

**MINNESOTA DEPARTMENT OF HEALTH
EMERGING INFECTIONS PROGRAM**

**REPORTED CASES OF INVASIVE BACTERIAL DISEASE
JANUARY 1, 2005 - DECEMBER 31, 2006**

<u>PATHOGEN</u>	<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</u>			
	<u>No.</u>	<u>Rate per 100,000*</u>	<u>No.</u>	<u>Rate per 100,000*</u>		
<i>Neisseria meningitidis</i>		16	0.31		15	0.29
Serogroup B	6			5		
Serogroup C	5			4		
Serogroup Y	5			6		
Serogroup W135	0			0		
Serogroup X	0			0		
Not groupable	0			0		
Reported but isolate not available	0			0		
<i>Haemophilus influenzae</i>		53	1.03		98	1.91
type a	2			3		
type b	1			4		
type c	0			2		
type d	0			0		
type e	1			7		
type f	13			23		
Non-typeable	30			47		
Reported but isolate not available	6			12		
Group A streptococcus		122	2.38		171	3.33
Group B streptococcus		334	6.51		361	7.03
<i>Streptococcus pneumoniae</i>		596	11.61		635	12.37

*Annual rate using population estimates from the U.S. Bureau of the Census 2005

Note: Active surveillance for these pathogens began April 1, 1995. Previous reports have summarized data for 4/1/95-12/31/04. 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, 2005 - DECEMBER 31, 2006

	<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</u>		<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</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	11	(69)	6	(40)	Yes	15	(94)	12	(80)
Greater Minnesota	<u>5</u>	<u>(31)</u>	<u>9</u>	<u>(60)</u>	No	<u>1</u>	<u>(6)</u>	<u>3</u>	<u>(20)</u>
TOTAL	16	(100)	15	(100)	TOTAL	16	(100)	15	(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	(13)	1	(7)	Blood	11	(69)	13	(87)
1-4	4	(25)	1	(7)	CSF	5	(31)	2	(13)
5-9	1	(6)	0	(0)	Other	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
10-19	1	(6)	4	(27)	TOTAL	16	(100)	15	(100)
20-29	2	(13)	2	(13)					
30-39	2	(13)	1	(7)					
40-49	1	(6)	1	(7)					
50-59	0	(0)	2	(13)					
<u>60+</u>	<u>3</u>	<u>(19)</u>	<u>3</u>	<u>(20)</u>					
TOTAL	16	(100)	15	(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	5	(31)	7	(47)	Bacteremia	10	(63)	7	(47)
Female	<u>11</u>	<u>(69)</u>	<u>8</u>	<u>(53)</u>	Meningitis	6	(38)	7	(47)
TOTAL	16	(100)	15	(100)	Pneumonia	0	(0)	1	(7)
					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	16	(100)	15	(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	10	(63)	12	(80)	B	6	(38)	5	(33)
Black Only	0	(0)	1	(7)	C	5	(31)	4	(27)
American Indian/ Alaskan Native Only	0	(0)	0	(0)	Y	5	(31)	6	(40)
Asian/Pacific Isl. Only	0	(0)	0	(0)	W135	0	(0)	0	(0)
More than 1 Race	0	(0)	0	(0)	X	0	(0)	0	(0)
Other Only	0	(0)	0	(0)	Not groupable	0	(0)	0	(0)
<u>Unknown</u>	<u>6</u>	<u>(38)</u>	<u>2</u>	<u>(13)</u>	<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	16	(100)	15	(100)	TOTAL	16	(100)	15	(100)

Cases of *Neisseria meningitidis* Invasive Disease by Culture Date, Minnesota January 1, 2005 – December 31, 2006

