

**MINNESOTA DEPARTMENT OF HEALTH
EMERGING INFECTIONS PROGRAM**

**REPORTED CASES OF INVASIVE BACTERIAL DISEASE
JANUARY 1, 2000 - DECEMBER 31, 2001**

<u>PATHOGEN</u>	<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>	
	<u>No.</u>	<u>Rate per 100,000*</u>	<u>No.</u>	<u>Rate per 100,000*</u>
<i>Neisseria meningitidis</i>	22	0.46	27	0.57
Serogroup B	4		9	
Serogroup C	11		11	
Serogroup Y	6		7	
Serogroup W135	1		0	
Serogroup Z	0		0	
Not groupable	0		0	
Reported but isolate not available	0		0	
<i>Haemophilus influenzae</i>	52	1.09	56	1.17
type a	0		2	
type b	3		1	
type c	1		0	
type d	0		4	
type e	3		1	
type f	2		6	
Non-typeable	28		23	
Reported but isolate not available	15		19	
Group A streptococcus	149	3.12	200	4.19
Group B streptococcus	294	6.16	273	5.72
<i>Streptococcus pneumoniae</i>				
From Twin Cities Metropolitan Area only†	439	17.21	339	13.29

*Annual rate using 1999 population estimates from the U.S. Bureau of the Census

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

Note: Active surveillance for these pathogens began April 1, 1995. Previous reports have summarized data for 4/1/95-12/31/99. 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, 2000 - DECEMBER 31, 2001

	<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>		<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</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	13	(59)	14	(52)	Yes	19	(86)	23	(85)
<u>Greater Minnesota</u>	<u>9</u>	<u>(41)</u>	<u>13</u>	<u>(48)</u>	No	<u>3</u>	<u>(14)</u>	<u>4</u>	<u>(15)</u>
TOTAL	22	(100)	27	(100)	TOTAL	22	(100)	27	(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	(9)	2	(7)	Blood only	14	(64)	18	(67)
1-4	1	(5)	3	(11)	CSF only	6	(27)	9	(33)
5-9	2	(9)	0	(0)	Blood and CSF	2	(9)	0	(0)
10-19	3	(14)	6	(22)	<u>Joint</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
20-29	4	(18)	6	(22)	TOTAL	22	(100)	27	(100)
30-39	1	(5)	1	(4)	TYPE OF INFECTION				
40-49	0	(0)	4	(15)	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
50-59	3	(14)	2	(7)	Bacteremia	6	(27)	9	(33)
<u>60+</u>	<u>6</u>	<u>(27)</u>	<u>3</u>	<u>(11)</u>	Meningitis	11	(50)	11	(41)
TOTAL	22	(100)	27	(100)	Pneumonia	3	(14)	3	(11)
GENDER				TYPE OF INFECTION					
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Septic arthritis	0	(0)	3	(11)
Male	9	(41)	9	(33)	Pericarditis	0	(0)	0	(0)
<u>Female</u>	<u>13</u>	<u>(59)</u>	<u>18</u>	<u>(67)</u>	Otitis	2	(9)	0	(0)
TOTAL	22	(100)	27	(100)	<u>Other</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(4)</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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(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	12	(55)	21	(78)	B	4	(18)	9	(33)
Black	2	(9)	2	(7)	C	11	(50)	11	(41)
American Indian/ Alaskan Native	1	(5)	0	(0)	Y	6	(27)	7	(26)
Asian/Pacific Islander	0	(0)	0	(0)	W135	1	(5)	0	(0)
<u>Other/Unknown</u>	<u>7</u>	<u>(32)</u>	<u>4</u>	<u>(15)</u>	Z	0	(0)	0	(0)
TOTAL	22	(100)	27	(100)	Not groupable	0	(0)	0	

Cases of *Neisseria meningitidis* Invasive Disease by Culture Date, Minnesota January 1, 2000 - December 31, 2001

