

**MINNESOTA DEPARTMENT OF HEALTH
EMERGING INFECTIONS PROGRAM**

**REPORTED CASES OF INVASIVE BACTERIAL DISEASE
JANUARY 1, 2003 - December 31, 2004**

<u>PATHOGEN</u>	<u>1/1/2003- 12/31/2003</u>		<u>1/1/2004- 12/31/2004</u>	
	<u>No.</u>	<u>Rate per 100,000*</u>	<u>No.</u>	<u>Rate per 100,000*</u>
<i>Neisseria meningitidis</i>	29	0.57	24	0.47
Serogroup B	8		6	
Serogroup C	16		12	
Serogroup Y	3		4	
Serogroup W135	1		1	
Serogroup X	0		0	
Not groupable	1		1	
Reported but isolate not available	0		0	
<i>Haemophilus influenzae</i>	57	1.13	55	1.09
type a	0		2	
type b	5		2	
type c	2		1	
type d	0		0	
type e	4		5	
type f	8		10	
Non-typeable	34		29	
Reported but isolate not available	4		6	
Group A streptococcus	181	3.58	146	2.89
Group B streptococcus	329	6.50	341	6.74
<i>Streptococcus pneumoniae</i>	607	12.00	540	10.67

*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 4/1/95-12/31/02. This current report can also be located via the MDH Web Page at: www.health.state.mn.us

MDH Emerging Infections Program (612) 676-5414

TABLE 2

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
NEISSERIA MENINGITIDIS, JANUARY 1, 2003 - DECEMBER 31, 2004

	<u>1/1/2003- 12/31/2003</u>		<u>1/1/2004- 12/31/2004</u>		<u>1/1/2003- 12/31/2003</u>		<u>1/1/2004- 12/31/2004</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	19	(66)	17	(71)	Yes	26	(90)	21	(88)
<u>Greater Minnesota</u>	<u>10</u>	<u>(34)</u>	<u>7</u>	<u>(29)</u>	No	<u>3</u>	<u>(10)</u>	<u>3</u>	<u>(13)</u>
TOTAL	29	(100)	24	(100)	TOTAL	29	(100)	24	(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	2	(7)	3	(13)	Blood	15	(52)	15	(63)
1-4	2	(7)	3	(13)	CSF	9	(31)	9	(38)
5-9	2	(7)	0	(0)	<u>Other</u>	<u>5</u>	<u>(17)</u>	<u>0</u>	<u>(0)</u>
10-19	9	(31)	5	(21)	TOTAL	29	(100)	24	(100)
20-29	5	(17)	3	(13)					
30-39	3	(10)	3	(13)					
40-49	6	(21)	0	(0)					
50-59	0	(0)	3	(13)					
<u>60+</u>	<u>0</u>	<u>(0)</u>	<u>4</u>	<u>(17)</u>					
TOTAL	29	(100)	24	(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	(52)	15	(63)	Bacteremia	4	(14)	10	(42)
<u>Female</u>	<u>14</u>	<u>(48)</u>	<u>9</u>	<u>(38)</u>	Meningitis	17	(59)	12	(50)
TOTAL	29	(100)	24	(100)	Pneumonia	2	(7)	2	(8)
					Septic arthritis	1	(3)	0	(0)
					Pericarditis	1	(3)	0	(0)
					Otitis	0	(0)	0	(0)
					<u>Other</u>	<u>4</u>	<u>(14)</u>	<u>0</u>	<u>(0)</u>
					TOTAL	29	(100)	24	(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	12	(41)	11	(46)	B	8	(28)	6	(25)
Black Only	3	(10)	1	(4)	C	16	(55)	12	(50)
American Indian/ Alaskan Native Only	0	(0)	0	(0)	Y	3	(10)	4	(17)
Asian/Pacific Isl. Only	0	(0)	1	(4)	W135	1	(3)	1	(4)
More than 1 Race	0	(0)	0	(0)	X	0	(0)	0	(0)
Other Only	1	(3)	2	(8)	Not groupable	1	(3)	1	(4)
<u>Unknown</u>	<u>13</u>	<u>(45)</u>	<u>9</u>	<u>(38)</u>	<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	29	(100)	24	(100)	TOTAL	29	(100)	24	(100)

Cases of *Neisseria meningitidis* Invasive Disease by Culture Date, Minnesota January 1, 2003 – December 31, 2004

