

**MINNESOTA DEPARTMENT OF HEALTH
EMERGING INFECTIONS PROGRAM**

**REPORTED CASES OF INVASIVE BACTERIAL DISEASE
JANUARY 1, 2006 - DECEMBER 31, 2007**

<u>PATHOGEN</u>	<u>1/1/2006- 12/31/2006</u>		<u>1/1/2007- 12/31/2007</u>	
	<u>No.</u>	<u>Rate per 100,000*</u>	<u>No.</u>	<u>Rate per 100,000*</u>
<i>Neisseria meningitidis</i>	15	0.29	22	0.43
Serogroup B	5		6	
Serogroup C	4		9	
Serogroup Y	6		6	
Serogroup W135	0		0	
Serogroup X	0		0	
Not groupable	0		1	
Reported but isolate not available	0		0	
<i>Haemophilus influenzae</i>	98	1.90	82	1.59
type a	3		4	
type b	4		1	
type c	2		1	
type d	0		2	
type e	7		4	
type f	23		8	
Non-typeable	47		53	
Reported but isolate not available	12		9	
Group A streptococcus	171	3.31	173	3.35
Group B streptococcus	361	6.99	331	6.41
<i>Streptococcus pneumoniae</i>	635	12.29	664	12.85

*Annual rate using population estimates from the U.S. Bureau of the Census 2006

Note: Active surveillance for these pathogens began April 1, 1995. Previous reports have summarized data for 4/1/95-12/31/05. 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



Minnesota Department of Health - Infectious Disease Epidemiology, Prevention and Control Division

651-201-5414 - TDD/TTY 651-201-5797 - www.health.state.mn.us

TABLE 2

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
NEISSERIA MENINGITIDIS, JANUARY 1, 2006 - DECEMBER 31, 2007

	<u>1/1/2006- 12/31/2006</u>		<u>1/1/2007- 12/31/2007</u>		<u>1/1/2006- 12/31/2006</u>		<u>1/1/2007- 12/31/2007</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	6	(40)	11	(50)	Yes	12	(80)	21	(95)
Greater Minnesota	9	(60)	11	(50)	No	3	(20)	1	(5)
TOTAL	15	(100)	22	(100)	TOTAL	15	(100)	22	(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	1	(7)	0	(0)	Blood	13	(87)	11	(50)
1-4	1	(7)	5	(23)	CSF	2	(13)	11	(50)
5-9	0	(0)	1	(5)	Other	0	(0)	0	(0)
10-19	4	(27)	5	(23)	TOTAL	15	(100)	22	(100)
20-29	2	(13)	6	(27)					
30-39	1	(7)	2	(9)					
40-49	1	(7)	1	(5)					
50-59	2	(13)	0	(0)					
60+	3	(20)	2	(9)					
TOTAL	15	(100)	22	(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	7	(47)	10	(45)	Bacteremia	7	(47)	6	(27)
Female	8	(53)	12	(55)	Meningitis	7	(47)	16	(73)
TOTAL	15	(100)	22	(100)	Pneumonia	1	(7)	0	(0)
					Septic arthritis	0	(0)	0	(0)
					Pericarditis	0	(0)	0	(0)
					Otitis	0	(0)	0	(0)
					Other	0	(0)	0	(0)
					TOTAL	15	(100)	22	(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	(80)	11	(50)	B	5	(33)	6	(27)
Black Only	1	(7)	2	(9)	C	4	(27)	9	(41)
American Indian/ Alaskan Native Only	0	(0)	0	(0)	Y	6	(40)	6	(27)
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)	1	(5)
Unknown	2	(13)	9	(41)	Unknown	0	(0)	0	(0)
TOTAL	15	(100)	22	(100)	TOTAL	15	(100)	22	(100)

Cases of *Neisseria meningitidis* Invasive Disease by Culture Date, Minnesota January 1, 2006 – December 31, 2007