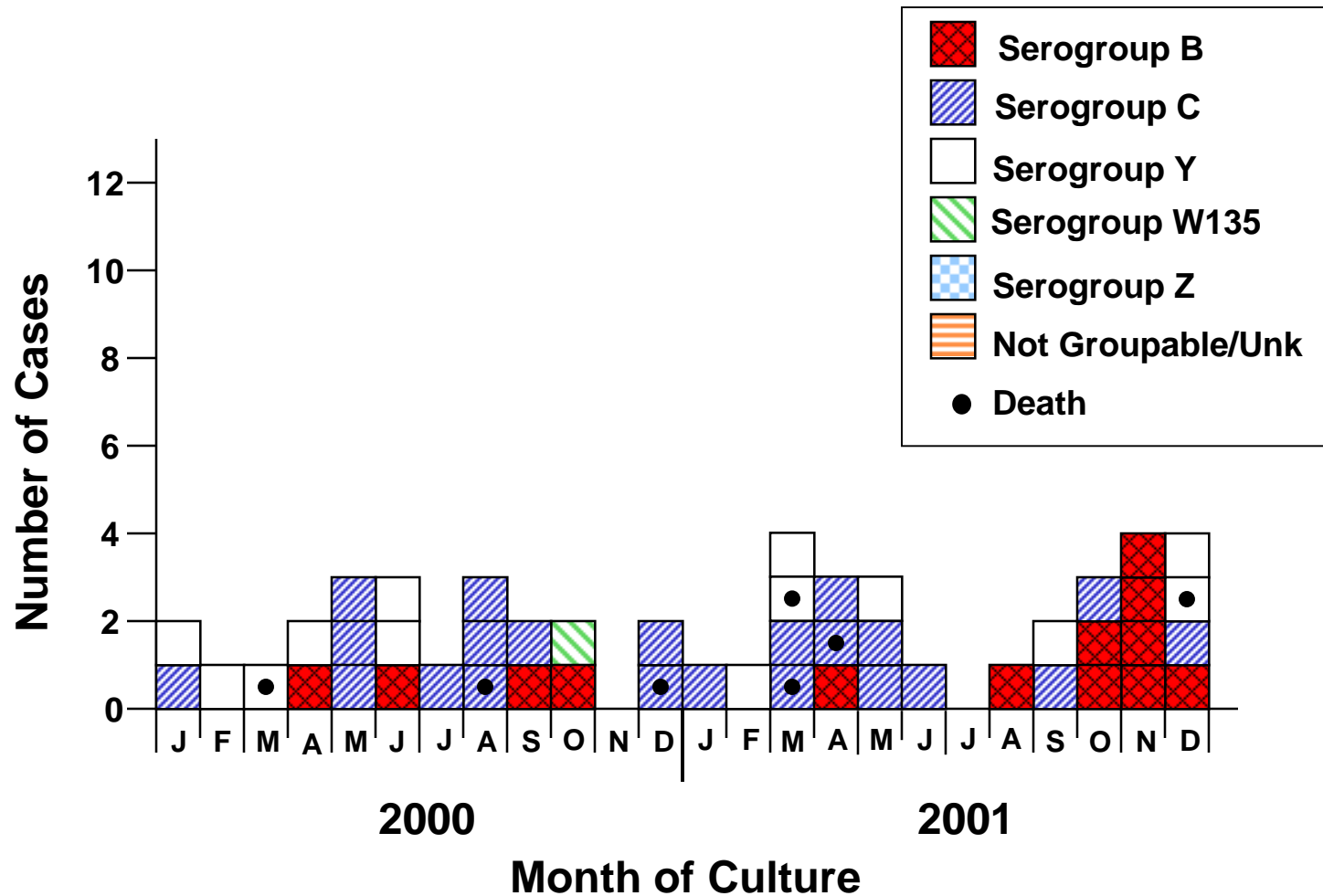


TABLE 3

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2000 - DECEMBER 31, 2001

	<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>		<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</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	31	(60)	27	(48)	Yes	39	(75)	44	(79)
<u>Greater Minnesota</u>	<u>21</u>	<u>(40)</u>	<u>29</u>	<u>(52)</u>	No	<u>13</u>	<u>(25)</u>	<u>12</u>	<u>(21)</u>
TOTAL	52	(100)	56	(100)	TOTAL	52	(100)	56	(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	(4)	3	(5)	Blood only	43	(83)	43	(77)
1-4	1	(2)	4	(7)	CSF only	4	(8)	4	(7)
5-9	2	(4)	3	(5)	Peritoneal	2	(4)	2	(4)
10-19	2	(4)	0	(0)	Joint	1	(2)	0	(0)
20-29	3	(6)	2	(4)	Amniotic fluid/Placenta	0	(0)	0	(0)
30-39	2	(4)	2	(4)	Pleural fluid/Lung	0	(0)	1	(2)
40-49	0	(0)	3	(5)	Surgical Aspirate	2	(4)	5	(9)
50-59	4	(8)	7	(13)	<u>Other</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(2)</u>
60-69	13	(25)	8	(14)	TOTAL	52	(100)	56	(100)
<u>70+</u>	<u>23</u>	<u>(44)</u>	<u>24</u>	<u>(43)</u>					
TOTAL	52	(100)	56	(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	25	(48)	28	(50)	Bacteremia	26	(50)	22	(39)
<u>Female</u>	<u>27</u>	<u>(52)</u>	<u>28</u>	<u>(50)</u>	Pneumonia	17	(33)	19	(34)
TOTAL	52	(100)	56	(100)	Meningitis	4	(8)	4	(7)
RACE					Cellulitis	0	(0)	1	(2)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritonitis	1	(2)	0	(0)
White	35	(67)	32	(57)	Epiglottitis	0	(0)	1	(2)
Black	1	(2)	2	(4)	Chorioamnionitis	0	(0)	0	(0)
American Indian/ Alaskan Native	0	(0)	2	(4)	Arthritis	0	(0)	0	(0)
Asian/Pacific Islander	4	(8)	3	(5)	Septic abortion	0	(0)	0	(0)
<u>Other/Unknown</u>	<u>12</u>	<u>(23)</u>	<u>17</u>	<u>(30)</u>	Sinusitis	1	(2)	1	(2)
TOTAL	52	(100)	56	(100)	<u>Other</u>	<u>3</u>	<u>(6)</u>	<u>8</u>	<u>(14)</u>
					TOTAL	52	(100)	56	(100)

TABLE 3 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2000 - DECEMBER 31, 2001

	<u>1/1/2000-</u> <u>12/31/2000</u>		<u>1/1/2001-</u> <u>12/31/2001</u>	
ISOLATE SEROTYPE				
<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
a	0	(0)	2	(4)
b	3	(6)	1	(2)
c	1	(2)	0	(0)
d	0	(0)	4	(7)
e	3	(6)	1	(2)
f	2	(4)	6	(11)
Non-typeable	28	(54)	23	(41)
<u>Missing</u>	<u>15</u>	<u>(29)</u>	<u>19</u>	<u>(34)</u>
TOTAL	52	(100)	56	(100)