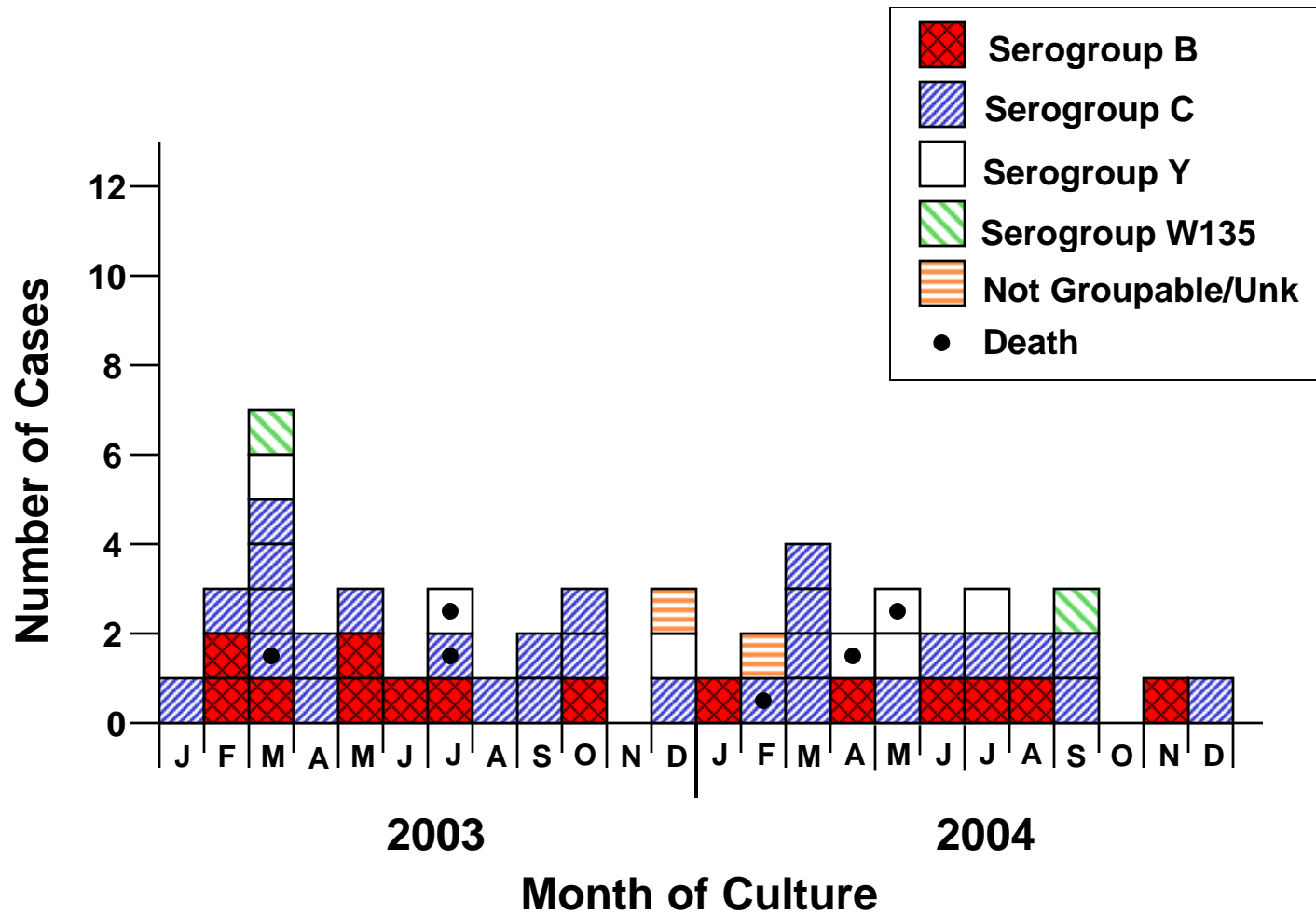


TABLE 3

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2003 - DECEMBER 31, 2004

	<u>1/1/2003-</u> <u>12/31/2003</u>		<u>1/1/2004-</u> <u>12/31/2004</u>		<u>1/1/2003-</u> <u>12/31/2003</u>		<u>1/1/2004-</u> <u>12/31/2004</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	27	(47)	23	(42)	Yes	49	(86)	46	(84)
<u>Greater Minnesota</u>	<u>30</u>	<u>(53)</u>	<u>32</u>	<u>(58)</u>	No	<u>8</u>	<u>(14)</u>	<u>9</u>	<u>(16)</u>
TOTAL	57	(100)	55	(100)	TOTAL	57	(100)	55	(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	8	(14)	5	(9)	Blood	49	(86)	49	(89)
1-4	4	(7)	3	(5)	CSF	3	(5)	4	(7)
5-9	1	(2)	1	(2)	Peritoneal	1	(2)	2	(4)
10-19	3	(5)	1	(2)	Joint	1	(2)	0	(0)
20-29	0	(0)	2	(4)	Pleural fluid	0	(0)	0	(0)
30-39	1	(2)	1	(2)	<u>Other</u>	<u>3</u>	<u>(5)</u>	<u>0</u>	<u>(0)</u>
40-49	0	(0)	0	(0)	TOTAL	57	(100)	55	(100)
50-59	10	(18)	12	(22)					
60-69	8	(14)	6	(11)					
<u>70+</u>	<u>22</u>	<u>(39)</u>	<u>24</u>	<u>(44)</u>					
TOTAL	57	(100)	55	(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	29	(51)	19	(35)	Bacteremia	18	(32)	16	(29)
<u>Female</u>	<u>28</u>	<u>(49)</u>	<u>36</u>	<u>(65)</u>	Pneumonia	23	(40)	25	(45)
TOTAL	57	(100)	55	(100)	Meningitis	4	(7)	8	(15)
RACE					Cellulitis	1	(2)	1	(2)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritonitis	1	(2)	2	(4)
White Only	32	(56)	35	(64)	Epiglottitis	2	(4)	0	(0)
Black Only	5	(9)	4	(7)	Chorioamnionitis	0	(0)	0	(0)
American Indian/ Alaskan Native Only	1	(2)	1	(2)	Arthritis	2	(4)	0	(0)
Asian/Pacific Isl. Only	0	(0)	0	(0)	Sinusitis	0	(0)	0	(0)
More than 1 Race	0	(0)	0	(0)	<u>Other</u>	<u>6</u>	<u>(11)</u>	<u>3</u>	<u>(5)</u>
Other Only	1	(2)	0	(0)	TOTAL	57	(100)	55	(100)
<u>Unknown</u>	<u>18</u>	<u>(32)</u>	<u>15</u>	<u>(27)</u>					
TOTAL	57	(100)	55	(100)					

TABLE 3 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2003 - DECEMBER 31, 2004

