

**MINNESOTA DEPARTMENT OF HEALTH
EMERGING INFECTIONS PROGRAM**

**REPORTED CASES OF INVASIVE BACTERIAL DISEASE
JANUARY 1, 2001 - DECEMBER 31, 2002**

<u>PATHOGEN</u>	<u>1/1/2001- 12/31/2001</u>		<u>1/1/2002- 12/31/2002</u>	
	<u>No.</u>	<u>Rate per 100,000*</u>	<u>No.</u>	<u>Rate per 100,000*</u>
<i>Neisseria meningitidis</i>	27	0.55	36	0.73
Serogroup B	9		8	
Serogroup C	11		17	
Serogroup Y	7		9	
Serogroup W135	0		1	
Serogroup X	0		1	
Not groupable	0		0	
Reported but isolate not available	0		0	
<i>Haemophilus influenzae</i>	56	1.14	52	1.06
type a	2		2	
type b	1		1	
type c	0		1	
type d	4		2	
type e	1		4	
type f	6		11	
Non-typeable	23		22	
Reported but isolate not available	19		9	
Group A streptococcus	200	4.07	147	2.99
Group B streptococcus	273	5.55	312	6.34
<i>Streptococcus pneumoniae</i> †				
2001, Twin Cities				
Metropolitan area only	339	13.89	300	12.29
2002, Statewide			598	12.16

*Annual rate using populations from the U.S. Bureau of the Census 2000

†Cases reported among residents and from hospitals in the seven-county metropolitan area where reporting of all cases of *S. pneumoniae* disease is required during 2001.

Note: In 2002, *S. pneumoniae* is reported statewide.

Note: Active surveillance for these pathogens began April 1, 1995. Previous reports have summarized data for 4/1/95-12/31/01. 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, 2001 - DECEMBER 31, 2002

	<u>1/1/2001- 12/31/2001</u>		<u>1/1/2002- 12/31/2002</u>		<u>1/1/2001- 12/31/2001</u>		<u>1/1/2002- 12/31/2002</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:	14	(52)	8	(22)	Yes	23	(85)	31	(86)
<u>Greater Minnesota</u>	<u>13</u>	<u>(48)</u>	<u>28</u>	<u>(78)</u>	No	<u>4</u>	<u>(15)</u>	<u>5</u>	<u>(14)</u>
TOTAL	27	(100)	36	(100)	TOTAL	27	(100)	36	(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)	5	(14)	Blood only	18	(67)	22	(61)
1-4	3	(11)	6	(17)	CSF only	9	(33)	13	(36)
5-9	0	(0)	2	(6)	Blood and CSF	0	(0)	0	(0)
10-19	6	(22)	5	(14)	<u>Other</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(3)</u>
20-29	6	(22)	3	(8)	TOTAL	27	(100)	36	(100)
30-39	1	(4)	1	(3)	TYPE OF INFECTION				
40-49	4	(15)	3	(8)	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
50-59	2	(7)	1	(3)	Bacteremia	9	(33)	17	(47)
<u>60+</u>	<u>3</u>	<u>(11)</u>	<u>10</u>	<u>(28)</u>	Meningitis	11	(41)	16	(44)
TOTAL	27	(100)	36	(100)	Pneumonia	3	(11)	3	(8)
GENDER				TYPE OF INFECTION					
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Septic arthritis	3	(11)	0	(0)
Male	9	(33)	17	(47)	Pericarditis	0	(0)	0	(0)
<u>Female</u>	<u>18</u>	<u>(67)</u>	<u>19</u>	<u>(53)</u>	Otitis	0	(0)	0	(0)
TOTAL	27	(100)	36	(100)	<u>Other</u>	<u>1</u>	<u>(4)</u>	<u>0</u>	<u>(0)</u>
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	21	(78)	15	(42)	B	9	(33)	8	(22)
Black	2	(7)	2	(6)	C	11	(41)	17	(47)
American Indian/ Alaskan Native	0	(0)	1	(3)	Y	7	(26)	9	(25)
Asian/Pacific Islander	0	(0)	0	(0)	W135	0	(0)	1	(3)
<u>Other/Unknown</u>	<u>4</u>	<u>(15)</u>	<u>18</u>	<u>(50)</u>	X	0	(0)	1	(3)
TOTAL	27	(100)	36	(100)	Not groupable	0	(0)	0	(0)
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	21	(78)	15	(42)	Unknown	0	(0)	0	(0)
Black	2	(7)	2	(6)	TOTAL	27	(100)	36	(100)
American Indian/ Alaskan Native	0	(0)	1	(3)					
Asian/Pacific Islander	0	(0)	0	(0)					
<u>Other/Unknown</u>	<u>4</u>	<u>(15)</u>	<u>18</u>	<u>(50)</u>					
TOTAL	27	(100)	36	(100)					

Cases of *Neisseria meningitidis* Invasive Disease by Culture Date, Minnesota January 1, 2001 - December 31, 2002

