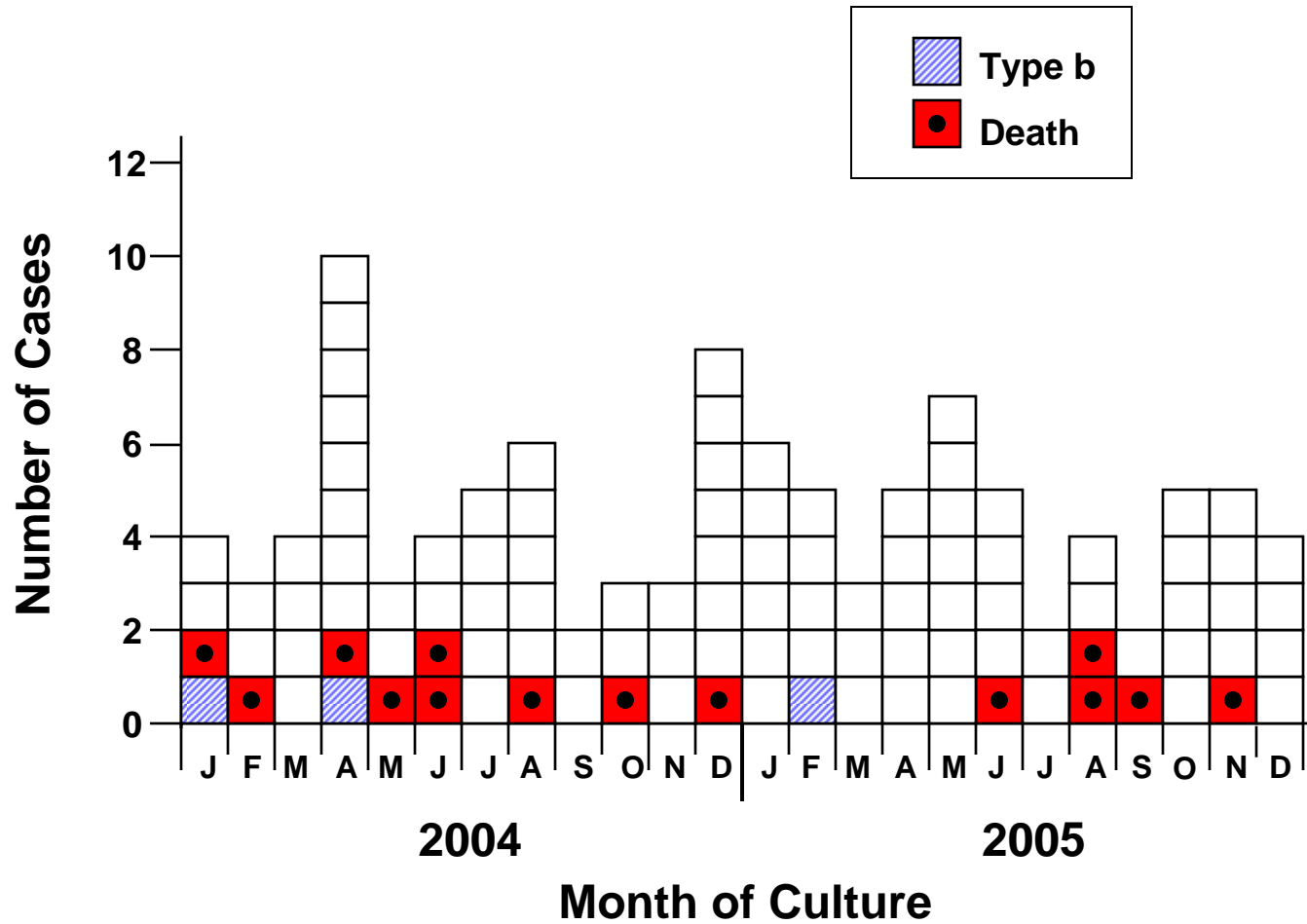


TABLE 4

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2004 - DECEMBER 31, 2005

	<u>1/1/04-</u> <u>12/31/2004</u>		<u>1/1/05-</u> <u>12/31/2005</u>		<u>1/1/04-</u> <u>12/31/2004</u>		<u>1/1/05-</u> <u>12/31/2005</u>		
RESIDENCE					SITE OF ISOLATE CULTURE				
<u>Residence</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Site</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Twin Cities Metro Area	84	(58)	62	(51)	Blood only	84	(58)	73	(60)
<u>Greater Minnesota</u>	<u>62</u>	<u>(42)</u>	<u>60</u>	<u>(49)</u>	CSF only	0	(0)	0	(0)
TOTAL	146	(100)	122	(100)	Blood and other	15	(10)	11	(9)
AGE					Joint	16	(11)	15	(12)
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritoneal	3	(2)	0	(0)
<1	4	(3)	4	(3)	Pericardial	0	(0)	0	(0)
1-4	10	(7)	7	(6)	Pleural	4	(3)	6	(5)
5-9	7	(5)	7	(6)	Middle ear	0	(0)	0	(0)
10-19	7	(5)	3	(2)	Bone	1	(1)	4	(3)
20-29	11	(8)	8	(7)	Muscle	6	(4)	2	(2)
30-39	13	(9)	16	(13)	Internal Body Site	1	(1)	1	(1)
40-49	13	(9)	13	(11)	<u>Other sterile site</u>	<u>16</u>	<u>(11)</u>	<u>10</u>	<u>(8)</u>
50-59	20	(14)	14	(11)	TOTAL	146	(100)	122	(100)
60-69	17	(12)	18	(15)	TYPE OF INFECTION				
<u>70+</u>	<u>44</u>	<u>(30)</u>	<u>32</u>	<u>(26)</u>	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
TOTAL	146	(100)	122	(100)	Bacteremia only	47	(32)	36	(30)
GENDER					Meningitis	1	(1)	0	(0)
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Pneumonia only	12	(8)	12	(10)
Male	74	(51)	64	(52)	Cellulitis only	23	(16)	33	(27)
<u>Female</u>	<u>72</u>	<u>(49)</u>	<u>58</u>	<u>(48)</u>	Necrotizing fasciitis				
TOTAL	146	(100)	122	(100)	(NF) only	10	(7)	4	(3)