1/1/2003- 1/1/2004-
12/31/2003 12/31/2004

ISOLATE SEROTYPE

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
a	0	(0)	2	(4)
b	5	(9)	2	(4)
c	2	(4)	1	(2)
d	0	(0)	0	(0)
e	4	(7)	5	(9)
f	8	(14)	10	(18)
Non-typeable	34	(60)	29	(53)
<u>Missing</u>	<u>4</u>	<u>(7)</u>	<u>6</u>	<u>(11)</u>
TOTAL	57	(100)	55	(100)

SEROTYPE B (Hib) CASES BY AGE

<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	2	(40)	1	(50)
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)	0	(0)
40-59	2	(40)	1	(50)
<u>60+</u>	<u>1</u>	<u>(20)</u>	<u>0</u>	<u>(0)</u>
TOTAL	5	(100)	2	(100)

Cases of *Haemophilus influenzae* Invasive Disease by Culture Date, Minnesota January 1, 2003 - December 31, 2004

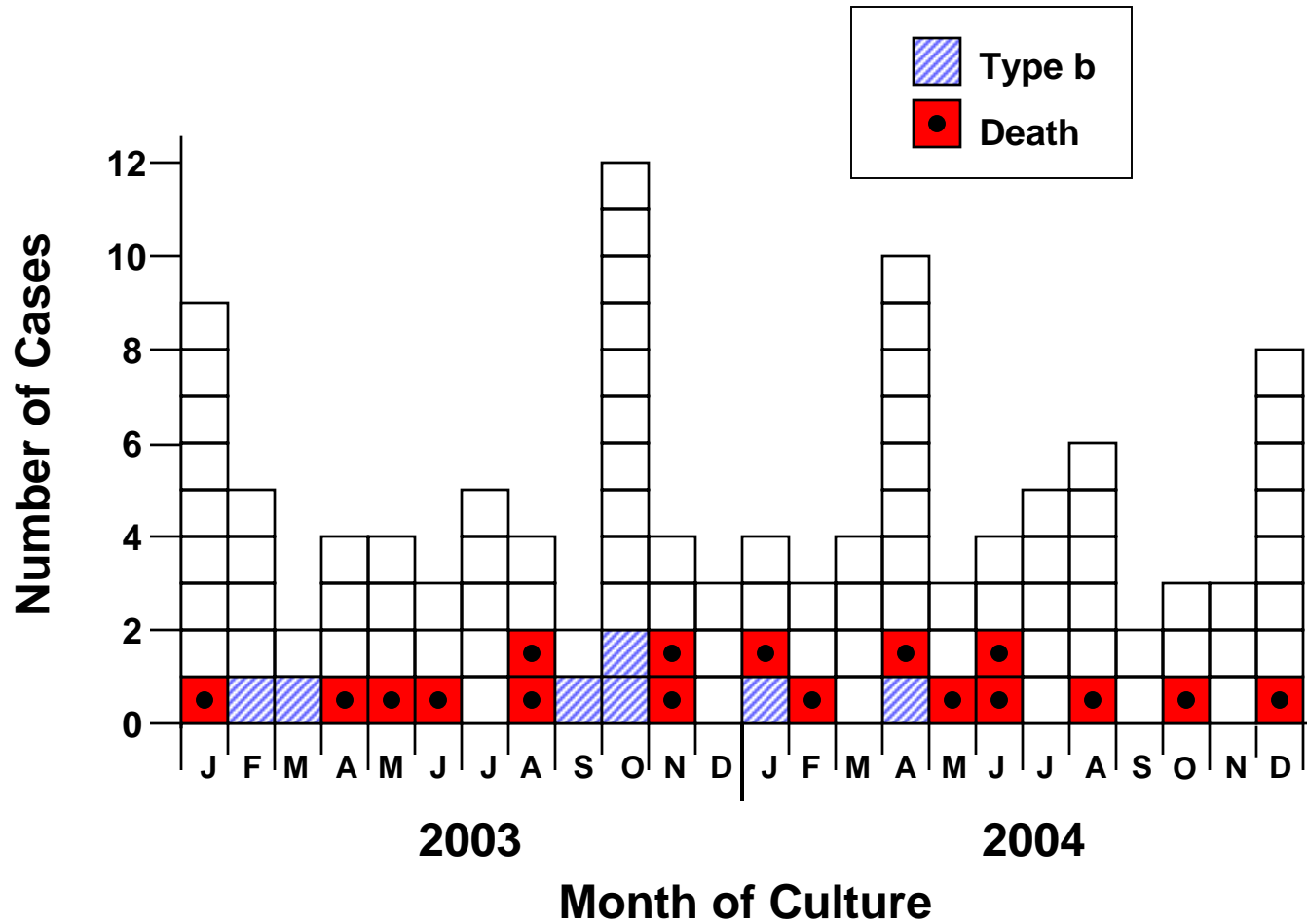


TABLE 4

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2003 - DECEMBER 31, 2004

	<u>1/1/03-</u> <u>12/31/2003</u>		<u>1/1/04-</u> <u>12/31/2004</u>		<u>1/1/03-</u> <u>12/31/2003</u>		<u>1/1/04-</u> <u>12/31/2004</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	98	(54)	84	(58)	Blood only	101	(56)	84	(58)
<u>Greater Minnesota</u>	<u>83</u>	<u>(46)</u>	<u>62</u>	<u>(42)</u>	CSF only	0	(0)	0	(0)
TOTAL	181	(100)	146	(100)	Blood and other	22	(12)	15	(10)
AGE					Joint	19	(10)	16	(11)
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritoneal	2	(1)	3	(2)
<1	1	(1)	4	(3)	Pericardial	0	(0)	0	(0)
1-4	13	(7)	10	(7)	Pleural	6	(3)	4	(3)
5-9	12	(7)	7	(5)	Middle ear	0	(0)	0	(0)
10-19	9	(5)	7	(5)	Bone	2	(1)	1	(1)
20-29	9	(5)	11	(8)	Muscle	8	(4)	6	(4)
30-39	20	(11)	13	(9)	Internal Body Site	5	(3)	1	(1)
40-49	23	(13)	13	(9)	<u>Other sterile site</u>	<u>16</u>	<u>(9)</u>	<u>16</u>	<u>(11)</u>
50-59	11	(6)	20	(14)	TOTAL	181	(100)	146	(100)
60-69	27	(15)	17	(12)	TYPE OF INFECTION				
<u>70+</u>	<u>56</u>	<u>(31)</u>	<u>44</u>	<u>(30)</u>	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
TOTAL	181	(100)	146	(100)	Bacteremia only	45	(25)	47	(32)
GENDER					Meningitis	0	(0)	1	(1)
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Pneumonia only	12	(7)	12	(8)