SEROTYPE B (Hib) CASES BY AGE

<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	0	(0)	0	(0)
1-4	0	(0)	0	(0)
5-9	0	(0)	1	(100)
10-14	0	(0)	0	(0)
15-19	0	(0)	0	(0)
20-39	1	(33)	0	(0)
40-59	1	(33)	0	(0)
<u>60+</u>	<u>1</u>	<u>(33)</u>	<u>0</u>	<u>(0)</u>
TOTAL	3	(100)	1	(100)

Cases of *Haemophilus influenzae* Invasive Disease by Culture Date, Minnesota January 1, 2000 - December 31, 2001

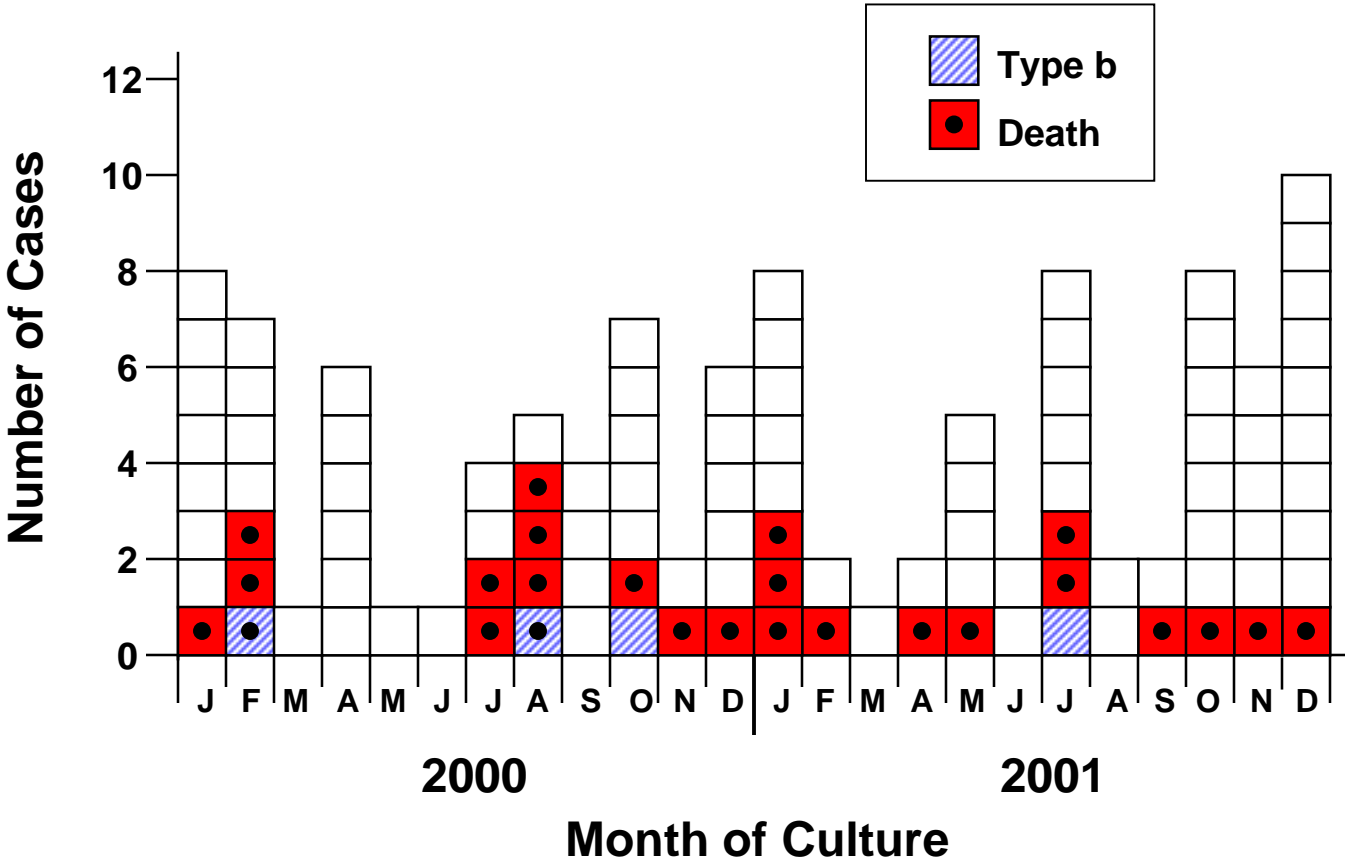


TABLE 4

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2000 - DECEMBER 31, 2001

	<u>1/1/00- 12/31/2000</u>		<u>1/1/01- 12/31/2001</u>		<u>1/1/00- 12/31/2000</u>		<u>1/1/01- 12/31/2001</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	96	(64)	118	(59)	Blood only	79	(53)	90	(45)
<u>Greater Minnesota</u>	<u>53</u>	<u>(36)</u>	<u>82</u>	<u>(41)</u>	CSF only	1	(1)	1	(1)
TOTAL	149	(100)	200	(100)	Blood and other	8	(5)	13	(7)
AGE				TYPE OF INFECTION					
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	2	(1)	5	(3)	Bacteremia only	32	(21)	37	(19)
1-4	11	(7)	8	(4)	Meningitis	2	(1)	2	(1)
5-9	8	(5)	13	(7)	Pneumonia only	13	(9)	16	(8)
10-19	7	(5)	9	(5)	Cellulitis only	32	(21)	47	(24)
20-29	9	(6)	17	(9)	Necrotizing fasciitis (NF) only	8	(5)	11	(6)
30-39	28	(19)	27	(14)	Peritonitis	2	(1)	2	(1)
40-49	17	(11)	36	(18)	Arthritis only	0	(0)	9	(5)
50-59	15	(10)	17	(9)	Osteomyelitis	3	(2)	7	(4)
60-69	14	(9)	17	(9)	Endometritis	0	(0)	1	(1)
<u>70+</u>	<u>38</u>	<u>(26)</u>	<u>51</u>	<u>(26)</u>	Abscess	13	(9)	11	(6)
TOTAL	149	(100)	200	(100)	Chorioamnionitis	1	(1)	0	(0)
GENDER				STREPTOCOCCAL TOXIC SHOCK SYNDROME					