RACE					Peritonitis	2	(1)	1	(1)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Arthritis only	10	(7)	5	(4)
White	95	(65)	85	(70)	Osteomyelitis	2	(1)	2	(2)
Black	9	(6)	5	(4)	Endometritis	1	(1)	0	(0)
American Indian/ Alaskan Native	4	(3)	2	(2)	Abscess	0	(0)	4	(3)
Asian/Pacific Islander	3	(2)	1	(1)	Empyema	0	(0)	1	(1)
More than One Race	4	(3)	1	(1)	Peurperal Sepsis	2	(1)	0	(0)
<u>Unknown</u>	<u>31</u>	<u>(21)</u>	<u>28</u>	<u>(23)</u>	STSS	2	(1)	0	(0)
TOTAL	146	100	122	100	Pneumonia + other	2	(1)	2	(2)
					NF + other	6	(4)	4	(3)
					Cellulitis + other	7	(5)	7	(6)
					Abscess + other	0	(0)	1	(1)
					<u>Other + Epiglot (1)</u>	<u>19</u>	<u>(13)</u>	<u>10</u>	<u>(8)</u>
					TOTAL	146	(100)	122	(100)

TABLE 4 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2004 - DECEMBER 31, 2005

	<u>1/1/04-</u> <u>12/31/2004</u>		<u>1/1/05-</u> <u>12/31/2005</u>	
	OUTCOME			
<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Yes	128	(88)	113	(93)
No	18	(12)	9	(7)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	146	(100)	122	(100)

TYPE OF INFECTION
RESULTING IN DEATH

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Bacteremia	8	(44)	5	(56)
Meningitis	0	(0)	0	(0)
Necrotizing fasciitis	2	(11)	0	(0)
Pneumonia	2	(11)	1	(11)
Abscess	0	(0)	0	(0)
STSS	1	(6)	0	(0)
Cellulitis	2	(11)	3	(33)
Peritonitis + STSS	0	(0)	0	(0)
Peurperal Sepsis	1	(6)	0	(0)
Septic Arthritis	0	(0)	0	(0)
Pneumonia + Cellulitis	1	(6)	0	(0)
NF + Cellulitis	1	(6)	0	(0)
Pneumonia + STSS	0	(0)	0	(0)
NF + STSS	0	(0)	0	(0)
Cellulitis + STSS	0	(0)	0	(0)
Strep Pharyngitis/Inf	0	(0)	0	(0)
<u>Mediastinitis</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	18	(100)	9	(100)