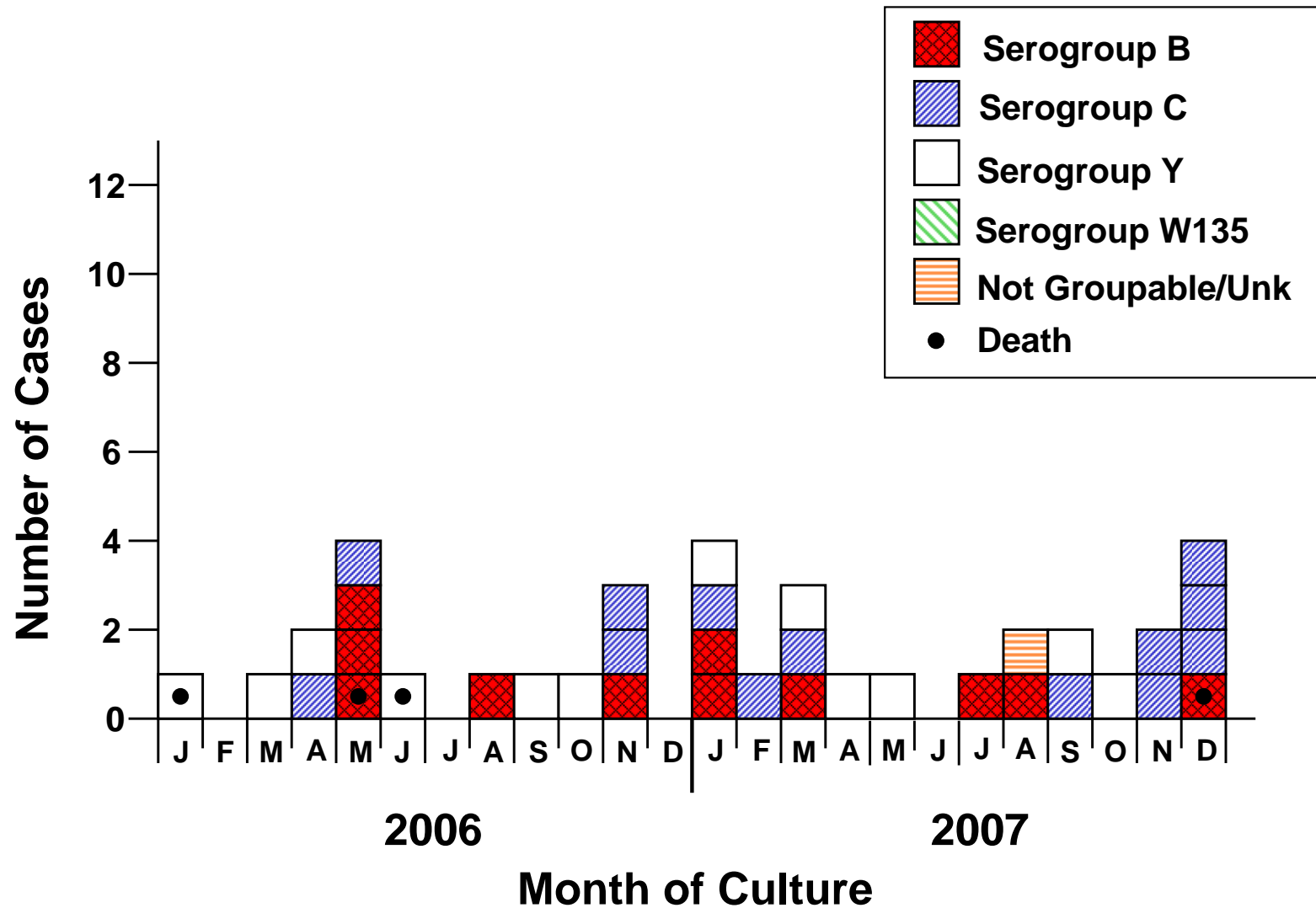


TABLE 3

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2006 - DECEMBER 31, 2007

	<u>1/1/2006- 12/31/2006</u>		<u>1/1/2007- 12/31/2007</u>			<u>1/1/2006- 12/31/2006</u>		<u>1/1/2007- 12/31/2007</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	56	(57)	41	(50)	Yes	86	(88)	73	(89)
<u>Greater Minnesota</u>	<u>42</u>	<u>(43)</u>	<u>41</u>	<u>(50)</u>	<u>No</u>	<u>12</u>	<u>(12)</u>	<u>9</u>	<u>(11)</u>
TOTAL	98	(100)	82	(100)	TOTAL	98	(100)	82	(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	11	(11)	6	(7)	Blood	80	(82)	75	(91)
1-4	5	(5)	6	(7)	CSF	10	(10)	5	(6)
5-9	2	(2)	0	(0)	Peritoneal	2	(2)	0	(0)
10-19	3	(3)	1	(1)	Joint	4	(4)	0	(0)
20-29	5	(5)	1	(1)	Pleural fluid	2	(2)	1	(1)
30-39	4	(4)	2	(2)	<u>Other</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(1)</u>
40-49	7	(7)	4	(5)	TOTAL	98	(100)	82	(100)
50-59	15	(15)	11	(13)					
60-69	13	(13)	14	(17)					
<u>70+</u>	<u>33</u>	<u>(34)</u>	<u>37</u>	<u>(45)</u>					
TOTAL	98	(100)	82	(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	40	(41)	43	(52)	Bacteremia	39	(40)	36	(44)
<u>Female</u>	<u>58</u>	<u>(59)</u>	<u>39</u>	<u>(48)</u>	Pneumonia	38	(39)	37	(45)
TOTAL	98	(100)	82	(100)	Meningitis	10	(10)	5	(6)
RACE					Cellulitis	1	(1)	0	(0)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritonitis	2	(2)	0	(0)