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Shock Syndrome	5	(3)	1	(1)
Male	90	(60)	109	(55)	Pneumonia + other	5	(3)	4	(2)
<u>Female</u>	<u>59</u>	<u>(40)</u>	<u>91</u>	<u>(46)</u>	Necrotizing fasciitis + other	5	(3)	6	(3)
TOTAL	149	(100)	200	(100)	Cellulitis + other	10	(7)	8	(4)
RACE				ABSCESS + OTHER					
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Abscess + other	3	(2)	1	(1)
White	86	(58)	118	(59)	Other	15	(10)	37	(19)
Black	17	(11)	13	(7)	TOTAL	149	(100)	200	(100)
American Indian/ Alaskan Native	7	(5)	12	(6)					
Asian/Pacific Islander	5	(3)	5	(3)					
<u>Other/Unknown</u>	<u>34</u>	<u>(23)</u>	<u>52</u>	<u>(26)</u>					
TOTAL	149	(100)	200	(100)					

TABLE 4 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2000 - DECEMBER 31, 2001

	<u>1/1/00-</u> <u>12/31/2000</u>		<u>1/1/01-</u> <u>12/31/2001</u>	
	OUTCOME			
<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Yes	136	(91)	185	(93)
No	13	(9)	15	(8)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	149	(100)	200	(100)

TYPE OF INFECTION
RESULTING IN DEATH

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Bacteremia	3	(23)	4	(27)
Meningitis	1	(8)	0	(0)
Necrotizing fasciitis	0	(0)	3	(20)
Pneumonia	2	(15)	2	(13)
Abscess	1	(8)	0	(0)
STSS	1	(8)	0	(0)
Cellulitis	1	(8)	2	(13)
Peritonitis	0	(0)	0	(0)
Septic Arthritis	0	(0)	1	(7)
Pneumonia + Cellulitis	0	(0)	1	(7)
NF + Cellulitis	0	(0)	1	(7)
Pneumonia + STSS	2	(15)	0	(0)
NF + STSS	1	(8)	1	(7)
<u>Cellulitis + STSS</u>	<u>1</u>	<u>(8)</u>	<u>0</u>	<u>(0)</u>
TOTAL	13	(100)	15	(100)

Cases of Invasive Group A Streptococcal Disease by Date of Culture, Minnesota January 1, 2000 – December 31, 2001