Cases of Invasive Group A Streptococcal Disease by Date of Culture, Minnesota January 1, 2004 – December 31, 2005

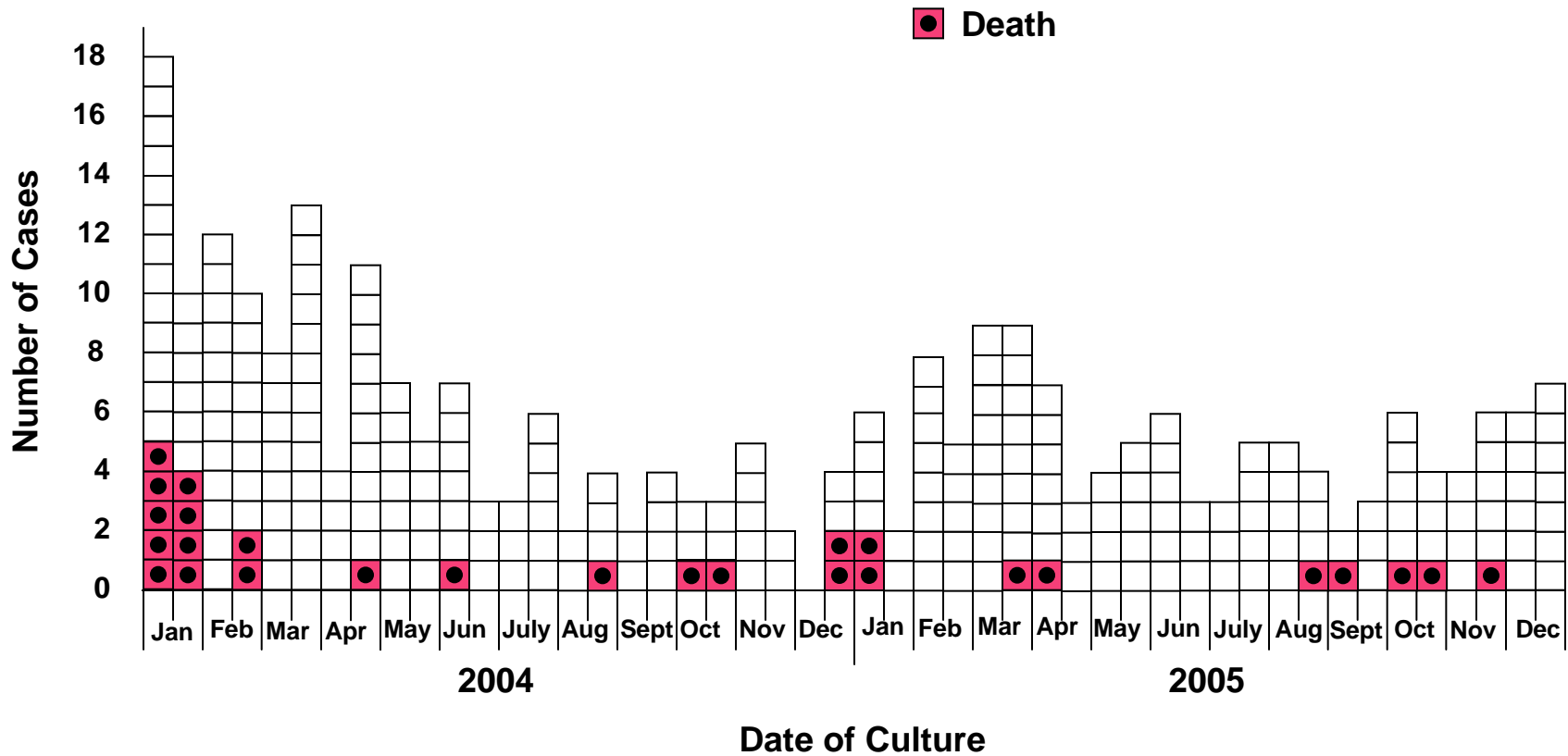


TABLE 5

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2004 - DECEMBER 31, 2005

		<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>				<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>	
RESIDENCE						OUTCOME					
<u>Residence</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Twin Cities Metro Area	189	(55)	190	(57)	Yes	321	(94)	312	(93)		
<u>Greater Minnesota</u>	<u>152</u>	<u>(45)</u>	<u>144</u>	<u>(43)</u>	No	20	(6)	22	(7)		
TOTAL	341	(100)	334	(100)	<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>		
					TOTAL	341	(100)	334	(100)		
AGE						SITE OF ISOLATE CULTURE					
<u>Age</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Site</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<7 days	26	(8)	15	(4)	Blood only	246	(72)	249	(75)		
7-90 days	18	(5)	17	(5)	CSF only	10	(3)	9	(3)		
91 days-11 mos.	1	(0)	0	(0)	Blood and CSF	0	(0)	0	(0)		
1-9	0	(0)	1	(0)	Pleural	3	(1)	2	(1)		
10-19	4	(1)	7	(2)	Joint	27	(8)	35	(10)		
20-29	21	(6)	14	(4)	Placenta	9	(3)	5	(1)		
30-39	23	(7)	18	(5)	Amniotic fluid	1	(0)	3	(1)		
40-49	37	(11)	31	(9)	Surgical Specimen	0	(0)	0	(0)		
50-59	51	(15)	68	(20)	Internal body site	5	(1)	0	(0)		
60-69	42	(12)	64	(19)	Peritoneal	12	(4)	4	(1)		
<u>70+</u>	<u>118</u>	<u>(35)</u>	<u>99</u>	<u>(30)</u>	Bone	26	(8)	27	(8)		
TOTAL	341	(100)	334	(100)	<u>Other</u>	<u>2</u>	<u>(1)</u>	<u>0</u>	<u>(0)</u>		
					TOTAL	341	(100)	334	(100)		
GENDER						TYPE OF INFECTION					
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Male	173	(51)	180	(54)	Bacteremia	158	(46)	142	(43)		
<u>Female</u>	<u>168</u>	<u>(49)</u>	<u>154</u>	<u>(46)</u>	Meningitis	12	(4)	13	(4)		
TOTAL	341	(100)	334	(100)	Pneumonia	30	(9)	24	(7)		
					Cellulitis	40	(12)	56	(17)		
					Arthritis	24	(7)	30	(9)		
					Osteomyelitis	26	(8)	22	(7)		
					Abscess	11	(3)	11	(3)		
					Necrotizing fasciitis	0	(0)	1	(0)		
					Peritonitis	8	(2)	5	(1)		
					Septic abortion or stillbirth	11	(3)	9	(3)		