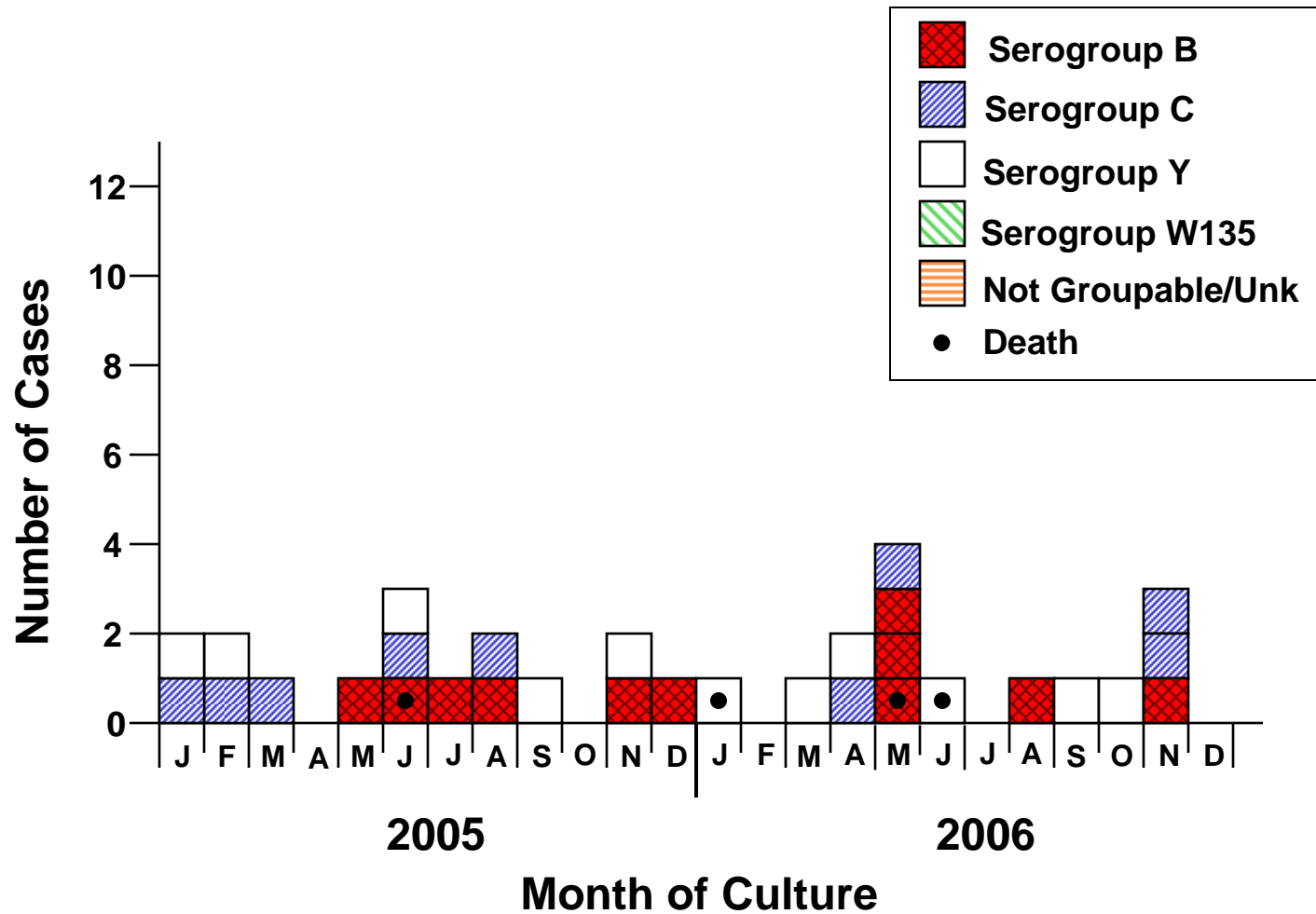


TABLE 3

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2005 - DECEMBER 31, 2006

	<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</u>		<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</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	22	(42)	56	(57)	Yes	48	(91)	86	(88)
<u>Greater Minnesota</u>	<u>31</u>	<u>(58)</u>	<u>42</u>	<u>(43)</u>	<u>No</u>	<u>5</u>	<u>(9)</u>	<u>12</u>	<u>(12)</u>
TOTAL	53	(100)	98	(100)	TOTAL	53	(100)	98	(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	6	(11)	11	(11)	Blood	49	(92)	80	(82)
1-4	0	(0)	5	(5)	CSF	2	(4)	10	(10)
5-9	2	(4)	2	(2)	Peritoneal	1	(2)	2	(2)
10-19	1	(2)	3	(3)	Joint	0	(0)	4	(4)
20-29	3	(6)	5	(5)	Pleural fluid	0	(0)	2	(2)
30-39	3	(6)	4	(4)	<u>Other</u>	<u>1</u>	<u>(2)</u>	<u>0</u>	<u>(0)</u>
40-49	6	(11)	7	(7)	TOTAL	53	(100)	98	(100)
50-59	5	(9)	15	(15)					
60-69	10	(19)	13	(13)					
<u>70+</u>	<u>17</u>	<u>(32)</u>	<u>33</u>	<u>(34)</u>					
TOTAL	53	(100)	98	(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	(36)	40	(41)	Bacteremia	20	(38)	39	(40)
<u>Female</u>	<u>34</u>	<u>(64)</u>	<u>58</u>	<u>(59)</u>	Pneumonia	20	(38)	38	(39)
TOTAL	53	(100)	98	(100)	Meningitis	2	(4)	10	(10)
RACE					Cellulitis	1	(2)	1	(1)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritonitis	1	(2)	2	(2)
White Only	26	(49)	48	(49)	Epiglottitis	1	(2)	0	(0)
Black Only	2	(4)	6	(6)	Chorioamnionitis	0	(0)	0	(0)
American Indian/ Alaskan Native Only	1	(2)	1	(1)	Arthritis	3	(6)	4	(4)
Asian/Pacific Isl. Only	0	(0)	2	(2)	Sinusitis	2	(4)	0	(0)
More than 1 Race	3	(6)	3	(3)	<u>Other</u>	<u>3</u>	<u>(6)</u>	<u>4</u>	<u>(4)</u>
Other Only	0	(0)	1	(1)	TOTAL	53	(100)	98	(100)
<u>Unknown</u>	<u>21</u>	<u>(40)</u>	<u>37</u>	<u>(38)</u>					
TOTAL	53	(100)	98	(100)					

TABLE 3 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2005 - DECEMBER 31, 2006

1/1/2005-
12/31/2005 1/1/2006-
12/31/2006

ISOLATE SEROTYPE

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
a	2	(4)	3	(3)
b	1	(2)	4	(5)
c	0	(0)	2	(2)
d	0	(0)	0	(0)
e	1	(2)	7	(8)
f	13	(28)	23	(27)
<u>Non-typeable</u>	<u>30</u>	<u>(64)</u>	<u>47</u>	<u>(55)</u>
TOTAL	47	(100)	86	(100)
	<u>No.</u>	<u>(%)*</u>	<u>No.</u>	<u>(%)*</u>
Not Tested	6	(11)	12	(23)