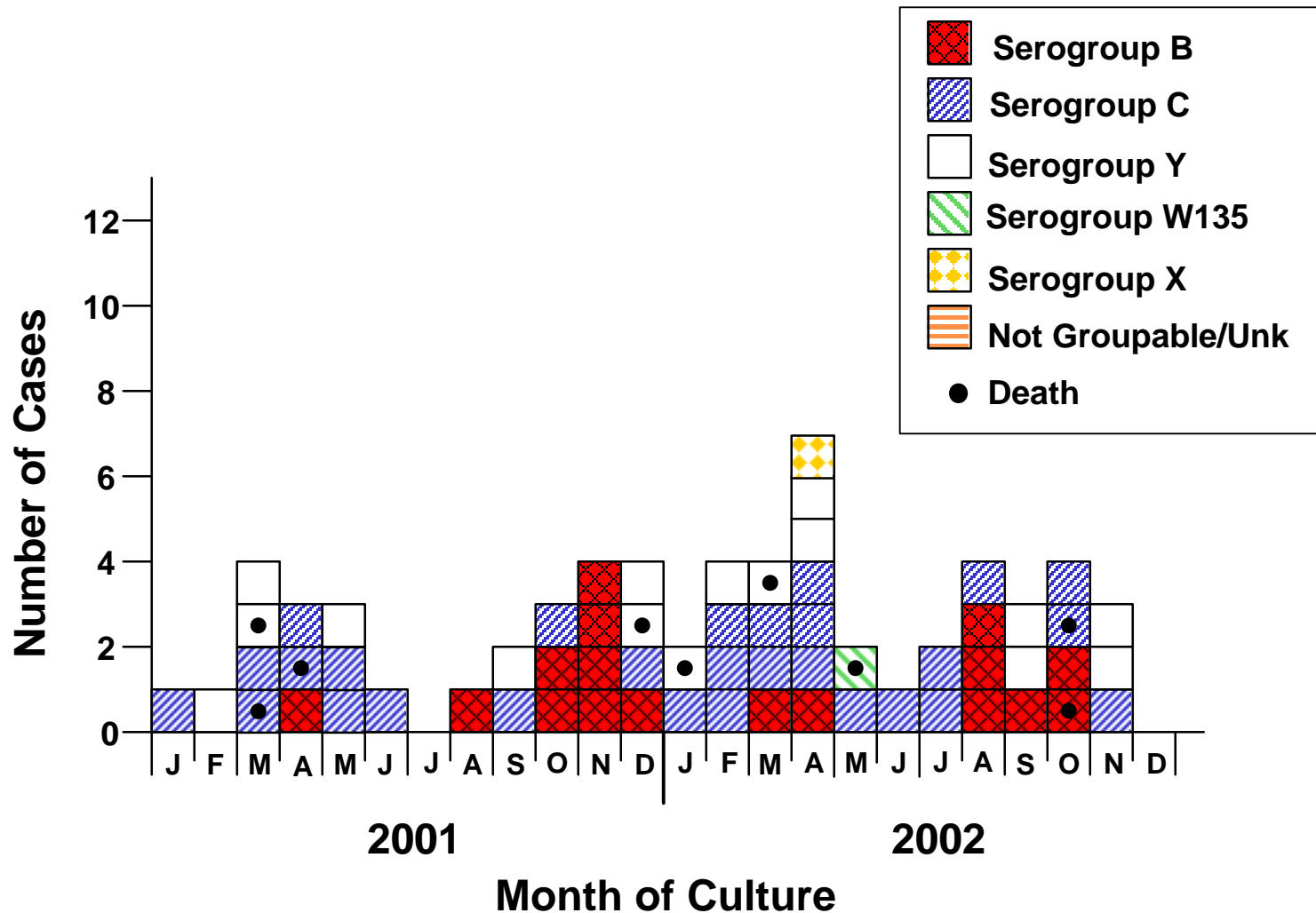


TABLE 3

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2001 - DECEMBER 31, 2002

	<u>1/1/2001- 12/31/2001</u>		<u>1/1/2002- 12/31/2002</u>		<u>1/1/2001- 12/31/2001</u>		<u>1/1/2002- 12/31/2002</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	(48)	24	(46)	Yes	44	(79)	49	(94)
Greater Minnesota	29	(52)	28	(54)	No	12	(21)	3	(6)
TOTAL	56	(100)	52	(100)	TOTAL	56	(100)	52	(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	(5)	8	(15)	Blood only	43	(77)	41	(79)
1-4	4	(7)	0	(0)	CSF only	4	(7)	4	(8)
5-9	3	(5)	1	(2)	Peritoneal	2	(4)	0	(0)
10-19	0	(0)	3	(6)	Joint	0	(0)	2	(4)
20-29	2	(4)	4	(8)	Amniotic fluid/Placenta	0	(0)	0	(0)
30-39	2	(4)	2	(4)	Pleural fluid	1	(2)	2	(4)
40-49	3	(5)	0	(0)	Surgical Aspirate	5	(9)	1	(2)
50-59	7	(13)	11	(21)	Other	1	(2)	2	(4)
60-69	8	(14)	4	(8)	TOTAL	56	(100)	52	(100)
70+	24	(43)	19	(37)					
TOTAL	56	(100)	52	(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	28	(50)	31	(60)	Bacteremia	22	(39)	17	(33)
Female	28	(50)	21	(40)	Pneumonia	19	(34)	17	(33)
TOTAL	56	(100)	52	(100)	Meningitis	4	(7)	7	(13)
RACE					Cellulitis	1	(2)	1	(2)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritonitis	0	(0)	0	(0)
White	32	(57)	24	(46)	Epiglottitis	1	(2)	1	(2)
Black	2	(4)	4	(8)	Chorioamnionitis	0	(0)	0	(0)
American Indian/ Alaskan Native	2	(4)	3	(6)	Arthritis	0	(0)	1	(2)
Asian/Pacific Islander	3	(5)	1	(2)	Septic abortion	0	(0)	0	(0)
Other/Unknown	17	(30)	20	(38)	Sinusitis	1	(2)	0	(0)
TOTAL	56	(100)	52	(100)	Other	8	(14)	8	(15)
					TOTAL	56	(100)	52	(100)

Cases of *Haemophilus influenzae* Invasive Disease by Culture Date, Minnesota January 1, 2001 - December 31, 2002