					<u>Other</u>	<u>21</u>	<u>(6)</u>	<u>21</u>	<u>(6)</u>		
					TOTAL	341	(100)	334	(100)		
RACE											
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>							
White	221	(65)	211	(63)							
Black	18	(5)	21	(6)							
Amer Indian/Alas Native	5	(1)	2	(1)							
Asian/Pacific Islander	8	(2)	5	(1)							
More than 1 race	3	(1)	4	(1)							
<u>Other/Unknown</u>	<u>86</u>	<u>(25)</u>	<u>91</u>	<u>(27)</u>							
TOTAL	341	(100)	334	(100)							

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2004 - DECEMBER 31, 2005

	EARLY ONSET CASES*				LATE ONSET CASES*			
	<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>		<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>	
RESIDENCE								
<u>Residence</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Twin Cities Metro Area	17	(65)	11	(73)	15	(83)	12	(71)
Greater Minnesota	9	(35)	4	(27)	3	(17)	5	(29)
TOTAL	26	(100)	15	(100)	18	(100)	17	(100)
GENDER								
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Male	10	(38)	11	(73)	10	(56)	8	(47)
Female	16	(62)	4	(27)	8	(44)	9	(53)
TOTAL	26	(100)	15	(100)	18	(100)	17	(100)
RACE								
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
White	13	(50)	9	(60)	11	(61)	9	(53)
Black	5	(19)	2	(13)	3	(17)	5	(29)
American Indian/ Alaskan Native	0	(0)	0	(0)	0	(0)	0	(0)
More than 1 race	1	(4)	2	(13)	2	(11)	0	(0)
Asian/Pacific Islander	1	(4)	2	(13)	0	(0)	2	(12)
Other/Unknown	6	(23)	0	(0)	2	(11)	1	(6)
TOTAL	26	(100)	15	(100)	18	(100)	17	(100)
OUTCOME								
<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Yes	20	(77)	13	(87)	18	(100)	17	(100)
No	3	(12)	2	(13)	0	(0)	0	(0)
Unknown	3	(12)	0	(0)	0	(0)	0	(0)
TOTAL	26	(100)	15	(100)	18	(100)	17	(100)
TYPE OF INFECTION								
<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Bacteremia	20	(77)	9	(60)	9	(50)	8	(47)
Meningitis	2	(8)	4	(27)	7	(39)	7	(41)
Pneumonia	2	(8)	1	(7)	2	(11)	0	(0)
Other	2	(8)	1	(7)	0	(0)	2	(12)
TOTAL	26	(100)	15	(100)	18	(100)	17	(100)

* Early onset is defined as occurring in the first 6 days, and late onset in the 7th-89th days of life.