SEROTYPE B (Hib) CASES BY AGE

<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	0	(0)	1	(25)
1-4	0	(0)	1	(25)
5-9	0	(0)	0	(0)
10-14	0	(0)	0	(0)
15-19	0	(0)	0	(0)
20-39	1	(100)	0	(0)
40-59	0	(0)	0	(0)
<u>60+</u>	<u>0</u>	<u>(0)</u>	<u>2</u>	<u>(50)</u>
TOTAL	1	(100)	4	(100)

*of total cases

Cases of *Haemophilus influenzae* Invasive Disease by Culture Date, Minnesota January 1, 2005 – December 31, 2006

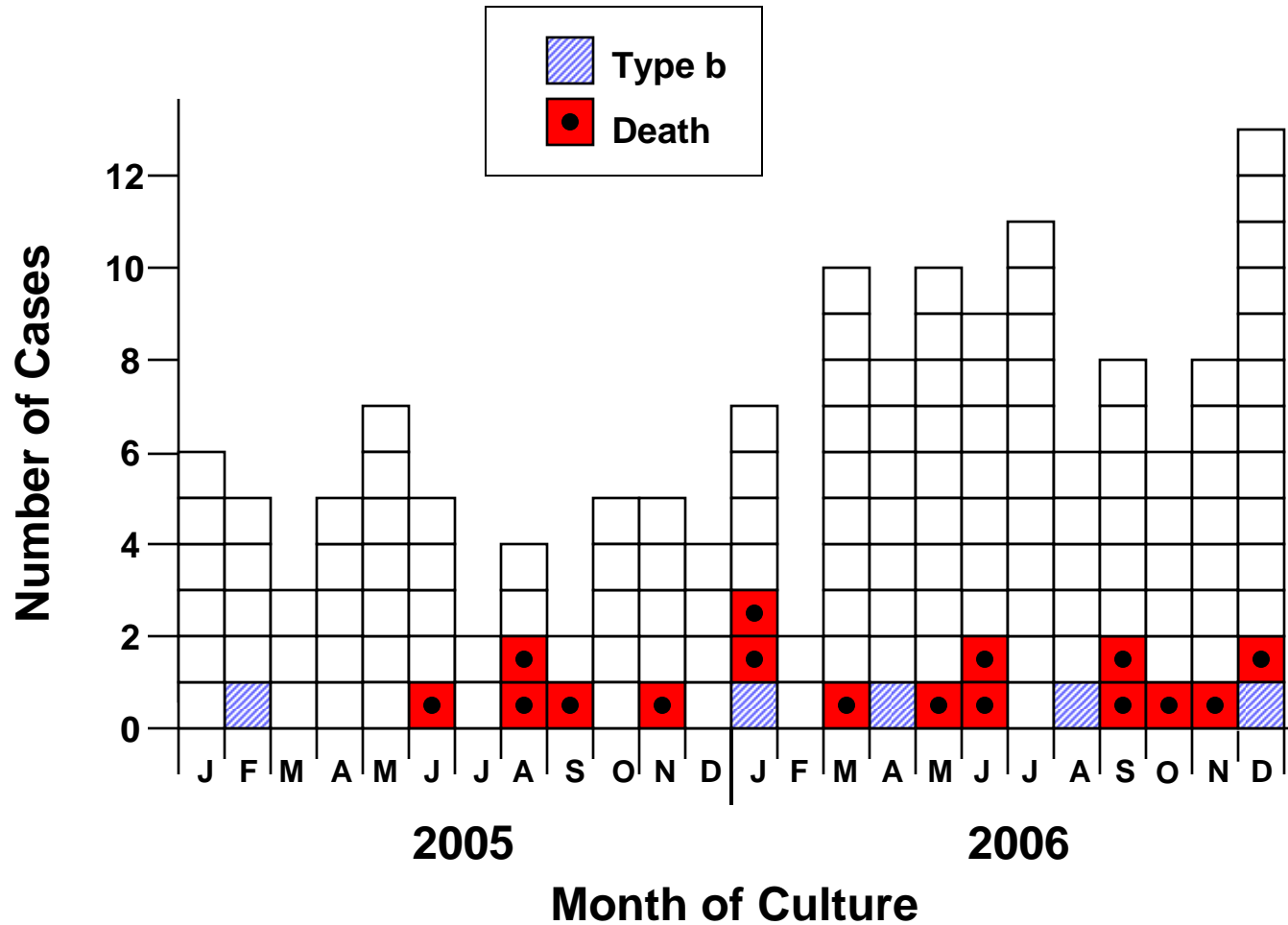


TABLE 4

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2005 - DECEMBER 31, 2006

	<u>1/1/2005-</u> <u>12/31/2005</u>		<u>1/1/2006-</u> <u>12/31/2006</u>		<u>1/1/2005-</u> <u>12/31/2005</u>		<u>1/1/2006-</u> <u>12/31/2006</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	62	(51)	80	(47)	Blood only	73	(60)	102	(60)
<u>Greater Minnesota</u>	<u>60</u>	<u>(49)</u>	<u>91</u>	<u>(53)</u>	CSF only	0	(0)	1	(1)
TOTAL	122	(100)	171	(100)	Blood and other	11	(9)	32	(19)
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	4	(3)	2	(1)	Bacteremia only	36	(30)	59	(35)
1-4	7	(6)	9	(5)	Meningitis	0	(0)	4	(2)
5-9	7	(6)	12	(7)	Pneumonia only	12	(10)	22	(13)
10-19	3	(2)	8	(5)	Cellulitis only	33	(27)	28	(16)
20-29	8	(7)	10	(6)	Necrotizing fasciitis (NF) only	4	(3)	5	(3)
30-39	16	(13)	13	(8)	Peritonitis	1	(1)	0	(0)
40-49	13	(11)	23	(13)	Arthritis only	5	(4)	5	(3)
50-59	14	(11)	22	(13)	Osteomyelitis	2	(2)	2	(1)
60-69	18	(15)	21	(12)	Endometritis	0	(0)	1	(1)
<u>70+</u>	<u>32</u>	<u>(26)</u>	<u>51</u>	<u>(30)</u>	Abscess	4	(3)	3	(2)