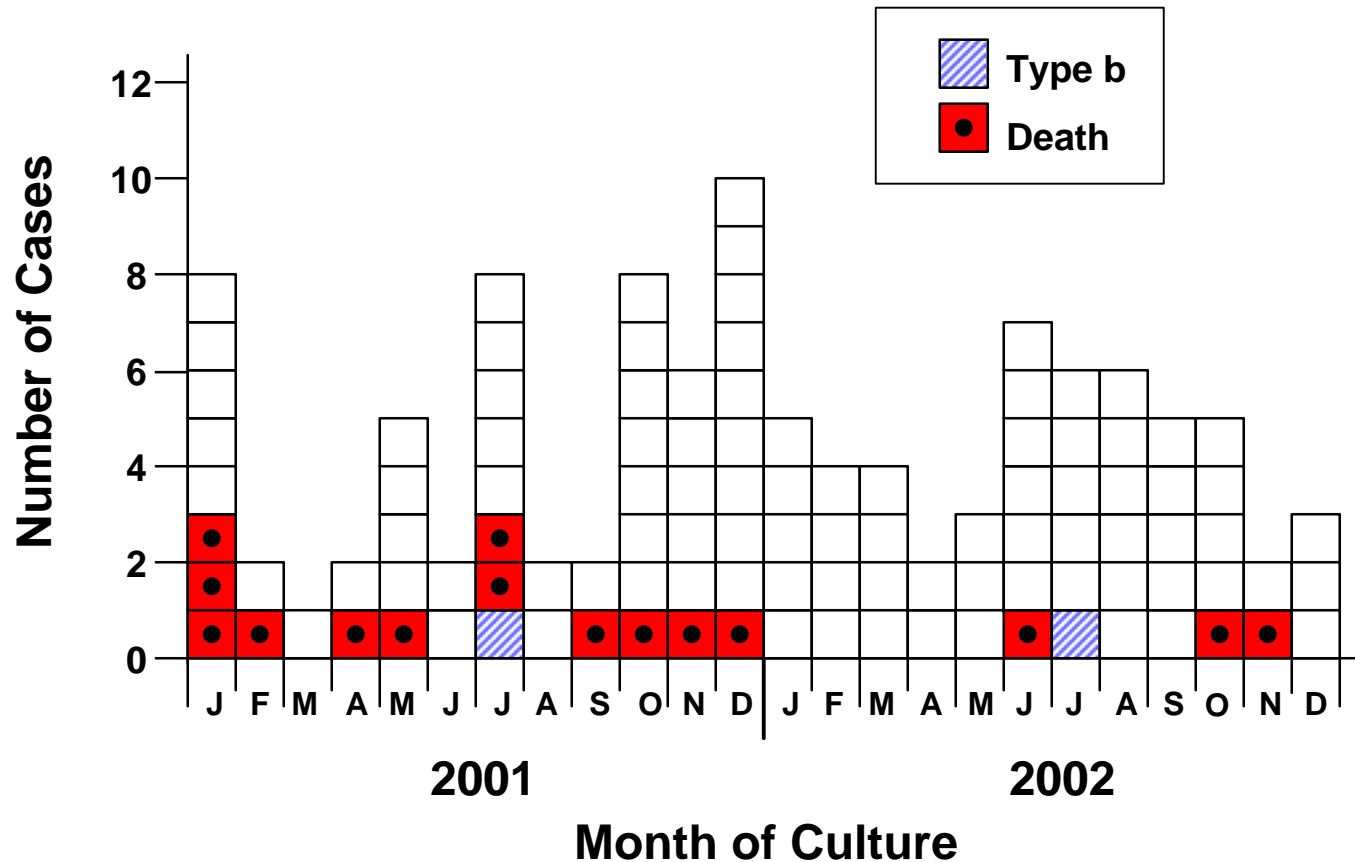


TABLE 4

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2001 - DECEMBER 31, 2002

	<u>1/1/01- 12/31/2001</u>		<u>1/1/02- 12/31/2002</u>		<u>1/1/01- 12/31/2001</u>		<u>1/1/02- 12/31/2002</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	118	(59)	82	(56)	Blood only	90	(45)	92	(63)
Greater Minnesota	<u>82</u>	<u>(41)</u>	<u>65</u>	<u>(44)</u>	CSF only	1	(1)	1	(1)
TOTAL	200	(100)	147	(100)	Blood and other	13	(7)	5	(3)
AGE					Joint	26	(13)	11	(7)
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Surgical specimen	39	(20)	7	(5)
<1	5	(3)	2	(1)	Peritoneal	3	(2)	2	(1)
1-4	8	(4)	6	(4)	Pleural	5	(3)	5	(3)
5-9	13	(7)	7	(5)	Middle ear	0	(0)	1	(1)
10-19	9	(5)	10	(7)	Bone	0	(0)	0	(0)
20-29	17	(9)	6	(4)	Surgical Aspirate	18	(9)	5	(3)
30-39	27	(14)	11	(7)	Muscle	0	0	8	(5)
40-49	36	(18)	19	(13)	Internal Body Site	0	0	1	(1)
50-59	17	(9)	19	(13)	<u>Other sterile site</u>	<u>5</u>	<u>(3)</u>	<u>9</u>	<u>(6)</u>
60-69	17	(9)	23	(16)	TOTAL	200	(100)	147	(100)
<u>70+</u>	<u>51</u>	<u>(26)</u>	<u>44</u>	<u>(30)</u>	TYPE OF INFECTION				
TOTAL	200	(100)	147	(100)	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
GENDER					Bacteremia only	37	(19)	30	(20)
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Meningitis	2	(1)	1	(1)
Male	109	(55)	73	(50)	Pneumonia only	16	(8)	10	(7)
Female	<u>91</u>	<u>(46)</u>	<u>74</u>	<u>(50)</u>	Cellulitis only	47	(24)	36	(24)
TOTAL	200	(100)	147	(100)	Necrotizing fasciitis (NF) only	11	(6)	8	(5)
RACE					Peritonitis	2	(1)	1	(1)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Arthritis only	9	(5)	7	(5)
White	118	(59)	99	(67)	Osteomyelitis	7	(4)	1	(1)
Black	13	(7)	5	(3)	Endometritis	1	(1)	2	(1)
American Indian/ Alaskan Native	12	(6)	5	(3)	Abscess	11	(6)	9	(6)
Asian/Pacific Islander	5	(3)	1	(1)	Otitis Media	0	(0)	2	(1)
<u>Other/Unknown</u>	<u>52</u>	<u>(26)</u>	<u>37</u>	<u>(25)</u>	Peurperal Sepsis	0	(0)	1	(1)
TOTAL	200	(100)	147	(100)	STSS	1	(1)	4	(3)
					Pneumonia + other	4	(2)	3	(2)
					NF + other	6	(3)	5	(3)
					Cellulitis + other	8	(4)	10	(7)
					Abscess + other	1	(1)	3	(2)
					<u>Other</u>	<u>37</u>	<u>(19)</u>	<u>14</u>	<u>(10)</u>
					TOTAL	200	(100)	147	(100)

TABLE 4 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2001 - DECEMBER 31, 2002

	<u>1/1/01-</u> <u>12/31/2001</u>		<u>1/1/02-</u> <u>12/31/2002</u>	
	OUTCOME			
<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Yes	185	(93)	123	(84)
No	15	(8)	24	(16)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	200	(100)	147	(100)

TYPE OF INFECTION
RESULTING IN DEATH

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Bacteremia	4	(27)	4	(17)
Meningitis	0	(0)	0	(0)
Necrotizing fasciitis	3	(20)	3	(13)
Pneumonia	2	(13)	4	(17)
Abscess	0	(0)	1	(4)
STSS	0	(0)	2	(8)
Cellulitis	2	(13)	4	(17)
Peritonitis	0	(0)	0	(0)
Periperal Sepsis	0	(0)	1	(4)
Septic Arthritis	1	(7)	1	(4)
Pneumonia + Cellulitis	1	(7)	0	(0)
NF + Cellulitis	1	(7)	2	(8)
Pneumonia + STSS	0	(0)	0	(0)
NF + STSS	1	(7)	1	(4)
<u>Cellulitis + STSS</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(4)</u>
TOTAL	15	(100)	24	(100)