Male	90	(50)	74	(51)	Cellulitis only	41	(23)	23	(16)
<u>Female</u>	<u>91</u>	<u>(50)</u>	<u>72</u>	<u>(49)</u>	Necrotizing fasciitis				
TOTAL	181	(100)	146	(100)	(NF) only	9	(5)	10	(7)
RACE					Peritonitis	3	(2)	2	(1)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Arthritis only	6	(3)	10	(7)
White	129	(71)	95	(65)	Osteomyelitis	3	(2)	2	(1)
Black	6	(3)	9	(6)	Endometritis	1	(1)	1	(1)
American Indian/ Alaskan Native	4	(2)	4	(3)	Abscess	8	(4)	0	(0)
Asian/Pacific Islander	4	(2)	3	(2)	Otitis Media	0	(0)	0	(0)
More than One Race	4	(2)	4	(3)	Peurperal Sepsis	0	(0)	2	(1)
<u>Unknown</u>	<u>34</u>	<u>(19)</u>	<u>31</u>	<u>(21)</u>	STSS	4	(2)	2	(1)
TOTAL	181	100	146	100	Pneumonia + other	9	(5)	2	(1)
					NF + other	8	(4)	6	(4)
					Cellulitis + other	13	(7)	7	(5)
					Abscess + other	2	(1)	0	(0)
					<u>Other + Epiglot (1)</u>	<u>17</u>	<u>(9)</u>	<u>19</u>	<u>(13)</u>
					TOTAL	181	(100)	146	(100)

TABLE 4 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2003 - DECEMBER 31, 2004

	<u>1/1/03-</u> <u>12/31/2003</u>		<u>1/1/04-</u> <u>12/31/2004</u>	
	OUTCOME			
<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Yes	159	(88)	128	(88)
No	22	(12)	18	(12)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	181	(100)	146	(100)

TYPE OF INFECTION
RESULTING IN DEATH

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Bacteremia	8	(36)	8	(44)
Meningitis	0	(0)	0	(0)
Necrotizing fasciitis	0	(0)	2	(11)
Pneumonia	2	(9)	2	(11)
Abscess	0	(0)	0	(0)
STSS	1	(5)	1	(6)
Cellulitis	6	(27)	2	(11)
Peritonitis + STSS	1	(5)	0	(0)
Peurperal Sepsis	0	(0)	1	(6)
Septic Arthritis	1	(5)	0	(0)
Pneumonia + Cellulitis	0	(0)	1	(6)
NF + Cellulitis	0	(0)	1	(6)
Pneumonia + STSS	1	(5)	0	(0)
NF + STSS	0	(0)	0	(0)
Cellulitis + STSS	0	(0)	0	(0)
Strep Pharyngitis/Inf	1	(5)	0	(0)
<u>Mediastinitis</u>	<u>1</u>	<u>(5)</u>	<u>0</u>	<u>(0)</u>
TOTAL	22	(100)	18	(100)

Cases of Invasive Group A Streptococcal Disease by Date of Culture, Minnesota January 1, 2003 – December 31, 2004