TOTAL	122	(100)	171	(100)	Empyema	1	(1)	1	(1)
GENDER				RACE					
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Male	64	(52)	82	(48)	White	85	(70)	116	(68)
<u>Female</u>	<u>58</u>	<u>(48)</u>	<u>89</u>	<u>(52)</u>	Black	5	(4)	4	(2)
TOTAL	122	(100)	171	(100)	American Indian/ Alaskan Native	2	(2)	3	(2)
RACE				Other/Unknown (1)					
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>Other/Unknown (1)</u>	<u>10</u>	<u>(8)</u>	<u>19</u>	<u>(11)</u>
White	85	(70)	116	(68)	TOTAL	122	(100)	171	(100)
Black	5	(4)	4	(2)					
American Indian/ Alaskan Native	2	(2)	3	(2)					
Asian/Pacific Islander	1	(1)	3	(2)					
More than One Race	1	(1)	0	(0)					
<u>Unknown</u>	<u>28</u>	<u>(23)</u>	<u>45</u>	<u>(26)</u>					
TOTAL	122	100	171	100					

TABLE 4 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2005 - DECEMBER 31, 2006

	<u>1/1/2005-</u> <u>12/31/2005</u>		<u>1/1/2006-</u> <u>12/31/2006</u>	
	OUTCOME			
<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Yes	113	(93)	154	(90)
No	9	(7)	17	(10)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	122	(100)	171	(100)

TYPE OF INFECTION
RESULTING IN DEATH

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Bacteremia	5	(56)	6	(35)
Meningitis	0	(0)	2	(12)
Necrotizing fasciitis	0	(0)	1	(6)
Pneumonia	1	(11)	5	(29)
Cellulitis	3	(33)	2	(12)
<u>Petechia/Vasculitis</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(6)</u>
TOTAL	9	(100)	17	(100)

Cases of Invasive Group A Streptococcal Disease by Date of Culture, Minnesota January 1, 2005 – December 31, 2006