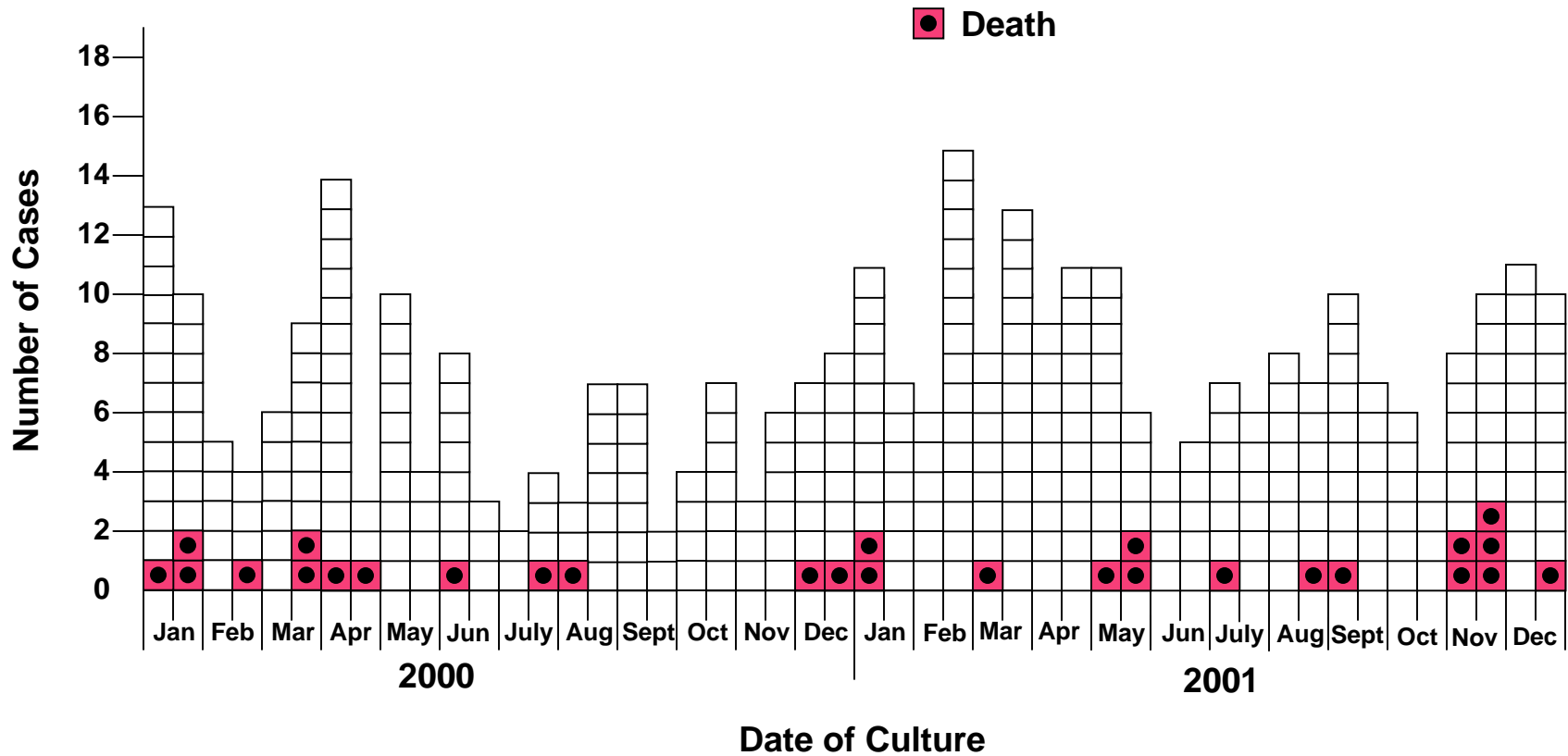


TABLE 5

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2000 - DECEMBER 31, 2001

	<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>		<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</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	(60)	143	(52)	Yes	277	(94)	254	(93)
<u>Greater Minnesota</u>	<u>119</u>	<u>(40)</u>	<u>130</u>	<u>(48)</u>	<u>No</u>	<u>17</u>	<u>(6)</u>	<u>19</u>	<u>(7)</u>
TOTAL	294	(100)	273	(100)	TOTAL	294	(100)	273	(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	33	(11)	22	(8)	Blood only	219	(74)	196	(72)
7-90 days	23	(8)	17	(6)	CSF only	5	(2)	11	(4)
91 days-11 mos.	1	(<1)	6	(2)	Blood and CSF	5	(2)	2	(1)
1-9	1	(<1)	3	(1)	Pleural	1	(<1)	2	(1)
10-19	2	(1)	5	(2)	Joint	15	(5)	23	(8)
20-29	22	(7)	14	(5)	Placenta	9	(3)	6	(2)
30-39	19	(6)	20	(7)	Surgical Specimen	15	(5)	15	(5)
40-49	32	(11)	35	(13)	Peritoneal	11	(4)	6	(2)
50-59	35	(12)	41	(15)	Bone	10	(3)	12	(4)
60-69	52	(18)	33	(12)	<u>Other</u>	<u>4</u>	<u>(1)</u>	<u>0</u>	<u>(0)</u>
<u>70+</u>	<u>74</u>	<u>(25)</u>	<u>77</u>	<u>(28)</u>	TOTAL	294	(100)	273	(100)
TOTAL	294	(100)	273	(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	143	(49)	155	(57)	Bacteremia	154	(52)	118	(43)
<u>Female</u>	<u>151</u>	<u>(51)</u>	<u>118</u>	<u>(43)</u>	Meningitis	12	(4)	15	(5)
TOTAL	294	(100)	273	(100)	Pneumonia	17	(6)	14	(5)
					Cellulitis	29	(10)	34	(12)
					Arthritis	11	(4)	22	(8)
					Osteomyelitis	13	(4)	16	(6)
					Abscess	12	(4)	9	(3)
					Necrotizing fasciitis	4	(1)	1	(0)
					Peritonitis	8	(3)	5	(2)
					Septic abortion or stillbirth	12	(4)	6	(2)
					<u>Other</u>	<u>22</u>	<u>(7)</u>	<u>33</u>	<u>(12)</u>
					TOTAL	294	(100)	273	(100)
RACE									
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>					
White	180	(61)	174	(64)					
Black	19	(6)	18	(7)					
American Indian/ Alaskan Native	5	(2)	6	(2)					
Asian/Pacific Islander	0	(0)	7	(3)					
<u>Other/Unknown</u>	<u>90</u>	<u>(31)</u>	<u>68</u>	<u>(25)</u>					
TOTAL	294	(100)	273	(100)					