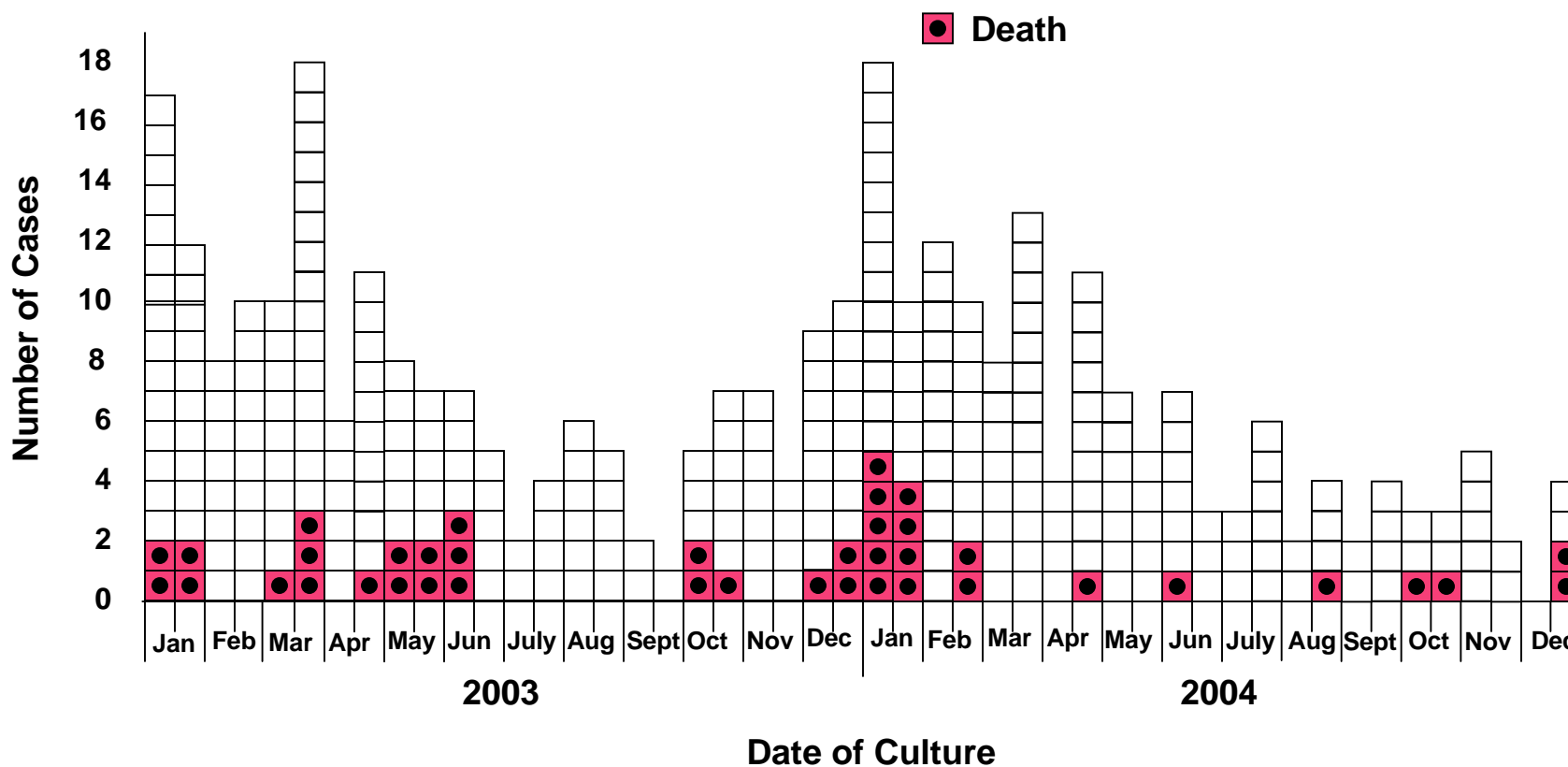


TABLE 5

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2003 - DECEMBER 31, 2004

		<u>1/1/2003-</u> <u>12/31/2003</u>		<u>1/1/2004-</u> <u>12/31/2004</u>				<u>1/1/2003-</u> <u>12/31/2003</u>		<u>1/1/2004-</u> <u>12/31/2004</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	175	(53)	189	(55)	Yes	297	(90)	321	(94)		
Greater Minnesota	154	(47)	152	(45)	No	27	(8)	20	(6)		
TOTAL	329	(100)	341	(100)	Unknown	5	(2)	0	(0)		
						TOTAL	329	(100)	341	(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>		
<7 days	20	(6)	26	(8)	Blood only	244	(74)	246	(72)		
7-90 days	16	(5)	18	(5)	CSF only	7	(2)	10	(3)		
91 days-11 mos.	2	(1)	1	(0)	Blood and CSF	2	(1)	0	(0)		
1-9	0	(0)	0	(0)	Pleural	1	(0)	3	(1)		
10-19	2	(1)	4	(1)	Joint	35	(11)	27	(8)		
20-29	6	(2)	21	(6)	Placenta	4	(1)	9	(3)		
30-39	20	(6)	23	(7)	Amniotic fluid	0	(0)	1	(0)		
40-49	39	(12)	37	(11)	Surgical Specimen	0	(0)	0	(0)		
50-59	46	(14)	51	(15)	Internal body site	3	(1)	5	(1)		
60-69	50	(15)	42	(12)	Peritoneal	9	(3)	12	(4)		
70+	128	(39)	118	(35)	Bone	24	(7)	26	(8)		
TOTAL	329	(100)	341	(100)	Other	0	(0)	2	(1)		
						TOTAL	329	(100)	341	(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	173	(53)	173	(51)	Bacteremia	154	(47)	158	(46)		
Female	156	(47)	168	(49)	Meningitis	9	(3)	12	(4)		
TOTAL	329	(100)	341	(100)	Pneumonia	21	(6)	30	(9)		
						Cellulitis	40	(12)	40	(12)	
						Arthritis	24	(7)	24	(7)	
						Osteomyelitis	25	(8)	26	(8)	
						Abscess	12	(4)	11	(3)	
						Necrotizing fasciitis	4	(1)	0	(0)	
						Peritonitis	8	(2)	8	(2)	
						Septic abortion or stillbirth	2	(1)	11	(3)	
						Other	30	(9)	21	(6)	
						TOTAL	329	(100)	341	(100)	
RACE											
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>							
White	224	(68)	221	(65)							
Black	11	(3)	18	(5)							
Amer Indian/Alas Native	6	(2)	5	(1)							
Asian/Pacific Islander	6	(2)	8	(2)							
More than 1 race	0	(0)	3	(1)							
Other/Unknown	82	(25)	86	(25)							
TOTAL	329	(100)	341	(100)							