Cases of Invasive Group A Streptococcal Disease by Date of Culture, Minnesota January 1, 2001 – December 31, 2002

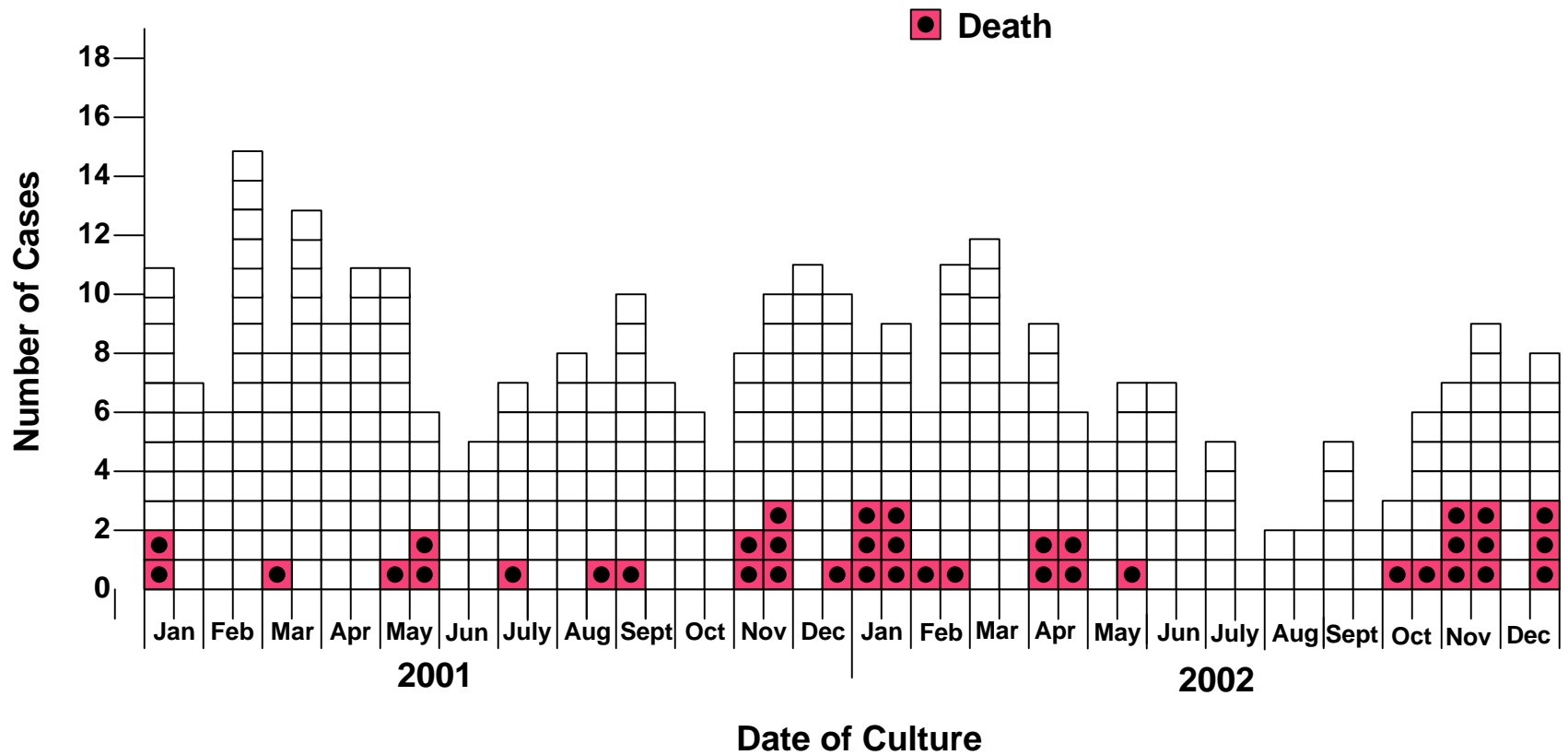


TABLE 5

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2001 - DECEMBER 31, 2002

	<u>1/1/2001-</u> <u>12/31/2001</u>		<u>1/1/2002-</u> <u>12/31/2002</u>			<u>1/1/2001-</u> <u>12/31/2001</u>		<u>1/1/2002-</u> <u>12/31/2002</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	143	(52)	188	(60)	Yes	254	(93)	289	(92)
<u>Greater Minnesota</u>	<u>130</u>	<u>(48)</u>	<u>125</u>	<u>(40)</u>	<u>No</u>	<u>19</u>	<u>(7)</u>	<u>24</u>	<u>(8)</u>
TOTAL	273	(100)	313	(100)	TOTAL	273	(100)	313	(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	22	(8)	27	(9)	Blood only	196	(72)	241	(77)
7-90 days	17	(6)	18	(6)	CSF only	11	(4)	13	(4)
91 days-11 mos.	6	(2)	2	(1)	Blood and CSF	2	(1)	0	(0)
1-9	3	(<1)	0	(0)	Pleural	2	(<1)	3	(1)
10-19	5	(2)	5	(2)	Joint	23	(8)	22	(7)
20-29	14	(5)	15	(5)	Placenta	6	(2)	8	(3)
30-39	20	(7)	20	(6)	Surgical Specimen	15	(5)	1	(0)
40-49	35	(13)	35	(11)	Peritoneal	6	(2)	8	(3)
50-59	41	(15)	37	(12)	Bone	12	(4)	17	(5)
60-69	33	(12)	57	(18)	<u>Other</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
<u>70+</u>	<u>77</u>	<u>(28)</u>	<u>97</u>	<u>(31)</u>	TOTAL	273	(100)	313	(100)
TOTAL	273	(100)	313	(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	155	(57)	167	(53)	Bacteremia	118	(43)	139	(44)
<u>Female</u>	<u>118</u>	<u>(43)</u>	<u>146</u>	<u>(47)</u>	Meningitis	15	(5)	9	(3)
TOTAL	273	(100)	313	(100)	Pneumonia	14	(5)	24	(8)
					Cellulitis	34	(12)	46	(15)
					Arthritis	22	(8)	20	(6)
					Osteomyelitis	16	(6)	13	(4)
					Abscess	9	(3)	10	(3)
					Necrotizing fasciitis	1	(0)	3	(1)
					Peritonitis	5	(2)	8	(3)
					Septic abortion or stillbirth	6	(2)	6	(2)
					<u>Other</u>	<u>33</u>	<u>(12)</u>	<u>35</u>	<u>(11)</u>
					TOTAL	273	(100)	313	(100)
RACE									
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>					
White	174	(64)	181	(58)					
Black	18	(7)	22	(7)					
American Indian/ Alaskan Native	6	(2)	6	(2)					
Asian/Pacific Islander	7	(0)	6	(2)					
<u>Other/Unknown</u>	<u>68</u>	<u>(25)</u>	<u>98</u>	<u>(31)</u>					
TOTAL	273	(100)	313	(100)					