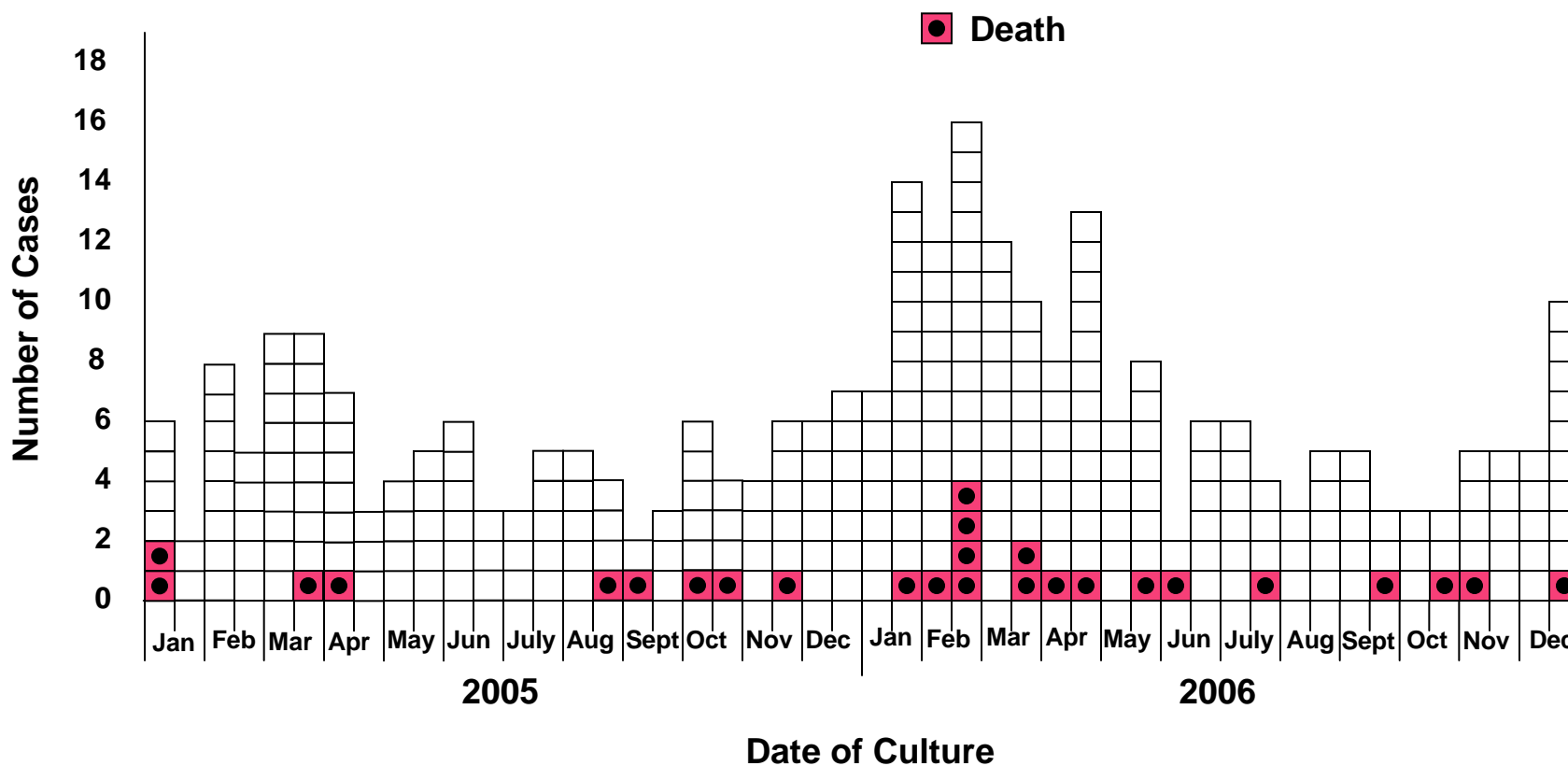


TABLE 5

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2005 - DECEMBER 31, 2006

		<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</u>				<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</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	190	(57)	206	(57)	Yes	312	(93)	343	(95)		
<u>Greater Minnesota</u>	<u>144</u>	<u>(43)</u>	<u>155</u>	<u>(43)</u>	No	22	(7)	18	(5)		
TOTAL	334	(100)	361	(100)	<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>		
					TOTAL	334	(100)	361	(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	15	(4)	25	(7)	Blood only	249	(75)	283	(78)		
7-90 days	17	(5)	21	(6)	CSF only	9	(3)	5	(1)		
91 days-11 mos.	0	(0)	3	(1)	Blood and CSF	0	(0)	0	(0)		
1-9	1	(0)	2	(1)	Pleural	2	(1)	2	(1)		
10-19	7	(2)	2	(1)	Joint	35	(10)	31	(9)		
20-29	14	(4)	15	(4)	Placenta	5	(1)	9	(2)		
30-39	18	(5)	19	(5)	Amniotic fluid	3	(1)	0	(0)		
40-49	31	(9)	40	(11)	Surgical Specimen	0	(0)	0	(0)		
50-59	68	(20)	47	(13)	Internal body site	0	(0)	1	(0)		
60-69	64	(19)	59	(16)	Peritoneal	4	(1)	9	(2)		
<u>70+</u>	<u>99</u>	<u>(30)</u>	<u>128</u>	<u>(35)</u>	Bone	27	(8)	20	(6)		
TOTAL	334	(100)	361	(100)	<u>Other</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(0)</u>		
					TOTAL	334	(100)	361	(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	180	(54)	188	(52)	Bacteremia	142	(43)	196	(54)		
<u>Female</u>	<u>154</u>	<u>(46)</u>	<u>173</u>	<u>(48)</u>	Meningitis	13	(4)	7	(2)		
TOTAL	334	(100)	361	(100)	Pneumonia	24	(7)	25	(7)		
					Cellulitis	56	(17)	53	(15)		
					Arthritis	30	(9)	19	(5)		
					Osteomyelitis	22	(7)	21	(6)		
					Abscess	11	(3)	11	(3)		
					Necrotizing fasciitis	1	(0)	1	(0)		
					Peritonitis	5	(1)	10	(3)		
					Septic abortion or stillbirth	9	(3)	7	(2)		
					<u>Other</u>	<u>21</u>	<u>(6)</u>	<u>11</u>	<u>(3)</u>		
					TOTAL	334	(100)	361	(100)		
RACE											
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>							
White	211	(63)	193	(53)							
Black	21	(6)	25	(7)							
Amer Indian/Alas Native	2	(1)	5	(1)							
Asian/Pacific Islander	5	(1)	9	(2)							
More than 1 race	4	(1)	2	(1)							
<u>Other/Unknown</u>	<u>91</u>	<u>(27)</u>	<u>127</u>	<u>(35)</u>							
TOTAL	334	(100)	361	(100)							