White Only	48	(49)	53	(65)	Epiglottitis	0	(0)	1	(1)
Black Only	6	(6)	3	(4)	Chorioamnionitis	0	(0)	0	(0)
American Indian/ Alaskan Native Only	1	(1)	1	(1)	Arthritis	4	(4)	0	(0)
Asian/Pacific Isl. Only	2	(2)	0	(0)	Sinusitis	0	(0)	0	(0)
More than 1 Race	3	(3)	1	(1)	<u>Other</u>	<u>4</u>	<u>(4)</u>	<u>3</u>	<u>(4)</u>
Other Only	1	(1)	0	(0)	TOTAL	98	(100)	82	(100)
<u>Unknown</u>	<u>37</u>	<u>(38)</u>	<u>24</u>	<u>(29)</u>					
TOTAL	98	(100)	82	(100)					

TABLE 3 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
HAEMOPHILUS INFLUENZAE, JANUARY 1, 2006 - DECEMBER 31, 2007

1/1/2006-
12/31/2006 1/1/2007-
12/31/2007

ISOLATE SEROTYPE

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
a	3	(3)	4	(5)
b	4	(5)	1	(1)
c	2	(2)	1	(1)
d	0	(0)	2	(3)
e	7	(8)	4	(5)
f	23	(27)	8	(11)
<u>Non-typeable</u>	<u>47</u>	<u>(55)</u>	<u>53</u>	<u>(73)</u>
TOTAL	86	(100)	73	(100)
	<u>No.</u>	<u>(%)*</u>	<u>No.</u>	<u>(%)*</u>
Not Tested	21	(38)	9	(17)

SEROTYPE B (Hib) CASES BY AGE

<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1	1	(25)	0	(0)
1-4	1	(25)	1	(100)
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	0	(0)	0	(0)
<u>60+</u>	<u>2</u>	<u>(50)</u>	<u>0</u>	<u>(0)</u>
TOTAL	4	(100)	1	(100)

*of total cases

Cases of *Haemophilus influenzae* Invasive Disease by Culture Date, Minnesota January 1, 2006 – December 31, 2007