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2001 - DECEMBER 31, 2002

	EARLY ONSET CASES*				LATE ONSET CASES*			
	<u>1/1/2001- 12/31/2001</u>		<u>1/1/2002- 12/31/2002</u>		<u>1/1/2001- 12/31/2001</u>		<u>1/1/2002- 12/31/2002</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	14	(64)	19	(70)	9	(53)	11	(61)
Greater Minnesota	8	(36)	8	(30)	8	(47)	7	(39)
TOTAL	22	(100)	27	(100)	17	(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	12	(55)	11	(41)	11	(65)	8	(44)
Female	10	(45)	16	(59)	6	(35)	10	(56)
TOTAL	22	(100)	27	(100)	17	(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	14	(64)	21	(78)	7	(41)	13	(72)
Black	1	(5)	1	(4)	8	(47)	5	(28)
American Indian/ Alaskan Native	0	(0)	2	(7)	0	(0)	0	(0)
Asian/Pacific Islander	3	(14)	2	(7)	1	(6)	0	(0)
Unknown	4	(18)	1	(4)	1	(6)	0	(0)
TOTAL	22	(100)	27	(100)	17	(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	19	(86)	26	(96)	15	(88)	17	(94)
No	3	(14)	1	(4)	2	(12)	1	(6)
TOTAL	22	(100)	27	(100)	17	(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	18	(82)	18	(67)	9	(53)	13	(72)
Meningitis	2	(9)	1	(4)	5	(29)	4	(22)
Pneumonia	1	(5)	4	(15)	0	(0)	0	(0)
Other	1	(5)	4	(15)	3	(18)	1	(6)
TOTAL	22	(100)	27	(100)	17	(100)	18	(100)

* Early onset is defined as occurring in the first 6 days, and late onset in the 7th-90th days of life.

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2001 - DECEMBER 31, 2002

<u>Type of Case*</u>	<u>1/1/2001-</u> <u>12/31/2001</u>		<u>1/1/2002-</u> <u>12/31/2002</u>	
	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Maternal case with miscarriage/ stillbirth	8	(3)	8	(3)
Other maternal case	6	(2)	6	(2)
Infant case - early onset	22	(8)	27	(9)
Infant case - late onset	17	(6)	18	(6)
<u>Not pregnant/postpartum/infant case</u>	<u>220</u>	<u>(81)</u>	<u>254</u>	<u>(81)</u>
TOTAL	273	(100)	313	(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 - 90th 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	3	(21)	1	(7)
Septic abortion/ stillbirth	7	(50)	8	(57)
Meningitis	1	(7)	0	(0)
Chorioamnionitis	2	(14)	1	(7)
Abscess	1	(7)	0	(0)
Pyelonephritis	0	(0)	1	(7)
Unknown	0	(0)	2	(14)
<u>Bleeding on ultrasound</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(7)</u>
TOTAL	14	(100)	14	(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	3	(21)	4	(29)
Survived, clinical infection	2	(14)	1	(7)
Live birth, neonatal death-GBS related	1	(7)	0	(0)
Miscarriage/stillbirth-likely GBS-related	8	(57)	8	(57)
<u>Induced abortion</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(7)</u>
TOTAL	14	(100)	14	(100)

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2001 - DECEMBER 31, 2002

	<u>1/1/2001-</u> <u>12/31/2001</u>		<u>1/1/2002-</u> <u>12/31/2002</u>	
SITE OF ISOLATE CULTURE FOR MISCARRIAGES/STILLBIRTHS				
<u>Site</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Maternal blood	0	(0)	2	(25)
Amniotic fluid	1	(13)	0	(0)
Placenta only	6	(75)	6	(75)
<u>Autopsy only</u>	<u>1</u>	<u>(13)</u>	<u>0</u>	<u>(0)</u>
TOTAL	8	(100)	8	(100)

WEEKS GESTATION AT TIME OF MISCARRIAGE/STILLBIRTH

<u>Age (weeks)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<24	3	(38)	0	(0)
24-27	0	(0)	0	(0)
28-32	0	(0)	0	(0)
33-34	0	(0)	0	(0)
35-36	0	(0)	0	(0)
37+	0	(0)	0	(0)
<u>Unknown</u>	<u>5</u>	<u>(63)</u>	<u>8</u>	<u>(100)</u>
TOTAL	8	(100)	8	(100)

GESTATIONAL AGE OF EARLY ONSET CASES

<u>Age (weeks)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<28	2	(9)	6	(21)
28-32	2	(9)	1	(4)
33-34	0	(0)	1	(4)
35-36	0	(0)	2	(7)
37+	18	(82)	17	(61)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(4)</u>
TOTAL	22	(100)	28	(100)

BIRTH WEIGHT OF EARLY ONSET CASES

<u>Weight (grams)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1000	2	(9)	5	(18)
1000-1999	2	(9)	2	(7)
2000-2999	1	(5)	4	(14)
≥3000+	17	(77)	17	(61)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	22	(100)	28	(100)

Cases of Group B Streptococcal Disease by Date Cultured, Minnesota January 1, 2001 – December 31, 2002