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2000 - DECEMBER 31, 2001

	EARLY ONSET CASES*				LATE ONSET CASES*			
	<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>		<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</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	16	(48)	14	(64)	14	(61)	9	(53)
Greater Minnesota	17	(52)	8	(36)	9	(39)	8	(47)
TOTAL	33	(100)	22	(100)	23	(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	13	(39)	12	(55)	13	(57)	11	(65)
Female	20	(61)	10	(45)	10	(43)	6	(35)
TOTAL	33	(100)	22	(100)	23	(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	28	(85)	14	(64)	14	(61)	7	(41)
Black	1	(3)	1	(5)	4	(17)	8	(47)
American Indian/ Alaskan Native	1	(3)	0	(0)	0	(0)	0	(0)
Asian/Pacific Islander	0	(0)	3	(14)	0	(0)	1	(6)
Unknown	3	(9)	4	(18)	5	(22)	1	(6)
TOTAL	33	(100)	22	(100)	23	(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	33	(100)	19	(86)	21	(91)	15	(88)
No	0	(0)	3	(14)	2	(9)	2	(12)
TOTAL	33	(100)	22	(100)	23	(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	29	(88)	18	(82)	16	(70)	9	(53)
Meningitis	1	(3)	2	(9)	7	(30)	5	(29)
Pneumonia	2	(6)	1	(5)	0	(0)	0	(0)
Other	1	(3)	1	(5)	0	(0)	3	(18)
TOTAL	33	(100)	22	(100)	23	(100)	17	(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, 2000 - DECEMBER 31, 2001

<u>Type of Case*</u>	<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>	
	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Maternal case with miscarriage/ stillbirth	10	(3)	8	(3)
Other maternal case	5	(2)	6	(2)
Infant case - early onset	33	(11)	22	(8)
Infant case - late onset	23	(8)	17	(6)
<u>Not pregnant/postpartum/infant case</u>	<u>223</u>	<u>(76)</u>	<u>220</u>	<u>(81)</u>
TOTAL	294	(100)	273	(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	4	(27)	3	(21)
Septic abortion/ stillbirth	10	(67)	7	(50)
Meningitis	1	(7)	1	(7)
Chorioamnionitis	0	(0)	2	(14)
<u>Abscess</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(7)</u>
TOTAL	15	(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	4	(27)	3	(21)
Survived, clinical infection	1	(7)	2	(14)
Live birth, neonatal death-GBS related	0	(0)	1	(7)
Miscarriage/stillbirth-likely <u>GBS-related</u>	<u>10</u>	<u>(67)</u>	<u>8</u>	<u>(57)</u>
TOTAL	15	(100)	14	(100)

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2000 - DECEMBER 31, 2001

1/1/2000-
12/31/2000 1/1/2001-
12/31/2001

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)
Amniotic fluid	0	(0)	1	(13)
Placenta only	10	(100)	6	(75)
<u>Autopsy only</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(13)</u>
TOTAL	10	(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	1	(10)	3	(38)
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+	1	(10)	0	(0)
<u>Unknown</u>	<u>8</u>	<u>(80)</u>	<u>5</u>	<u>(63)</u>
TOTAL	10	(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	(6)	2	(9)
28-32	1	(3)	2	(9)
33-34	1	(3)	0	(0)
35-36	1	(3)	0	(0)
37+	28	(85)	18	(82)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	33	(100)	22	(100)

BIRTH WEIGHT OF EARLY ONSET CASES

<u>Weight (grams)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1000	2	(6)	2	(9)
1000-1999	0	(0)	2	(9)
2000-2999	7	(21)	1	(5)
≥3000+	24	(73)	17	(77)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	33	(100)	22	(100)

Cases of Group B Streptococcal Disease by Date Cultured, Minnesota January 1, 2000 – December 31, 2001