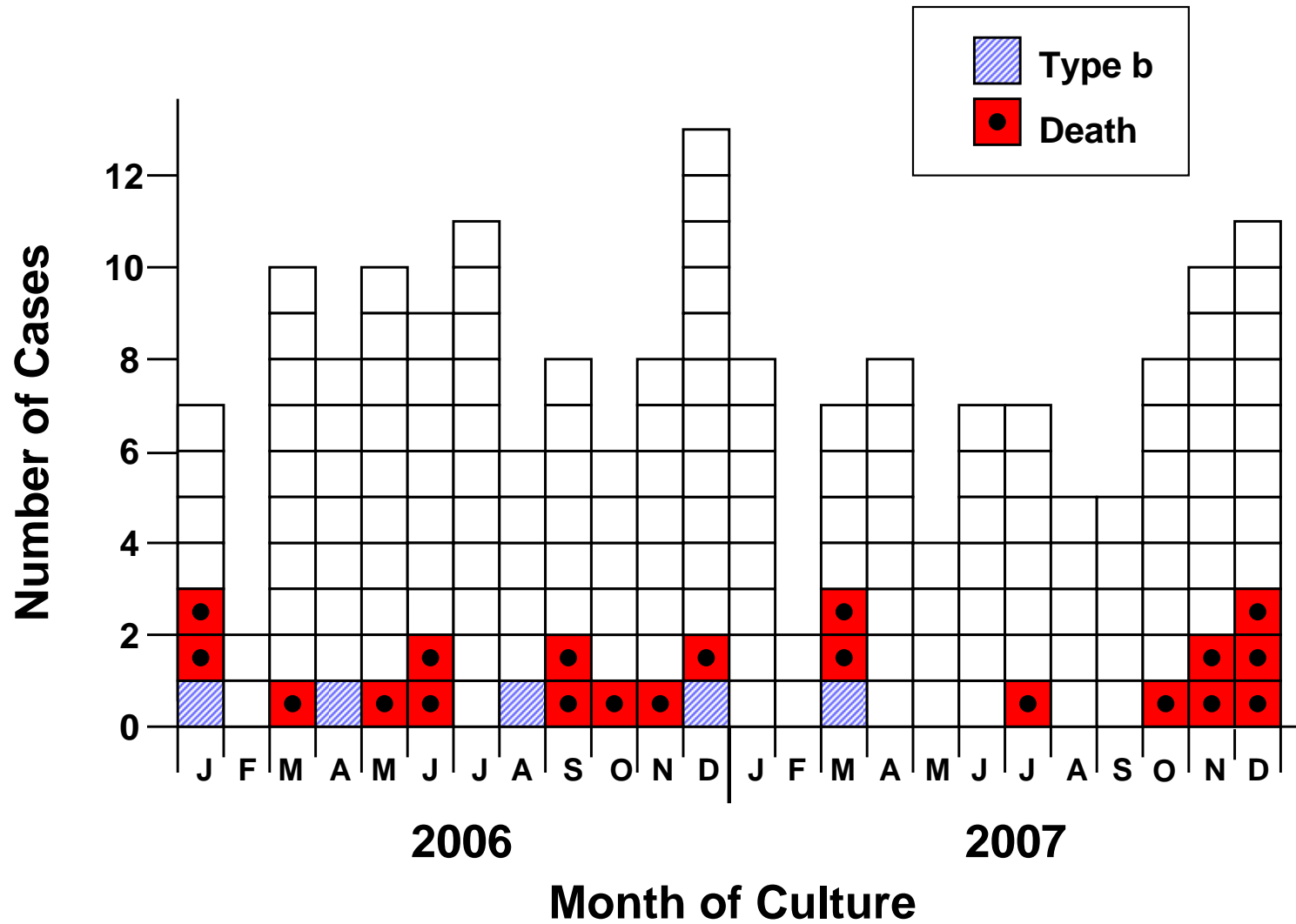


TABLE 4

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2006 - DECEMBER 31, 2007

	<u>1/1/2006-</u> <u>12/31/2006</u>		<u>1/1/2007-</u> <u>12/31/2007</u>		<u>1/1/2006-</u> <u>12/31/2006</u>		<u>1/1/2007-</u> <u>12/31/2007</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	80	(47)	94	(54)	Blood only	102	(60)	105	(61)
<u>Greater Minnesota</u>	<u>91</u>	<u>(53)</u>	<u>79</u>	<u>(46)</u>	CSF only	1	(1)	2	(1)
TOTAL	171	(100)	173	(100)	Blood and other	32	(19)	25	(14)
AGE					Joint	14	(8)	11	(6)
<u>Age (Years)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Peritoneal	1	(1)	2	(1)
<1	2	(1)	7	(4)	Pericardial	0	(0)	0	(0)
1-4	9	(5)	8	(5)	Pleural	10	(6)	6	(3)
5-9	12	(7)	10	(6)	Middle ear	0	(0)	0	(0)
10-19	8	(5)	9	(5)	Bone	2	(1)	4	(2)
20-29	10	(6)	11	(6)	Muscle	1	(1)	2	(1)
30-39	13	(8)	12	(7)	Internal Body Site	3	(2)	4	(2)
40-49	23	(13)	26	(15)	<u>Other sterile site</u>	<u>5</u>	<u>(3)</u>	<u>12</u>	<u>(7)</u>
50-59	22	(13)	27	(16)	TOTAL	171	(100)	173	(100)
60-69	21	(12)	24	(14)	TYPE OF INFECTION				
<u>70+</u>	<u>51</u>	<u>(30)</u>	<u>39</u>	<u>(23)</u>	<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
TOTAL	171	(100)	173	(100)	Bacteremia only	59	(35)	59	(34)
GENDER					Meningitis	4	(2)	1	(1)
<u>Gender</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Pneumonia only	22	(13)	16	(9)
Male	82	(48)	84	(49)	Cellulitis only	28	(16)	27	(16)
<u>Female</u>	<u>89</u>	<u>(52)</u>	<u>89</u>	<u>(51)</u>	Necrotizing fasciitis				
TOTAL	171	(100)	173	(100)	(NF) only	5	(3)	10	(6)