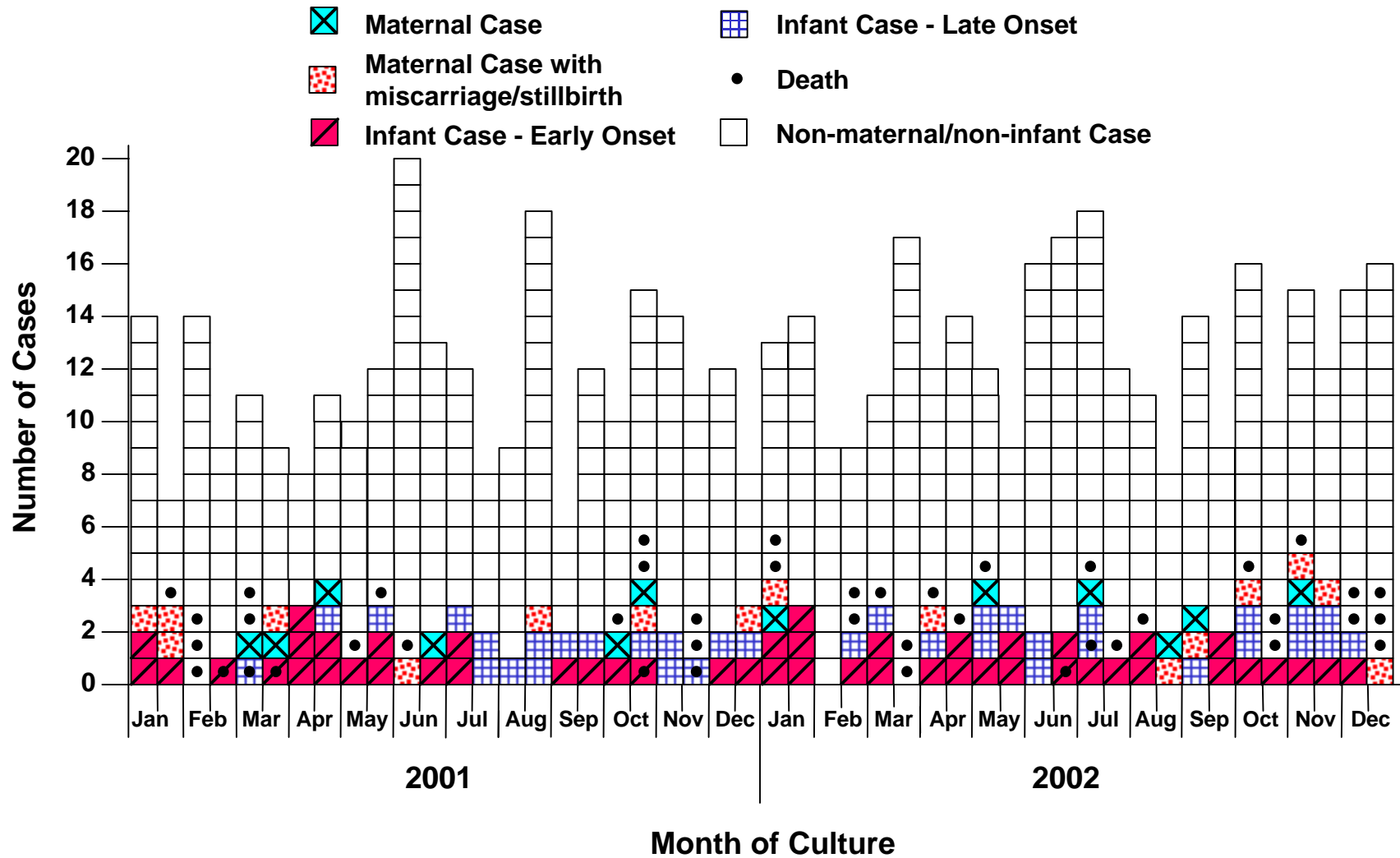


TABLE 6

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2001 - DECEMBER 31, 2002,
 TWIN CITIES METRO AREA ONLY IN 2001
 STATEWIDE IN 2002

	TWIN CITIES METRO		GREATER MN		TOTAL			
	<u>1/1/2001- 12/31/2001</u>	<u>1/1/2002- 12/31/2002</u>	<u>1/1/2002- 12/31/2002</u>	<u>1/1/2002- 12/31/2002</u>				
AGE								
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	23	(7)	11	(4)	10	(3)	21	(4)
1	24	(7)	13	(4)	10	(3)	23	(4)
2-4	34	(10)	18	(6)	11	(4)	29	(5)
5-17	24	(7)	15	(5)	14	(5)	29	(5)
18-34	23	(7)	18	(6)	7	(2)	25	(4)
35-49	56	(17)	49	(16)	44	(15)	93	(16)
50-64	42	(12)	75	(25)	53	(18)	128	(21)
65-79	69	(20)	62	(21)	84	(28)	146	(24)
80+	44	(13)	39	(13)	65	(22)	104	(17)
TOTAL	339	(100)	300	(100)	298	(100)	598	(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	180	(53)	160	(53)	154	(52)	314	(53)
Female	159	(47)	140	(47)	144	(48)	284	(47)
TOTAL	339	(100)	300	(100)	298	(100)	598	(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	200	(59)	177	(59)	178	(60)	355	(59)
Black	32	(9)	35	(12)	0	(0)	35	(6)
American Indian/ Alaskan Native	3	(1)	4	(1)	2	(1)	6	(1)
Asian/Pacific Islander	10	(3)	5	(2)	0	(0)	5	(1)
Other/Unknown	94	(28)	79	(26)	118	(40)	197	(33)
TOTAL	339	(100)	300	(100)	298	(100)	598	(100)

TABLE 6 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2001 - DECEMBER 31, 2002,
TWIN CITIES METRO AREA ONLY IN 2001

STATEWIDE IN 2002

	TWIN CITIES METRO		GREATER MN		TOTAL			
	<u>1/1/2001-</u> <u>12/31/2001</u>	<u>1/1/2002-</u> <u>12/31/2002</u>	<u>1/1/2002-</u> <u>12/31/2002</u>	<u>1/1/2002-</u> <u>12/31/2002</u>	<u>1/1/2002-</u> <u>12/31/2002</u>	<u>1/1/2002-</u> <u>12/31/2002</u>		
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	309	(91)	268	(89)	260	(87)	528	(88)
<u>No</u>	<u>30</u>	<u>(9)</u>	<u>32</u>	<u>(11)</u>	<u>38</u>	<u>(13)</u>	<u>70</u>	<u>(12)</u>
TOTAL	339	(100)	300	(100)	298	(100)	598	(100)