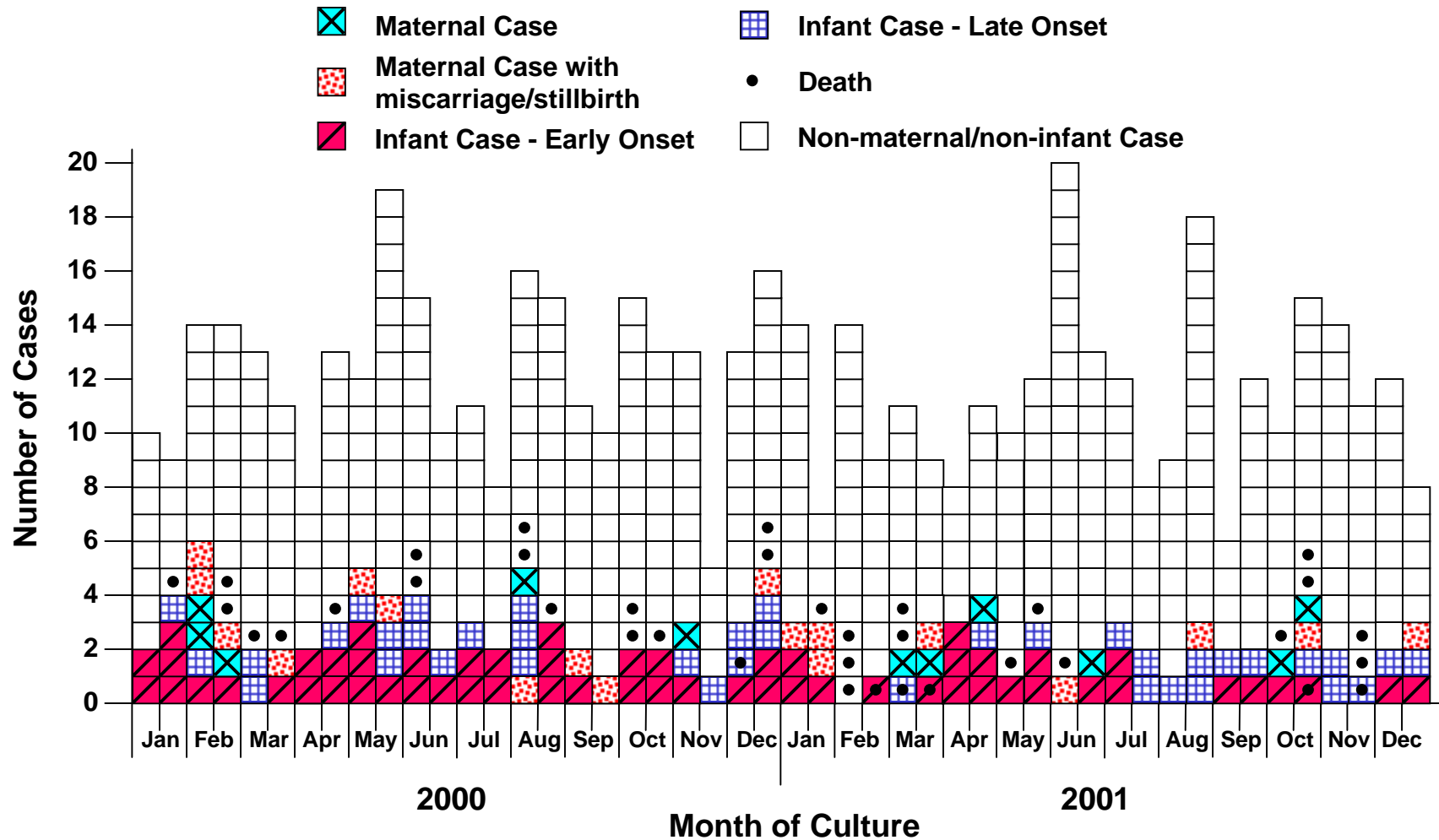


TABLE 6

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2000 - DECEMBER 31, 2001,
 TWIN CITIES METRO AREA ONLY

	<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>		<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>		
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	45	(10)	23	(7)	Blood only	413	(94)	306	(90)
1	63	(14)	24	(7)	Blood and CSF	7	(2)	1	(<1)
2-4	32	(7)	34	(10)	CSF only	4	(1)	11	(3)
5-9	9	(2)	10	(3)	Blood and Pleural	2	(<1)	1	(0)
10-19	9	(2)	15	(4)	Pleural	5	(1)	10	(3)
20-29	16	(4)	12	(4)	Joint only	2	(<1)	4	(1)
30-39	27	(6)	23	(7)	Blood and Peritoneal	0	(0)	0	(0)
40-49	53	(12)	43	(13)	Peritoneal only	0	(0)	1	(0)
50-59	36	(8)	32	(9)	<u>Surgical aspirate</u>	<u>6</u>	<u>(1)</u>	<u>5</u>	<u>(1)</u>
60-69	40	(9)	37	(11)	TOTAL	439	(100)	339	(100)
<u>70+</u>	<u>109</u>	<u>(25)</u>	<u>86</u>	<u>(25)</u>					
TOTAL	439	(100)	339	(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	245	(56)	180	(53)	without focus	168	(38)	125	(37)
Female	194	(44)	159	(47)	Pneumonia	213	(49)	172	(51)
TOTAL	439	(100)	339	(100)	Meningitis	21	(5)	17	(5)
					Otitis	9	(2)	8	(2)
RACE					Cellulitis	4	(1)	2	(<1)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritonitis	0	(0)	0	(<1)
White	268	(61)	200	(59)	Arthritis	2	(<1)	3	(1)
Black	43	(10)	32	(9)	Endocarditis	0	(0)	0	(0)
American Indian/ Alaskan Native	15	(3)	3	(<1)	Pericarditis	0	(0)	0	(0)
Asian/Pacific Islander	15	(3)	10	(3)	<u>Other/Unknown</u>	<u>22</u>	<u>(5)</u>	<u>12</u>	<u>(4)</u>
<u>Other/Unknown</u>	<u>98</u>	<u>(22)</u>	<u>94</u>	<u>(28)</u>	TOTAL	439	(100)	339	(100)
TOTAL	439	(100)	339	(100)					
					PENICILLIN SUSCEPTIBILITY				
OUTCOME					<u>Susceptibility</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Susceptible (MIC ≤ 0.06)	302	(69)	235	(69)
Yes	408	(93)	309	(91)	Intermediate (MIC = 0.12 - 1.0)	41	(9)	21	(6)
No	31	(7)	30	(9)	Resistant (MIC ≥ 2.0)	68	(15)	48	(14)
TOTAL	439	(100)	339	(100)	<u>Unknown</u>	<u>28</u>	<u>(6)</u>	<u>35</u>	<u>(10)</u>
					TOTAL	439	(100)	339	(100)