RACE					Otitis	0	(0)	1	(1)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Arthritis only	5	(3)	10	(6)
White	116	(68)	113	(65)	Osteomyelitis	2	(1)	5	(3)
Black	4	(2)	7	(4)	Endometritis	1	(1)	2	(1)
American Indian/ Alaskan Native	3	(2)	4	(2)	Abscess	3	(2)	5	(3)
Asian/Pacific Islander	3	(2)	3	(2)	Empyema/Peritonitis	1	(1)	2	(1)
More than One Race	0	(0)	0	(0)	Endocarditis	1	(1)	0	(0)
<u>Unknown</u>	<u>45</u>	<u>(26)</u>	<u>46</u>	<u>(27)</u>	STSS	0	(0)	0	(0)
TOTAL	171	100	173	100	Pneumonia + other	4	(2)	6	(3)
					NF + other	6	(4)	4	(2)
					Cellulitis + other	10	(6)	11	(6)
					Abscess + other	1	(1)	2	(1)
					<u>Other/Unknown (2)</u>	<u>19</u>	<u>(11)</u>	<u>12</u>	<u>(7)</u>
					TOTAL	171	(100)	173	(100)

TABLE 4 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP A STREPTOCOCCUS, JANUARY 1, 2006 - DECEMBER 31, 2007

	<u>1/1/2006-</u> <u>12/31/2006</u>		<u>1/1/2007-</u> <u>12/31/2007</u>	
	OUTCOME			
<u>Survived</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Yes	154	(90)	157	(91)
No	17	(10)	16	(9)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	171	(100)	173	(100)

TYPE OF INFECTION
RESULTING IN DEATH

<u>Type</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Bacteremia	6	(35)	8	(50)
Meningitis	2	(12)	0	(0)
Necrotizing fasciitis	1	(6)	2	(13)
Pneumonia	5	(29)	2	(13)
Cellulitis	2	(12)	0	(0)
Peritonitis	0	(0)	1	(6)
Pneumonia/Cellulitis	0	(0)	1	(6)
Petechia/Vasculitis	1	(6)	0	(0)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>2</u>	<u>(13)</u>
TOTAL	17	(100)	16	(100)