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2003 - DECEMBER 31, 2004

	EARLY ONSET CASES*				LATE ONSET CASES*			
	<u>1/1/2003- 12/31/2003</u>		<u>1/1/2004- 12/31/2004</u>		<u>1/1/2003- 12/31/2003</u>		<u>1/1/2004- 12/31/2004</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	15	(75)	17	(65)	10	(63)	15	(83)
Greater Minnesota	5	(25)	9	(35)	6	(38)	3	(17)
TOTAL	20	(100)	26	(100)	16	(100)	18	(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	11	(55)	10	(38)	7	(44)	10	(56)
Female	9	(45)	16	(62)	9	(56)	8	(44)
TOTAL	20	(100)	26	(100)	16	(100)	18	(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	12	(60)	13	(50)	12	(75)	11	(61)
Black	2	(10)	5	(19)	1	(6)	3	(17)
American Indian/ Alaskan Native	1	(5)	0	(0)	2	(13)	0	(0)
More than 1 race	0	(0)	1	(4)	0	(0)	2	(11)
Asian/Pacific Islander	1	(5)	1	(4)	0	(0)	0	(0)
Other/Unknown	4	(20)	6	(23)	1	(6)	2	(11)
TOTAL	20	(100)	26	(100)	16	(100)	18	(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	(100)	20	(77)	16	(100)	18	(100)
No	0	(0)	3	(12)	0	(0)	0	(0)
Unknown	0	(0)	3	(12)	0	(0)	0	(0)
TOTAL	20	(100)	26	(100)	16	(100)	18	(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	16	(80)	20	(77)	12	(75)	9	(50)
Meningitis	1	(5)	2	(8)	4	(25)	7	(39)
Pneumonia	3	(15)	2	(8)	0	(0)	2	(11)
Other	0	(0)	2	(8)	0	(0)	0	(0)
TOTAL	20	(100)	26	(100)	16	(100)	18	(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, 2003 - DECEMBER 31, 2004

	<u>1/1/2003-</u> <u>12/31/2003</u>		<u>1/1/2004-</u> <u>12/31/2004</u>	
TYPE OF CASE				
<u>Type of Case*</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Maternal case with miscarriage/stillbirth	3	(1)	10	(3)
Other maternal case	1	(0)	3	(1)
Infant case - early onset	20	(6)	26	(8)
Infant case - late onset	16	(5)	18	(5)
<u>Not pregnant/postpartum/infant case</u>	<u>289</u>	<u>(88)</u>	<u>284</u>	<u>(83)</u>
TOTAL	329	(100)	341	(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

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Bacteremia without another focus of infection	1	(25)	2	(15)
Septic abortion/ stillbirth	3	(75)	8	(62)
Meningitis	0	(0)	0	(0)
Chorioamnionitis	0	(0)	2	(15)
Abscess	0	(0)	0	(0)
Pyelonephritis	0	(0)	0	(0)
Unknown	0	(0)	1	(8)
<u>Bleeding on ultrasound</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	4	(100)	13	(100)

OUTCOME OF FETUS FOR MATERNAL CASES

<u>Outcome</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Survived, no apparent clinical illness	1	(25)	2	(15)
Survived, clinical infection	0	(0)	1	(8)
Live birth, neonatal death-GBS related	0	(0)	0	(0)
Miscarriage/stillbirth-likely GBS-related	3	(75)	10	(77)
<u>Induced abortion</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	4	(100)	13	(100)

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2003 - DECEMBER 31, 2004

1/1/2003-
12/31/2003 1/1/2004-
12/31/2004

SITE OF ISOLATE CULTURE FOR MISCARRIAGES/STILLBIRTHS

<u>Site</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Maternal blood	1	(33)	0	(0)
CSF	0	(0)	1	(10)
Amniotic fluid	0	(0)	1	(10)
Placenta only	2	(67)	8	(80)
<u>Autopsy only</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	3	(100)	10	(100)

GESTATIONAL AGE OF EARLY ONSET CASES

<u>Age (weeks)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<28	1	(5)	8	(31)
28-32	1	(5)	0	(0)
33-34	1	(5)	1	(4)
35-36	0	(0)	1	(4)
37+	17	(85)	16	(62)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	20	(100)	26	(100)

BIRTH WEIGHT OF EARLY ONSET CASES

<u>Weight (grams)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1000	1	(5)	8	(31)
1000-1999	1	(5)	0	(0)
2000-2999	3	(15)	5	(19)
≥3000+	15	(75)	13	(50)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	20	(100)	26	(100)

Cases of Group B Streptococcal Disease by Date Cultured, Minnesota January 1, 2003 – December 31, 2004