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2004 - DECEMBER 31, 2005

TYPE OF CASE	1/1/2004- 12/31/2004		1/1/2005- 12/31/2005	
	No.	(%)	No.	(%)
<u>Type of Case*</u>				
Maternal case with miscarriage/stillbirth	10	(3)	7	(2)
Other maternal case	3	(1)	5	(1)
Infant case - early onset	26	(8)	15	(4)
Infant case - late onset	18	(5)	17	(5)
<u>Not pregnant/postpartum/infant case</u>	<u>284</u>	<u>(83)</u>	<u>290</u>	<u>(87)</u>
TOTAL	341	(100)	334	(100)

*A maternal case is defined as invasive GBS infection during pregnancy or postpartum. An early onset infant case is defined as invasive disease occurring in the first 6 days, and late onset in the 7th - 89th days of life.

TYPE OF INFECTION REPORTED FOR MATERNAL CASES

Type	No.	(%)	No.	(%)
Bacteremia without another focus of infection	2	(15)	2	(17)
Septic abortion/ stillbirth	8	(62)	7	(58)
Meningitis	0	(0)	0	(0)
Chorioamnionitis	2	(15)	1	(8)
Abscess	0	(0)	0	(0)
Pyelonephritis	0	(0)	0	(0)
Unknown	1	(8)	0	(0)
<u>Endometritis</u>	<u>0</u>	<u>(0)</u>	<u>2</u>	<u>(17)</u>
TOTAL	13	(100)	12	(100)

OUTCOME OF FETUS FOR MATERNAL CASES

Outcome	No.	(%)	No.	(%)
Survived, no apparent clinical illness	2	(15)	4	(33)
Survived, clinical infection	1	(8)	1	(8)
Live birth, neonatal death-GBS related	0	(0)	0	(0)
Miscarriage/stillbirth-likely GBS-related	10	(77)	7	(58)
<u>Induced abortion</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	13	(100)	12	(100)

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2004 - DECEMBER 31, 2005

1/1/2004-
12/31/2004 1/1/2005-
12/31/2005

SITE OF ISOLATE CULTURE FOR MISCARRIAGES/STILLBIRTHS

<u>Site</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Maternal blood	0	(0)	0	(0)
CSF	1	(10)	0	(0)
Amniotic fluid	1	(10)	3	(43)
Placenta only	8	(80)	4	(57)
<u>Autopsy only</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	10	(100)	7	(100)

GESTATIONAL AGE OF EARLY ONSET CASES

<u>Age (weeks)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<28	8	(31)	2	(13)
28-32	0	(0)	2	(13)
33-34	1	(4)	0	(0)
35-36	1	(4)	1	(7)
37+	16	(62)	10	(67)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	26	(100)	15	(100)

BIRTH WEIGHT OF EARLY ONSET CASES

<u>Weight (grams)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1000	8	(31)	2	(13)
1000-1999	0	(0)	2	(13)
2000-2999	5	(19)	2	(13)
≥3000+	13	(50)	9	(60)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	26	(100)	15	(100)

Cases of Group B Streptococcal Disease by Date Cultured, Minnesota January 1, 2004 – December 31, 2005

- Maternal Case
- Maternal Case with miscarriage/stillbirth
- Infant Case - Early Onset
- Infant Case - Late Onset
- Non-maternal/non-infant Case
- Death