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2005 - DECEMBER 31, 2006

	EARLY ONSET CASES*				LATE ONSET CASES*			
	<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</u>		<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</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	11	(73)	17	(68)	12	(71)	10	(48)
Greater Minnesota	4	(27)	8	(32)	5	(29)	11	(52)
TOTAL	15	(100)	25	(100)	17	(100)	21	(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	(73)	13	(52)	8	(47)	10	(48)
Female	4	(27)	12	(48)	9	(53)	11	(52)
TOTAL	15	(100)	25	(100)	17	(100)	21	(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	9	(60)	13	(52)	9	(53)	9	(43)
Black	2	(13)	5	(20)	5	(29)	5	(24)
American Indian/ Alaskan Native	0	(0)	1	(4)	0	(0)	1	(5)
More than 1 race	2	(13)	2	(8)	0	(0)	0	(0)
Asian/Pacific Islander	2	(13)	1	(4)	2	(12)	0	(0)
Other/Unknown	0	(0)	3	(12)	1	(6)	6	(29)
TOTAL	15	(100)	25	(100)	17	(100)	21	(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	13	(87)	24	(96)	17	(100)	20	(95)
No	2	(13)	1	(4)	0	(0)	1	(5)
Unknown	0	(0)	0	(0)	0	(0)	0	(0)
TOTAL	15	(100)	25	(100)	17	(100)	21	(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	9	(60)	22	(88)	8	(47)	17	(81)
Meningitis	4	(27)	1	(4)	7	(41)	2	(10)
Pneumonia	1	(7)	1	(4)	0	(0)	0	(0)
Other	1	(7)	1	(4)	2	(12)	2	(10)
TOTAL	15	(100)	25	(100)	17	(100)	21	(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, 2005 - DECEMBER 31, 2006

	<u>1/1/2005-</u> <u>12/31/2005</u>		<u>1/1/2006-</u> <u>6/30/2006</u>	
TYPE OF CASE				
<u>Type of Case*</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Maternal case with miscarriage/stillbirth	7	(2)	10	(3)
Other maternal case	5	(1)	3	(1)
Infant case - early onset	15	(4)	25	(7)
Infant case - late onset	17	(5)	21	(6)
<u>Not pregnant/postpartum/infant case</u>	<u>290</u>	<u>(87)</u>	<u>302</u>	<u>(84)</u>
TOTAL	334	(100)	361	(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	2	(17)	3	(23)
Septic abortion/ stillbirth	7	(58)	7	(54)
Meningitis	0	(0)	0	(0)
Chorioamnionitis	1	(8)	0	(0)
Abscess	0	(0)	0	(0)
Pyelonephritis	0	(0)	1	(8)
Peritonitis	0	(0)	1	(8)
Endometritis	2	(17)	0	(0)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(8)</u>
TOTAL	12	(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	4	(33)	2	(15)
Survived, clinical infection	1	(8)	0	(0)
Live birth, neonatal death-GBS related	0	(0)	0	(0)
Miscarriage/stillbirth-likely GBS-related	7	(58)	10	(77)
<u>Induced abortion</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(8)</u>
TOTAL	12	(100)	13	(100)

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2005 - DECEMBER 31, 2006

1/1/2005-
12/31/2005 1/1/2006-
12/31/2006

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	0	(0)	0	(0)
Amniotic fluid	3	(43)	0	(0)
Placenta only	4	(57)	9	(90)
Peritoneal	0	(0)	1	(10)
<u>Autopsy only</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	7	(100)	10	(100)

GESTATIONAL AGE OF EARLY ONSET CASES

<u>Age (weeks)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<28	2	(13)	4	(16)
28-32	2	(13)	1	(4)
33-34	0	(0)	0	(0)
35-36	1	(7)	1	(4)
37+	10	(67)	19	(76)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	15	(100)	25	(100)

BIRTH WEIGHT OF EARLY ONSET CASES

<u>Weight (grams)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1000	2	(13)	0	(0)
1000-1999	2	(13)	0	(0)
2000-2999	2	(13)	4	(16)
≥3000+	9	(60)	20	(80)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(4)</u>
TOTAL	15	(100)	25	(100)

Cases of Group B Streptococcal Disease by Date Cultured, Minnesota January 1, 2005 – December 31, 2006