SITE OF ISOLATE CULTURE

<u>Culture Site</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Blood only	306	(90)	270	(90)	269	(90)	539	(90)
Blood and CSF	1	(<1)	0	(0)	1	(<1)	1	(<1)
CSF only	11	(3)	18	(6)	17	(6)	35	(6)
Pericardial Fluid	0	(0)	1	(<1)	0	(0)	1	(<1)
Pleural	11	(3)	6	(2)	3	(1)	9	(2)
Joint	4	(1)	1	(<1)	2	(1)	3	(1)
Peritoneal Fluid	1	(<1)	3	(1)	1	(<1)	4	(1)
<u>Other</u>	<u>5</u>	<u>(1)</u>	<u>1</u>	<u>(<1)</u>	<u>5</u>	<u>(2)</u>	<u>6</u>	<u>(1)</u>
TOTAL	339	(100)	300	(100)	298	(100)	598	(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								
without focus	125	(37)	80	(27)	106	(36)	186	(31)
Pneumonia	172	(51)	177	(59)	156	(52)	333	(56)
Meningitis	17	(5)	21	(7)	25	(8)	46	(8)
Otitis	8	(2)	1	(<1)	1	(<1)	2	(<1)
Cellulitis	2	(1)	2	(1)	0	(0)	2	(<1)
Arthritis	3	(1)	1	(<1)	0	(0)	1	(<1)
<u>Other/Unknown</u>	<u>12</u>	<u>(4)</u>	<u>18</u>	<u>(6)</u>	<u>10</u>	<u>(3)</u>	<u>28</u>	<u>(5)</u>
TOTAL	339	(100)	300	(100)	298	(100)	598	(100)

TABLE 6 (CONTINUED)
 REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2001 - DECEMBER 31, 2002,
 TWIN CITIES METRO AREA ONLY IN 2001
 STATEWIDE IN 2002

	TWIN CITIES METRO		GREATER MN		TOTAL			
	1/01/2001- 12/31/2001	1/01/2002- 12/31/2002	1/01/2002- 12/31/2002	1/01/2002- 12/31/2002	1/01/2002- 12/31/2002	1/01/2002- 12/31/2002		
PENICILLIN SUSCEPTIBILITY								
<u>Susceptibility</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Susceptible (MIC ≤ 0.06)	235	(69)	230	(77)	195	(65)	425	(71)
Intermediate (MIC = 0.12 - 1.0)	21	(6)	21	(7)	17	(6)	38	(6)
Resistant (MIC ≥ 2.0)	48	(14)	34	(11)	30	(10)	64	(11)
<u>Unknown</u>	<u>35</u>	<u>(10)</u>	<u>15</u>	<u>(5)</u>	<u>56</u>	<u>(19)</u>	<u>71</u>	<u>(12)</u>
TOTAL	339	(100)	300	(100)	298	(100)	598	(100)

PENICILLIN NON-SUSCEPTIBILITY* BY AGE

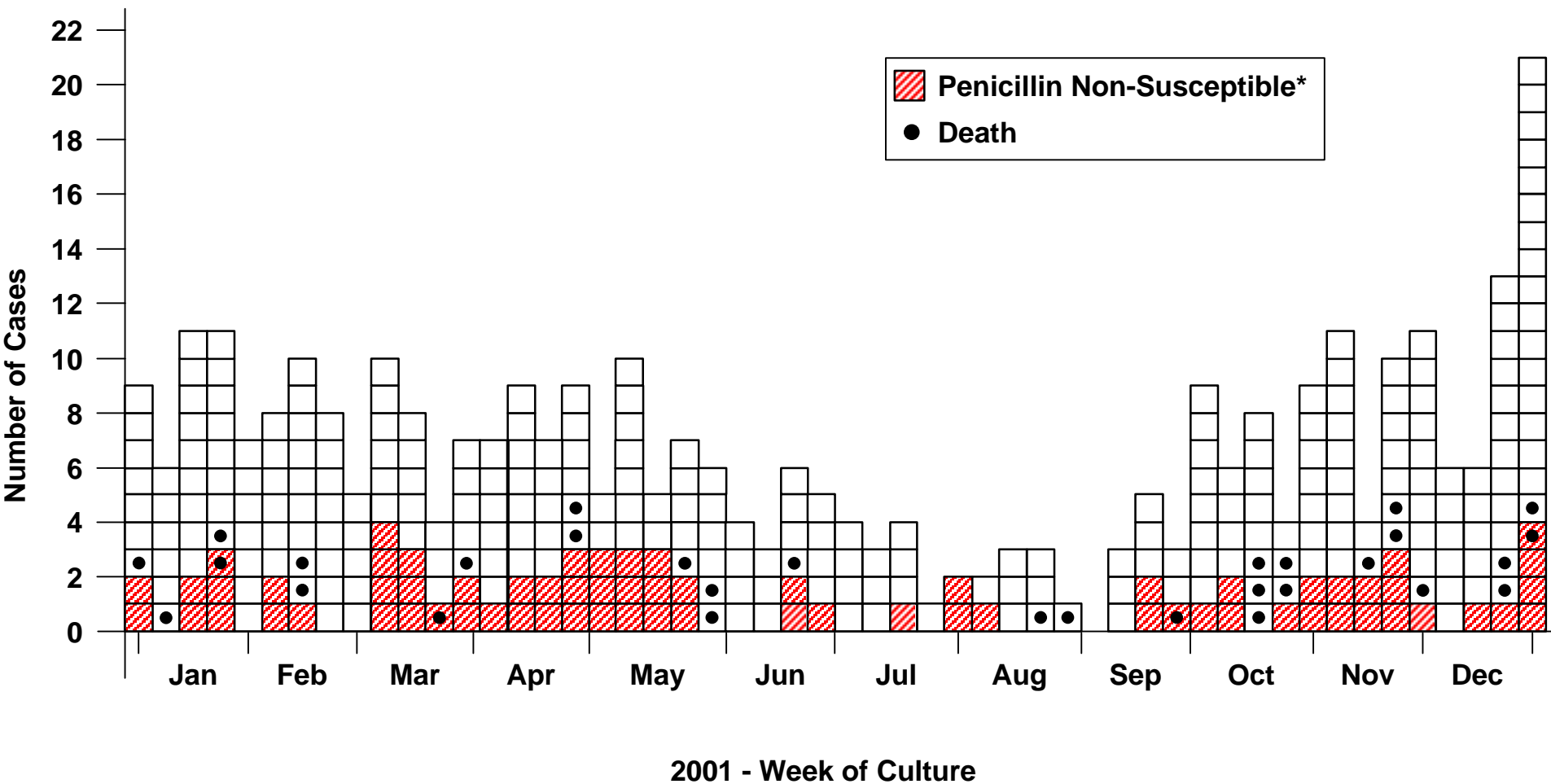
<u>Age (Years)</u>	<u>Total</u>	<u>(%)</u>	<u>Total</u>	<u>(%)</u>	<u>Total</u>	<u>(%)</u>	<u>Total</u>	<u>(%)</u>
<1	7 / 23	(30)	5 / 11	(45)	1 / 10	(10)	6 / 21	(29)
1	5 / 24	(21)	3 / 13	(23)	2 / 10	(20)	5 / 23	(22)
2-4	8 / 34	(24)	2 / 18	(11)	1 / 11	(9)	3 / 29	(10)
5-17	3 / 24	(13)	3 / 15	(20)	1 / 14	(7)	4 / 29	(14)
18-34	5 / 23	(22)	2 / 18	(11)	1 / 7	(14)	3 / 25	(12)
35-49	5 / 56	(9)	8 / 49	(16)	6 / 44	(14)	14 / 93	(15)
50-64	7 / 42	(17)	11 / 75	(15)	10 / 53	(19)	21 / 128	(16)
65-79	18 / 69	(26)	15 / 62	(24)	13 / 84	(15)	28 / 146	(19)
<u>80+</u>	<u>11 / 44</u>	<u>(25)</u>	<u>6 / 39</u>	<u>(15)</u>	<u>12 / 65</u>	<u>(18)</u>	<u>18 / 104</u>	<u>(17)</u>
TOTAL	69 / 339	(20)	55 / 300	(18)	47 / 298	(16)	102 / 598	(17)