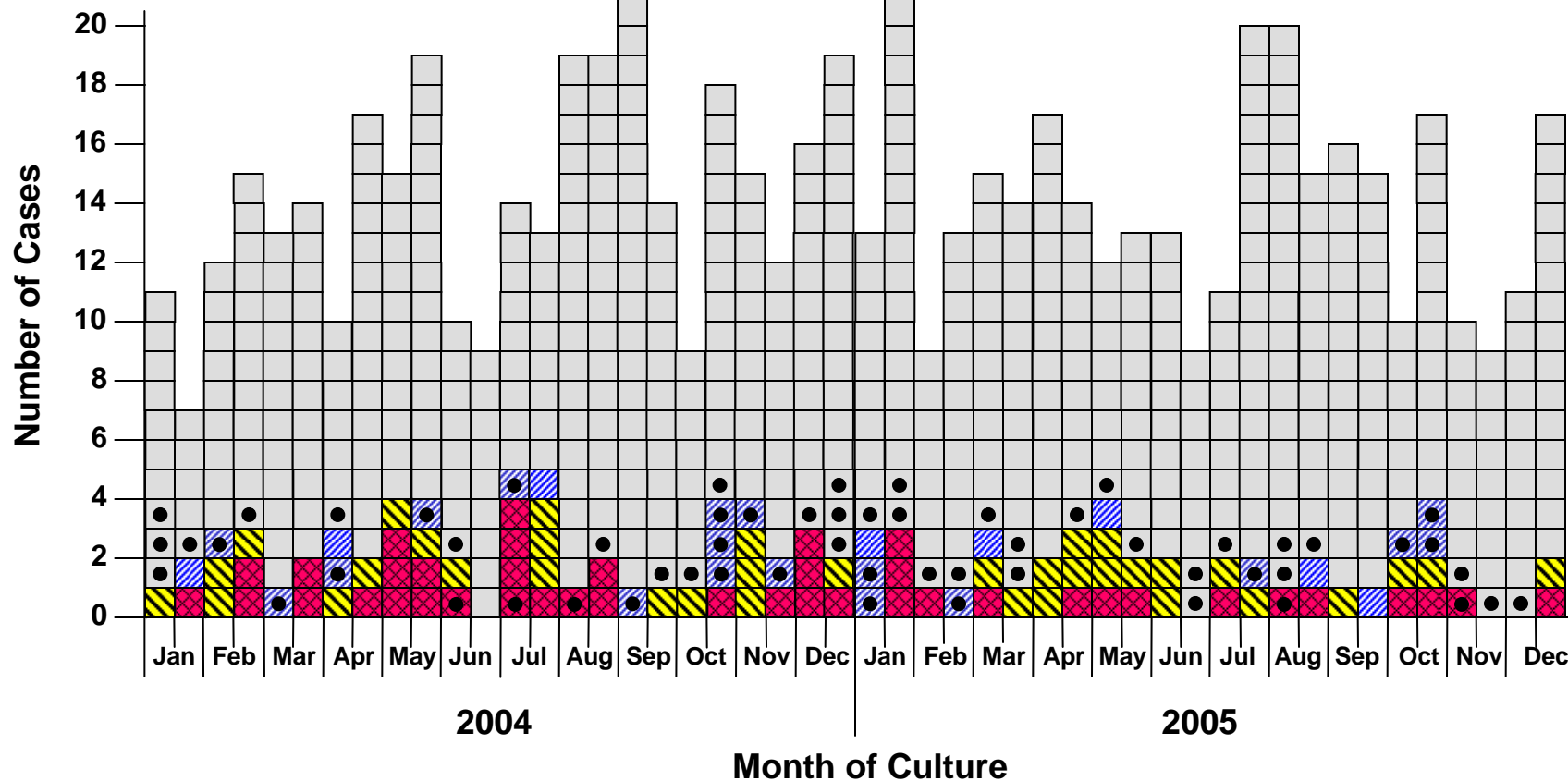


TABLE 6

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2004 - DECEMBER 31, 2005

	1/1/2004- 12/31/2004		1/1/2005- 12/31/2005		1/1/2004- 12/31/2004		1/1/2005- 12/31/2005		
RESIDENCE					OUTCOME				
<u>Residence</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Twin Cities Metro Area	286	(53)	313	(53)	Yes	491	(91)	552	(93)
Greater Minnesota	<u>254</u>	<u>(47)</u>	<u>283</u>	<u>(47)</u>	No	49	(9)	44	(7)
TOTAL	540	(100)	596	(100)	TOTAL	540	(100)	596	(100)
AGE					SITE OF ISOLATE CULTURE				
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Culture Site</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	33	(6)	28	(5)	Blood Only	499	(92)	553	(93)
1	21	(4)	24	(4)	Blood and CSF	1	(<1)	1	(<1)
2-4	27	(5)	29	(5)	CSF Only	21	(4)	19	(3)
5-17	22	(4)	25	(4)	Pericardial Fluid	0	(0)	1	(<1)
18-34	33	(6)	36	(6)	Pleural	8	(1)	9	(2)
35-49	60	(11)	76	(13)	Joint	3	(1)	6	(1)
50-64	114	(21)	134	(22)	Peritoneal	6	(1)	2	(<1)
65-79	128	(24)	111	(19)	<u>Other</u>	<u>2</u>	<u>(<1)</u>	<u>5</u>	<u>(<1)</u>
80+	<u>102</u>	<u>(19)</u>	<u>133</u>	<u>(22)</u>	TOTAL	540	(100)	596	(100)
TOTAL	540	(100)	596	(100)	TYPE OF INFECTION				