TABLE 6 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2000 - DECEMBER 31, 2001,
TWIN CITIES METRO AREA ONLY

PENICILLIN NON-SUSCEPTIBILITY* BY AGE

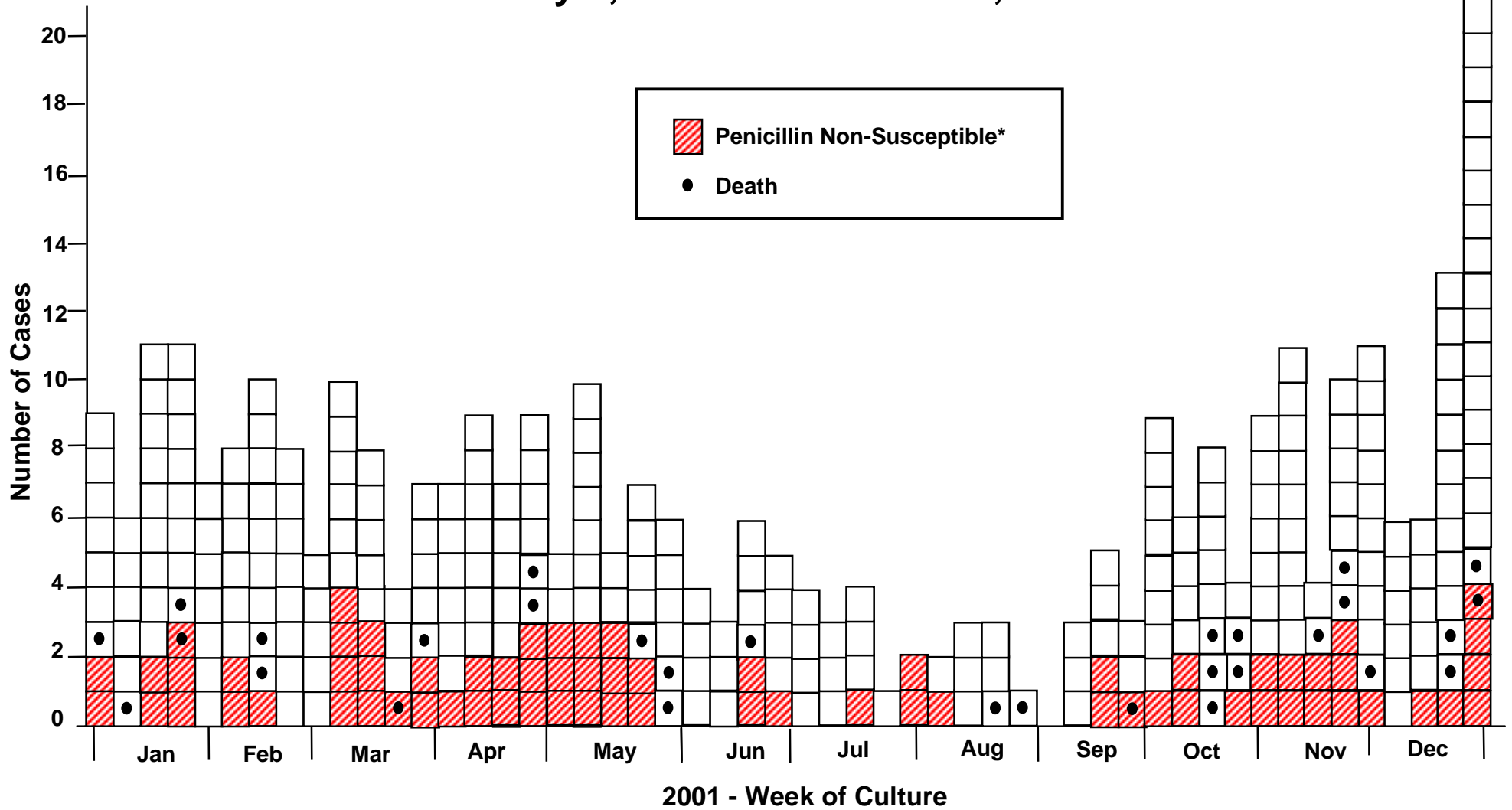
<u>Age (Years)</u>	<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>	
	<u>Non-Susceptible Total</u>	<u>(%)</u>	<u>Non-Susceptible Total</u>	<u>(%)</u>
<1	24 / 45	(53)	7 / 23	(30)
1	15 / 63	(24)	5 / 24	(21)
2-4	7 / 32	(22)	8 / 34	(24)
5-9	2 / 9	(22)	0 / 10	(0)
10-19	1 / 9	(11)	3 / 15	(20)
20-29	4 / 16	(25)	3 / 12	(25)
30-39	8 / 27	(30)	4 / 23	(17)
40-49	7 / 53	(13)	3 / 43	(7)
50-59	6 / 36	(17)	5 / 32	(16)
60-69	6 / 40	(15)	11 / 37	(30)
<u>70+</u>	<u>29 / 109</u>	<u>(27)</u>	<u>20 / 86</u>	<u>(23)</u>
TOTAL	109 / 439	(25)	69 / 339	(20)

PENICILLIN NON-SUSCEPTIBILITY* BY TYPE OF INFECTION

<u>Type</u>	<u>1/1/2000- 12/31/2000</u>		<u>1/1/2001- 12/31/2001</u>	
	<u>Non-Susceptible Total</u>	<u>(%)</u>	<u>Non-Susceptible Total</u>	<u>(%)</u>
Bacteremia	49 / 168	(29)	24 / 125	(19)
Pneumonia	43 / 213	(20)	32 / 172	(19)
Meningitis	7 / 21	(33)	8 / 17	(47)
<u>Other/Unknown</u>	<u>10 / 37</u>	<u>(27)</u>	<u>5 / 25</u>	<u>(20)</u>
TOTAL	109 / 439	(25)	69 / 339	(20)

*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, 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, 2000 - December 31, 2000