Cases of Invasive Group A Streptococcal Disease by Date of Culture, Minnesota January 1, 2006 – December 31, 2007

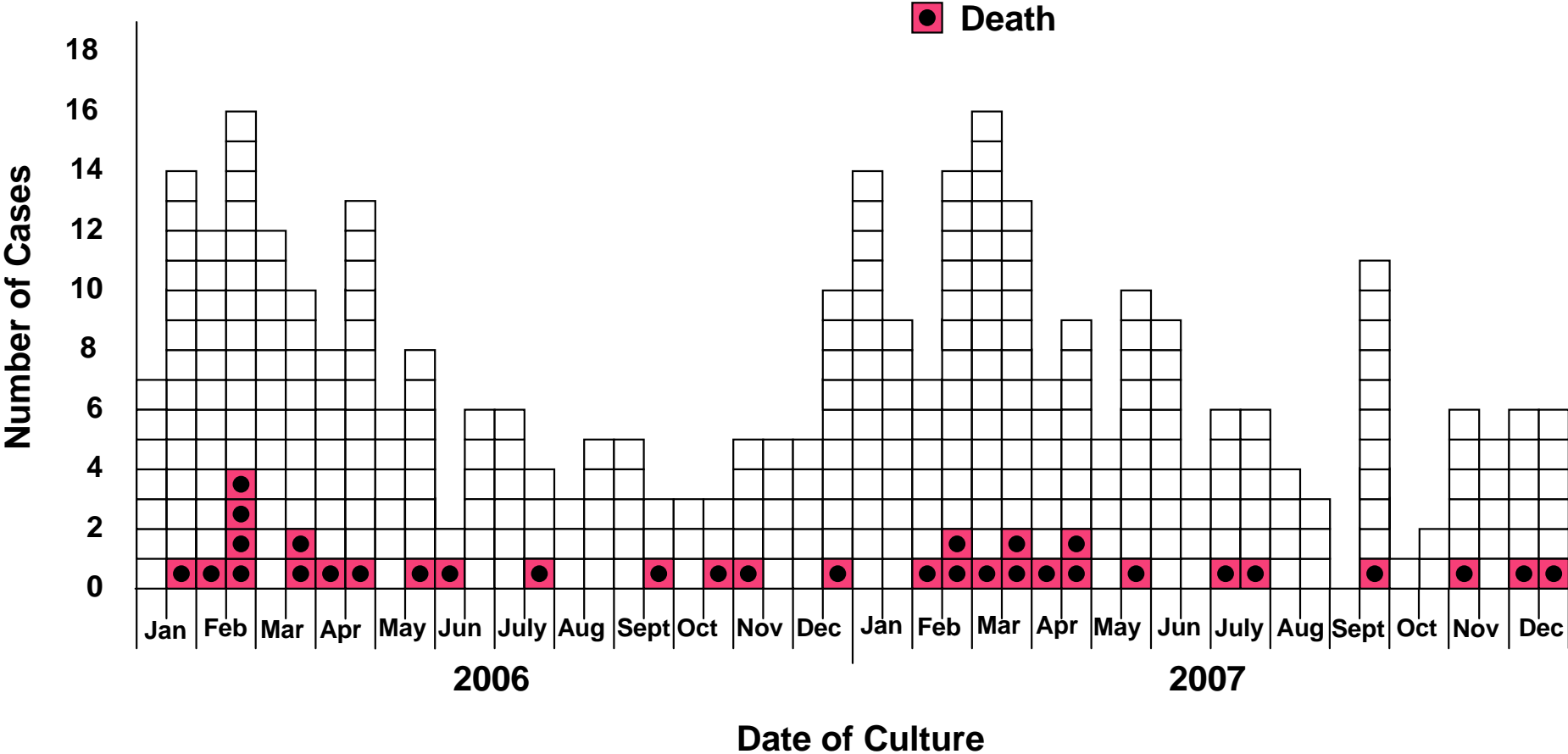


TABLE 5

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2006 - DECEMBER 31, 2007

	<u>1/1/2006-</u> <u>12/31/2006</u>		<u>1/1/2007-</u> <u>12/31/2007</u>		<u>1/1/2006-</u> <u>12/31/2006</u>		<u>1/1/2007-</u> <u>12/31/2007</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	206	(57)	170	(51)	Yes	343	(95)	319	(96)
<u>Greater Minnesota</u>	<u>155</u>	<u>(43)</u>	<u>162</u>	<u>(49)</u>	No	18	(5)	12	(4)
TOTAL	361	(100)	332	(100)	<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>1</u>	<u>(0)</u>
					TOTAL	361	(100)	332	(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	25	(7)	23	(7)	Blood only	283	(78)	261	(79)
7-90 days	21	(6)	13	(4)	CSF only	5	(1)	3	(1)
91 days-11 mos.	3	(1)	1	(0)	Blood and CSF	0	(0)	0	(0)
1-9	2	(1)	2	(1)	Pleural	2	(1)	0	(0)
10-19	2	(1)	4	(1)	Joint	31	(9)	25	(8)
20-29	15	(4)	14	(4)	Placenta	9	(2)	4	(1)
30-39	19	(5)	24	(7)	Amniotic fluid	0	(0)	1	(0)
40-49	40	(11)	30	(9)	Surgical Specimen	0	(0)	0	(0)