GENDER					<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Bacteremia				
Male	279	(52)	313	(53)	without focus	187	(35)	210	(35)
Female	<u>261</u>	<u>(48)</u>	<u>283</u>	<u>(47)</u>	Pneumonia	286	(53)	319	(54)
TOTAL	540	(100)	596	(100)	Meningitis	33	(6)	30	(5)
RACE					Otitis	10	(2)	5	(<1)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Cellulitis	5	(<1)	7	(1)
White Only	337	(62)	350	(59)	<u>Other</u>	<u>19</u>	<u>(4)</u>	<u>25</u>	<u>(4)</u>
Black Only	28	(5)	46	(8)	TOTAL	540	(100)	596	(100)
American Indian/ Alaskan Native Only	12	(2)	11	(<1)	PENICILLIN SUSCEPTIBILITY				
Asian/Pacific Isl. Only	6	(1)	5	(<1)	<u>Susceptibility</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
More than 1 Race	0	(<1)	2	(<1)	Susceptible (MIC ≤ 0.06)	393	(82)	411	(77)
Unknown	<u>157</u>	<u>(29)</u>	<u>182</u>	<u>(31)</u>	Intermediate	45	(9)	75	(14)
TOTAL	540	(100)	596	(100)	(MIC = 0.12 - 1.0)				
					Resistant (MIC > 2.0)	40	(8)	46	(9)
					TOTAL	478	(100)	532	(100)
						<u>No.</u>	<u>(%)*</u>	<u>No.</u>	<u>(%)*</u>
					Not Tested	62	(11)	64	(11)

* of total cases

TABLE 6 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE WITH SUSCEPTIBILITY TESTING COMPLETED,
JANUARY 1, 2004 - DECEMBER 31, 2005