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

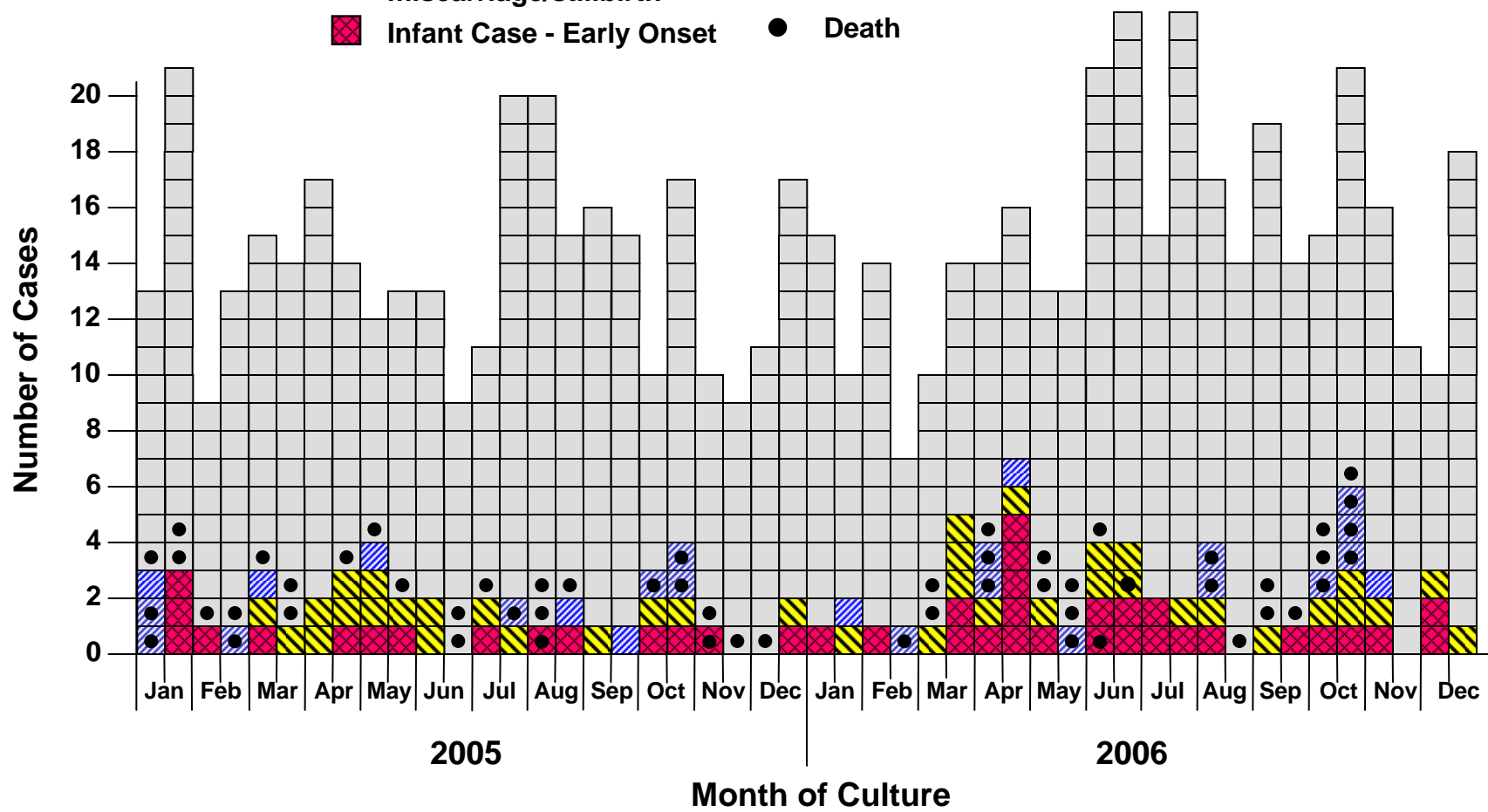


TABLE 6

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2005 - DECEMBER 31, 2006

	1/1/2005- 12/31/2005		1/1/2006- 12/31/2006		1/1/2005- 12/31/2005		1/1/2006- 12/31/2006		
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	313	(53)	312	(49)	Yes	552	(93)	565	(89)
Greater Minnesota	283	(47)	323	(51)	No	44	(7)	70	(11)
TOTAL	596	(100)	635	(100)	TOTAL	596	(7)	635	(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	28	(5)	22	(3)	Blood Only	553	(93)	594	(94)
1	24	(4)	32	(5)	Blood and CSF	1	(<1)	0	(0)
2-4	29	(5)	21	(3)	CSF Only	19	(3)	21	(3)
5-17	25	(4)	43	(7)	Pericardial Fluid	1	(<1)	1	(<1)
18-34	36	(6)	35	(6)	Pleural	9	(2)	12	(2)
35-49	76	(13)	86	(14)	Joint	6	(1)	3	(0)
50-64	134	(22)	146	(23)	Peritoneal	2	(<1)	0	(<1)
65-79	111	(19)	124	(20)	Other	5	(<1)	4	(<1)
80+	133	(22)	126	(20)	TOTAL	596	(100)	635	(100)
TOTAL	596	(100)	635	(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	313	(53)	327	(51)	Bacteremia				
Female	283	(47)	308	(49)	without focus	210	(35)	196	(31)
TOTAL	596	(100)	635	(100)	Pneumonia	319	(54)	357	(56)
RACE					Meningitis	30	(5)	32	(5)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Otitis	5	(<1)	8	(1)
White Only	350	(59)	376	(59)	Cellulitis	7	(1)	5	(1)
Black Only	46	(8)	41	(6)	Other	25	(4)	37	(6)
American Indian/ Alaskan Native Only	11	(<1)	16	(3)	TOTAL	596	(100)	635	(100)
Asian/Pacific Isl. Only	5	(<1)	10	(2)	PENICILLIN SUSCEPTIBILITY				
More than 1 Race	2	(<1)	7	(<1)	<u>Susceptibility</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Unknown	182	(31)	185	(29)	Susceptible (MIC ≤ 0.06)	411	(77)	466	(81)
TOTAL	596	(100)	635	(100)	Intermediate	75	(14)	66	(11)
					(MIC = 0.12 - 1.0)				
					<u>Resistant (MIC > 2.0)</u>	46	(9)	46	(8)
					TOTAL	532	(100)	578	(100)
						<u>No.</u>	<u>(%)*</u>	<u>No.</u>	<u>(%)*</u>
					Not Tested	64	(11)	57	(9)

* of total cases

TABLE 6 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE WITH SUSCEPTIBILITY TESTING COMPLETED,
JANUARY 1, 2005 - DECEMBER 31, 2006