PENICILLIN NON-SUSCEPTIBILITY* BY TYPE OF INFECTION

<u>Type</u>	<u>Total</u>	<u>(%)</u>	<u>Total</u>	<u>(%)</u>	<u>Total</u>	<u>(%)</u>	<u>Total</u>	<u>(%)</u>
Bacteremia	24 / 125	(19)	16 / 80	(20)	17 / 106	(16)	33 / 186	(18)
Pneumonia	32 / 172	(19)	28 / 177	(16)	24 / 156	(15)	52 / 333	(16)
Meningitis	8 / 17	(47)	5 / 21	(24)	3 / 25	(12)	8 / 46	(17)
<u>Other/Unknown</u>	<u>5 / 25</u>	<u>(20)</u>	<u>6 / 22</u>	<u>(27)</u>	<u>3 / 11</u>	<u>(27)</u>	<u>9 / 33</u>	<u>(27)</u>
TOTAL	69 / 339	(20)	55 / 300	(18)	47 / 298	(16)	102 / 598	(17)

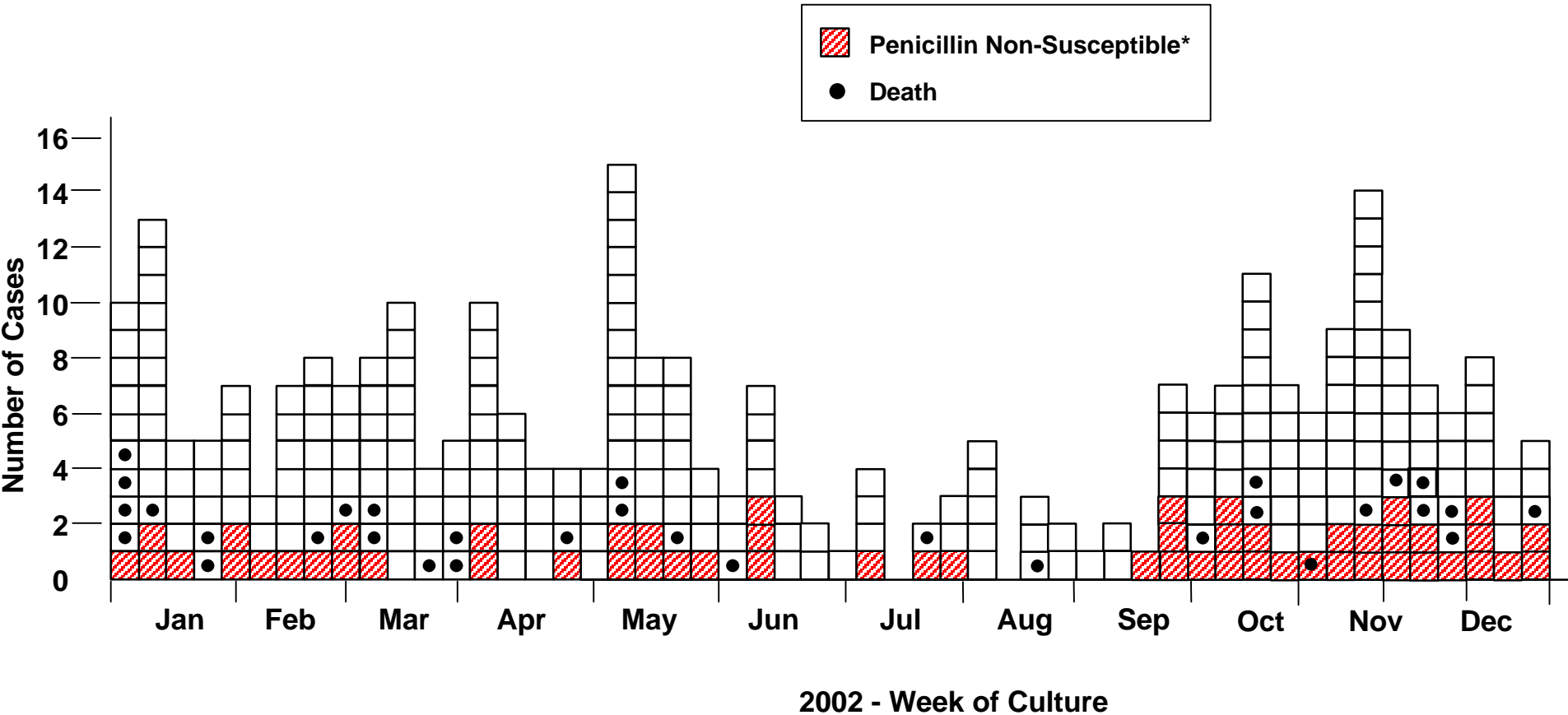
*Penicillin non-susceptible includes isolates with a MIC ≥ 0.12 µg/ml.

Cases of *S. pneumoniae* by Week of Culture, Twin Cities Metropolitan Area, January 1, 2001 - December 31, 2001



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

Cases of *S. pneumoniae* by Week of Culture, Twin Cities Metropolitan Area, January 1, 2002 - December 31, 2002



* 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, 2002 - December 31, 2002