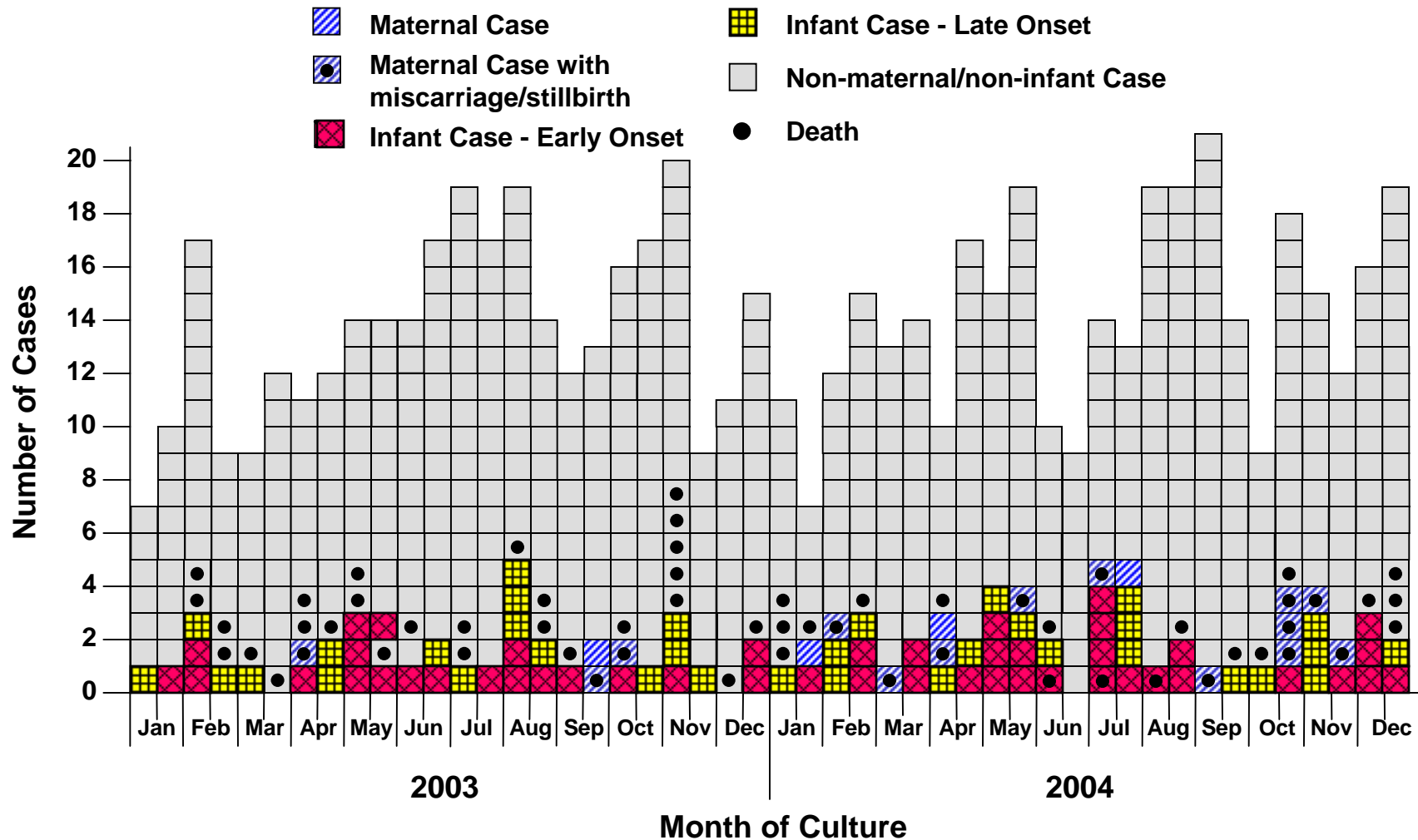


TABLE 6

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2003 - DECEMBER 31, 2004

RESIDENCE	1/1/2003- 12/31/2003		1/1/2004- 12/31/2004		OUTCOME	1/1/2003- 12/31/2003		1/1/2004- 12/31/2004	
	No.	(%)	No.	(%)		No.	(%)	No.	(%)
<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	314	(52)	286	(53)	Yes	535	(88)	491	(91)
Greater Minnesota	293	(48)	254	(47)	No	72	(12)	49	(9)
TOTAL	607	(100)	540	(100)	TOTAL	607	(100)	540	(100)
SITE OF ISOLATE CULTURE									
AGE					Culture Site				
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>(%)</u>
<1	28	(5)	33	(6)	Blood Only	558	(92)	499	(92)
1	26	(4)	21	(4)	Blood and CSF	5	(1)	1	(<1)
2-4	20	(3)	27	(5)	CSF Only	15	(2)	21	(4)
5-17	28	(5)	22	(4)	Pericardial Fluid	0	(0)	0	(0)
18-34	38	(6)	33	(6)	Pleural	17	(3)	8	(<1)
35-49	102	(17)	60	(11)	Joint	3	(<1)	3	(1)
50-64	110	(18)	114	(21)	Peritoneal	4	(1)	6	(1)
65-79	125	(21)	128	(24)	Other	5	(1)	2	(<1)
80+	130	(21)	102	(19)	TOTAL	607	(100)	540	(100)
TOTAL	607	(100)	540	(100)	TYPE OF INFECTION				
GENDER					Type				
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>(%)</u>
Male	312	(51)	279	(52)	Bacteremia				
Female	295	(49)	261	(48)	without focus	177	(29)	187	(35)
TOTAL	607	(100)	540	(100)	Pneumonia	358	(59)	286	(53)
RACE					Meningitis	36	(6)	33	(6)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Otitis	4	(1)	10	(2)
White Only	384	(63)	337	(62)	Cellulitis	2	(<1)	5	(<1)
Black Only	37	(6)	28	(5)	Other	30	(5)	19	(4)
American Indian/ Alaskan Native Only	9	(1)	12	(<1)	TOTAL	607	(100)	540	(100)
Asian/Pacific Isl. Only	10	(2)	6	(1)	PENICILLIN SUSCEPTIBILITY				
More than 1 Race	1	(<1)	0	(0)	<u>Susceptibility</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Other Only	11	(2)	0	(0)	Susceptible (MIC ≤ 0.06)	488	(86)	393	(82)
Unknown	155	(26)	157	(29)	Intermediate	32	(6)	45	(9)
TOTAL	607	(100)	540	(100)	(MIC = 0.12 - 1.0)				
TYPE OF INFECTION					Resistant (MIC > 2.0)	47	(8)	40	(8)
GENDER					TOTAL	567	(100)	478	(100)
RACE					PENICILLIN SUSCEPTIBILITY				
GENDER					Susceptibility				
RACE					Susceptible (MIC ≤ 0.06)				
GENDER					Intermediate				
RACE					(MIC = 0.12 - 1.0)				
GENDER					Resistant (MIC > 2.0)				
RACE					TOTAL				
GENDER					Not Tested				
RACE					Susceptible (MIC ≤ 0.06)				
GENDER					Intermediate				
RACE					(MIC = 0.12 - 1.0)				
GENDER					Resistant (MIC > 2.0)				
RACE					TOTAL				

TABLE 6 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2003 - DECEMBER 31, 2004