50-59	47	(13)	55	(17)	Internal body site	1	(0)	3	(1)
60-69	59	(16)	59	(18)	Peritoneal	9	(2)	4	(1)
<u>70+</u>	<u>128</u>	<u>(35)</u>	<u>107</u>	<u>(32)</u>	Bone	20	(6)	27	(8)
TOTAL	361	(100)	332	(100)	<u>Other</u>	<u>1</u>	<u>(0)</u>	<u>4</u>	<u>(1)</u>
					TOTAL	361	(100)	332	(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	188	(52)	187	(56)	Bacteremia	196	(54)	156	(47)
<u>Female</u>	<u>173</u>	<u>(48)</u>	<u>145</u>	<u>(44)</u>	Meningitis	7	(2)	5	(2)
TOTAL	361	(100)	332	(100)	Pneumonia	25	(7)	27	(8)
					Cellulitis	53	(15)	52	(16)
RACE					Arthritis	19	(5)	21	(6)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Osteomyelitis	21	(6)	28	(8)
White	193	(53)	209	(63)	Abscess	11	(3)	12	(4)
Black	25	(7)	15	(5)	Necrotizing fasciitis	1	(0)	1	(0)
Amer Indian/Alas Native	5	(1)	5	(2)	Peritonitis	10	(3)	2	(1)
Asian/Pacific Islander	9	(2)	5	(2)	Septic abortion	7	(2)	2	(1)
More than 1 race	2	(1)	2	(1)	or stillbirth				
<u>Other/Unknown</u>	<u>127</u>	<u>(35)</u>	<u>96</u>	<u>(29)</u>	<u>Other</u>	<u>11</u>	<u>(3)</u>	<u>26</u>	<u>(8)</u>
TOTAL	361	(100)	332	(100)	TOTAL	361	(100)	332	(100)