PENICILLIN NON-SUSCEPTIBILITY* BY AGE

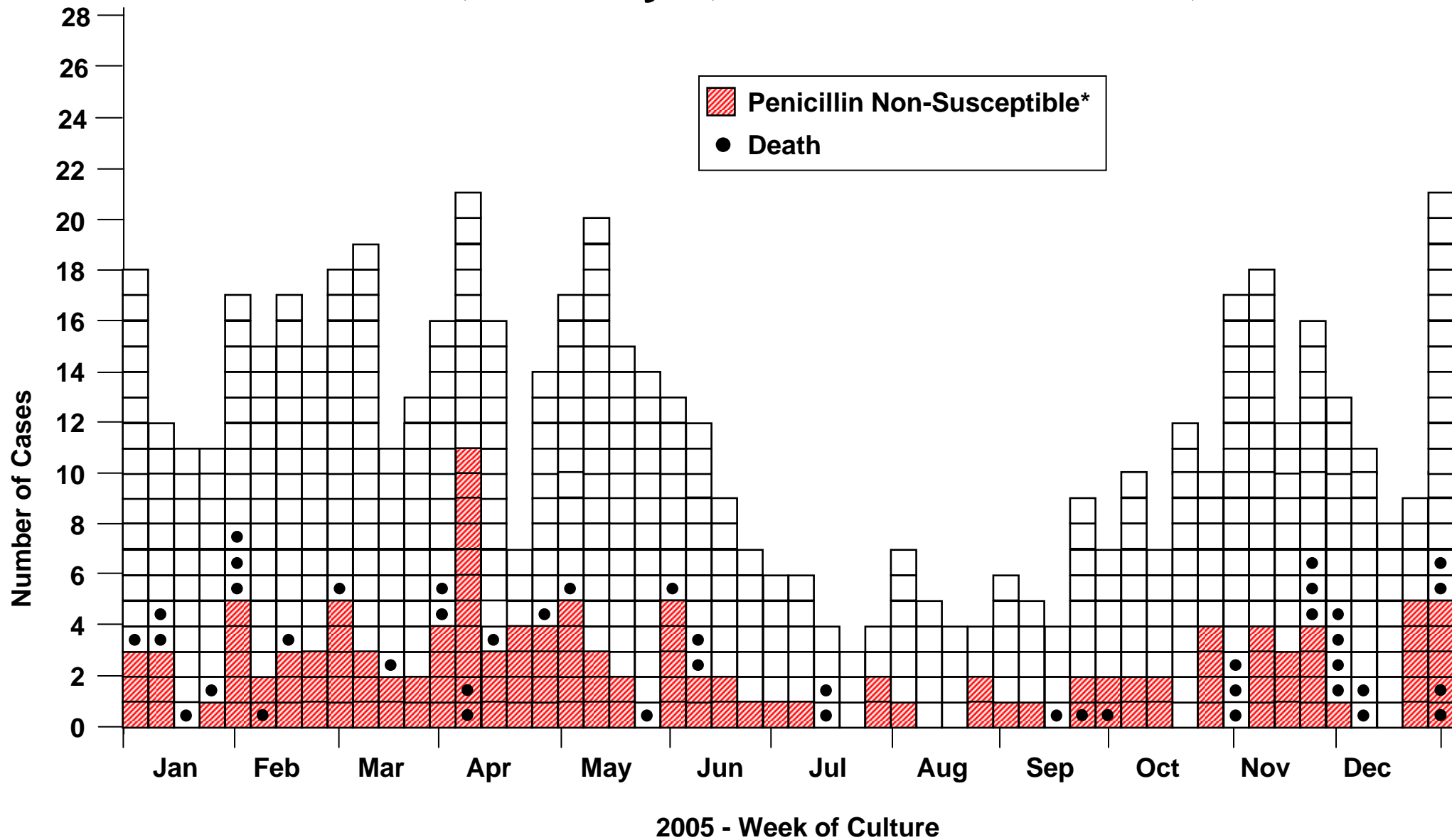
<u>Age (Years)</u>	<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</u>	
	<u>Non-Susceptible Total</u>	<u>(%)</u>	<u>Non-Susceptible Total</u>	<u>(%)</u>
<1	4 / 26	(15)	4 / 21	(19)
1	5 / 24	(21)	6 / 30	(20)
2-4	9 / 29	(31)	6 / 19	(32)
5-17	4 / 22	(18)	6 / 41	(15)
18-34	6 / 32	(19)	5 / 31	(16)
35-49	9 / 71	(13)	15 / 82	(18)
50-64	28 / 123	(23)	23 / 133	(17)
65-79	25 / 90	(28)	18 / 107	(17)
80+	31 / 115	(27)	29 / 114	(25)
TOTAL	121 / 532	(23)	112 / 578	(19)

PENICILLIN NON-SUSCEPTIBILITY* BY TYPE OF INFECTION

<u>Type</u>	<u>1/1/2005- 12/31/2005</u>		<u>1/1/2006- 12/31/2006</u>	
	<u>Non-Susceptible Total</u>	<u>(%)</u>	<u>Non-Susceptible Total</u>	<u>(%)</u>
Bacteremia	37 / 184	(20)	41 / 182	(23)
Pneumonia	71 / 286	(25)	58 / 323	(18)
Meningitis	7 / 29	(24)	5 / 29	(17)
<u>Other/Unknown</u>	<u>6 / 33</u>	<u>(18)</u>	<u>8 / 44</u>	<u>(18)</u>
TOTAL	121 / 532	(23)	112 / 578	(19)

*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



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