PENICILLIN NON-SUSCEPTIBILITY* BY AGE

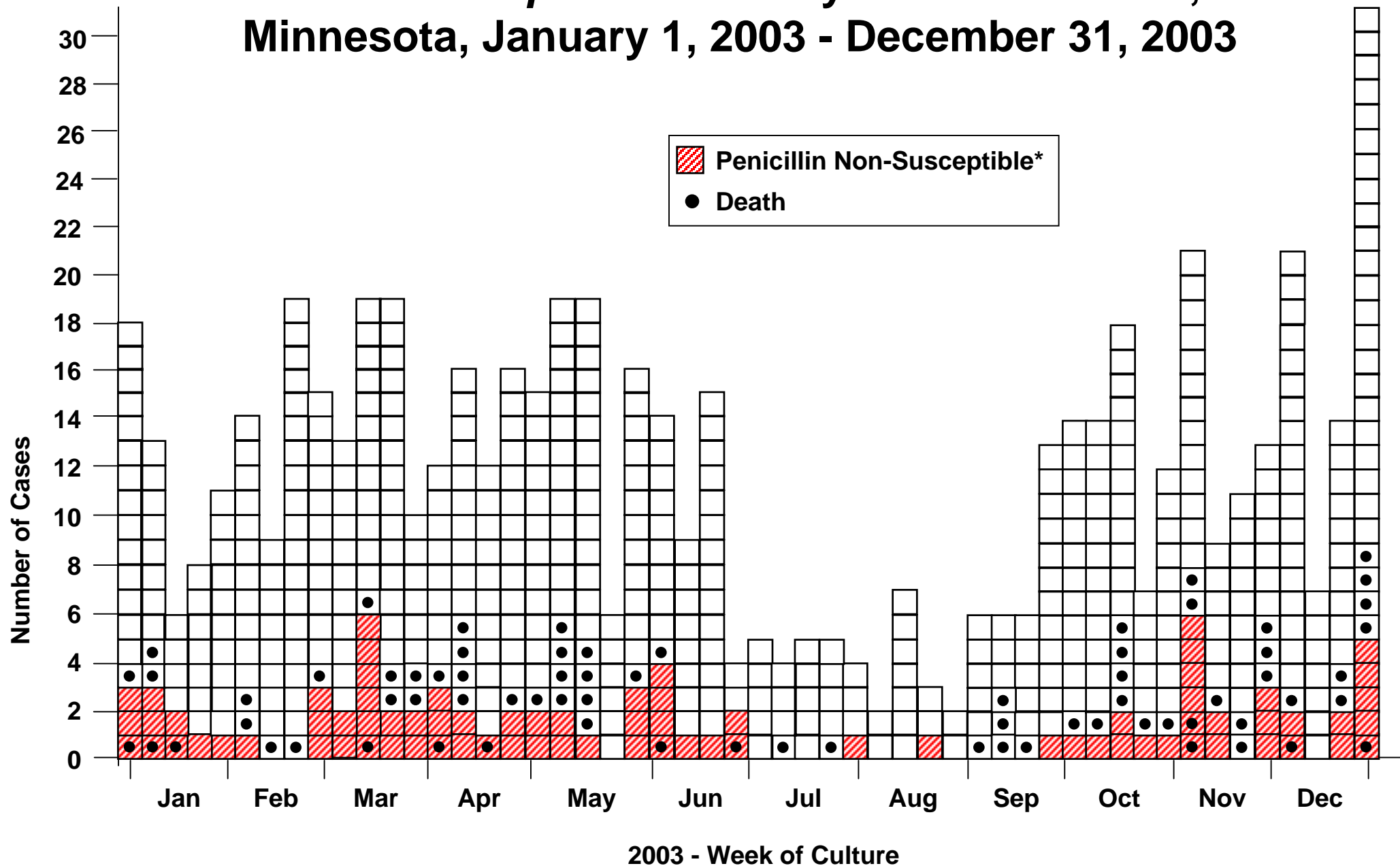
<u>Age (Years)</u>	<u>1/1/2003- 12/31/2003</u>		<u>1/1/2004- 12/31/2004</u>	
	<u>Non-Susceptible Total</u>	<u>(%)</u>	<u>Non-Susceptible Total</u>	<u>(%)</u>
<1	2 / 28	(7)	12 / 33	(36)
1	3 / 26	(12)	3 / 21	(14)
2-4	3 / 20	(15)	4 / 27	(15)
5-17	5 / 28	(18)	5 / 22	(23)
18-34	3 / 38	(8)	6 / 33	(18)
35-49	5 / 102	(5)	7 / 60	(12)
50-64	12 / 110	(11)	10 / 114	(9)
65-79	24 / 125	(19)	21 / 128	(16)
80+	<u>22 / 130</u>	<u>(17)</u>	<u>17 / 102</u>	<u>(17)</u>
TOTAL	79 / 607	(13)	85 / 540	(16)

PENICILLIN NON-SUSCEPTIBILITY* BY TYPE OF INFECTION

<u>Type</u>	<u>1/1/2003- 12/31/2003</u>		<u>1/1/2004- 12/31/2004</u>	
	<u>Non-Susceptible Total</u>	<u>(%)</u>	<u>Non-Susceptible Total</u>	<u>(%)</u>
Bacteremia	20 / 177	(11)	33 / 187	(18)
Pneumonia	48 / 358	(13)	39 / 286	(14)
Meningitis	6 / 36	(17)	6 / 33	(18)
<u>Other/Unknown</u>	<u>5 / 36</u>	<u>(14)</u>	<u>7 / 34</u>	<u>(21)</u>
TOTAL	79 / 607	(13)	85 / 540	(16)

*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, 2003 - December 31, 2003



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