PENICILLIN NON-SUSCEPTIBILITY* BY AGE

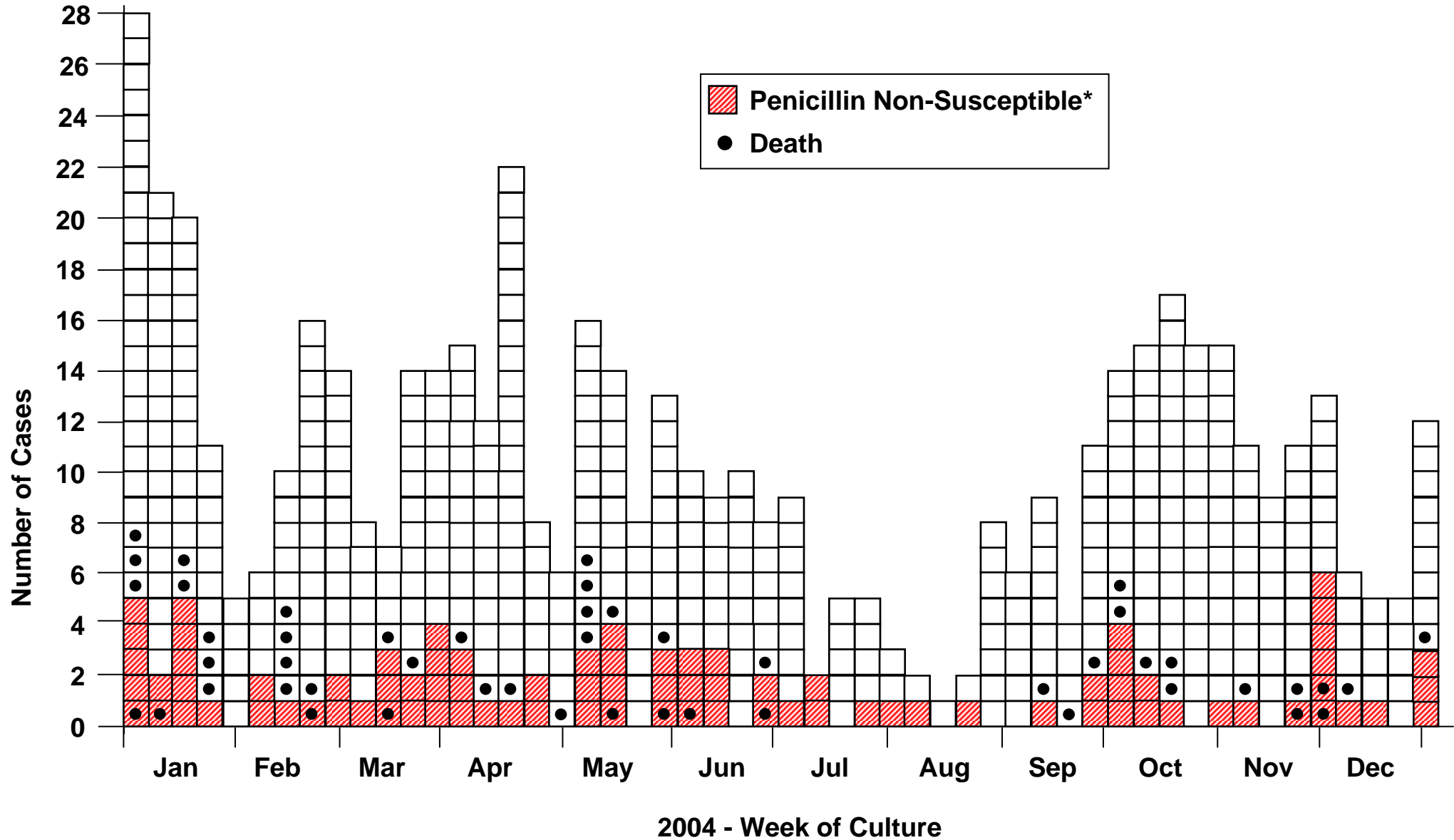
<u>Age (Years)</u>	<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 12/31/2005</u>	
	<u>Non-Susceptible Total</u>	<u>(%)</u>	<u>Non-Susceptible Total</u>	<u>(%)</u>
<1	12 / 29	(41)	4 / 26	(15)
1	3 / 21	(14)	5 / 24	(21)
2-4	4 / 24	(17)	9 / 29	(31)
5-17	5 / 18	(28)	4 / 22	(18)
18-34	6 / 32	(19)	6 / 32	(19)
35-49	7 / 53	(13)	9 / 71	(13)
50-64	10 / 102	(10)	28 / 123	(23)
65-79	21 / 112	(19)	25 / 90	(28)
80+	<u>17 / 87</u>	<u>(20)</u>	<u>31 / 115</u>	<u>(27)</u>
TOTAL	85 / 478	(18)	121 / 532	(23)

PENICILLIN NON-SUSCEPTIBILITY* BY TYPE OF INFECTION

<u>Type</u>	<u>1/1/2004- 12/31/2004</u>		<u>1/1/2005- 6/30/2005</u>	
	<u>Non-Susceptible Total</u>	<u>(%)</u>	<u>Non-Susceptible Total</u>	<u>(%)</u>
Bacteremia	33 / 165	(20)	37 / 184	(20)
Pneumonia	39 / 253	(15)	71 / 286	(25)
Meningitis	6 / 31	(19)	7 / 29	(24)
<u>Other/Unknown</u>	<u>7 / 29</u>	<u>(24)</u>	<u>6 / 33</u>	<u>(18)</u>
TOTAL	85 / 478	(18)	121 / 532	(23)

*Penicillin non-susceptible includes isolates with a MIC \geq 0.12 μ g/ml.

Cases of *S. pneumoniae* by Week of Culture, Minnesota, January 1, 2004 - December 31, 2004



* Penicillin non-susceptible includes isolates with a MIC \geq 0.12 μ g/ml

Cases of *S. pneumoniae* by Week of Culture, Minnesota, January 1, 2005 – December 31, 2005