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2006 - DECEMBER 31, 2007

	EARLY ONSET CASES*				LATE ONSET CASES*			
	<u>1/1/2006- 12/31/2006</u>		<u>1/1/2007- 12/31/2007</u>		<u>1/1/2006- 12/31/2006</u>		<u>1/1/2007- 6/30/2007</u>	
RESIDENCE								
<u>Residence</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Twin Cities Metro Area	17	(68)	14	(61)	10	(48)	8	(62)
Greater Minnesota	8	(32)	9	(39)	11	(52)	5	(38)
TOTAL	25	(100)	23	(100)	21	(100)	13	(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	(52)	14	(61)	10	(48)	5	(38)
Female	12	(48)	9	(39)	11	(52)	8	(62)
TOTAL	25	(100)	23	(100)	21	(100)	13	(100)
RACE								
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
White	13	(52)	11	(48)	9	(43)	3	(23)
Black	5	(20)	3	(13)	5	(24)	5	(38)
American Indian/ Alaskan Native	1	(4)	0	(0)	1	(5)	0	(0)
More than 1 race	2	(8)	1	(4)	0	(0)	0	(0)
Asian/Pacific Islander	1	(4)	1	(4)	0	(0)	0	(0)
Other/Unknown	3	(12)	7	(30)	6	(29)	5	(38)
TOTAL	25	(100)	23	(100)	21	(100)	13	(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	24	(96)	21	(91)	20	(95)	13	(100)
No	1	(4)	2	(9)	1	(5)	0	(0)
Unknown	0	(0)	0	(0)	0	(0)	0	(0)
TOTAL	25	(100)	23	(100)	21	(100)	13	(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	22	(88)	19	(83)	17	(81)	10	(77)
Meningitis	1	(4)	1	(4)	2	(10)	2	(15)
Pneumonia	1	(4)	1	(4)	0	(0)	0	(0)
Other	1	(4)	2	(9)	2	(10)	1	(8)
TOTAL	25	(100)	23	(100)	21	(100)	13	(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, 2006 - DECEMBER 31, 2007

<u>Type of Case*</u>	<u>1/1/2006-</u> <u>12/31/2006</u>		<u>1/1/2007-</u> <u>6/30/2007</u>	
	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Maternal case with miscarriage/stillbirth	10	(3)	5	(2)
Other maternal case	3	(1)	5	(2)
Infant case - early onset	25	(7)	23	(7)
Infant case - late onset	21	(6)	13	(4)
<u>Not pregnant/postpartum/infant case</u>	<u>302</u>	<u>(84)</u>	<u>286</u>	<u>(86)</u>
TOTAL	361	(100)	332	(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	3	(23)	2	(20)
Septic abortion/ stillbirth	7	(54)	2	(20)
Meningitis	0	(0)	0	(0)
Chorioamnionitis	0	(0)	2	(20)
Abscess	0	(0)	0	(0)
Pyelonephritis	1	(8)	0	(0)
Peritonitis	1	(8)	0	(0)
Cellulitis	0	(0)	1	(10)
Arthritis	0	(0)	1	(10)
Endometritis	0	(0)	1	(10)
<u>Unknown</u>	<u>1</u>	<u>(8)</u>	<u>1</u>	<u>(10)</u>
TOTAL	13	(100)	10	(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	2	(15)	4	(40)
Survived, clinical infection	0	(0)	0	(0)
Live birth, neonatal death-GBS related	0	(0)	0	(0)
Miscarriage/stillbirth-likely GBS-related	10	(77)	5	(50)
<u>Induced abortion</u>	<u>1</u>	<u>(8)</u>	<u>1</u>	<u>(10)</u>
TOTAL	13	(100)	10	(100)

TABLE 5 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
GROUP B STREPTOCOCCUS, JANUARY 1, 2006 - DECEMBER 31, 2007

1/1/2006- 1/1/2007-
12/31/2006 12/31/2007

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	0	(0)	1	(20)
Placenta only	9	(90)	4	(80)
Peritoneal	1	(10)	0	(0)
<u>Autopsy only</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	10	(100)	5	(100)

GESTATIONAL AGE OF EARLY ONSET CASES

<u>Age (weeks)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<28	4	(16)	4	(17)
28-32	1	(4)	2	(9)
33-34	0	(0)	1	(4)
35-36	1	(4)	3	(13)
37+	19	(76)	13	(57)
<u>Unknown</u>	<u>0</u>	<u>(0)</u>	<u>0</u>	<u>(0)</u>
TOTAL	25	(100)	23	(100)

BIRTH WEIGHT OF EARLY ONSET CASES

<u>Weight (grams)</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
<1000	0	(0)	0	(0)
1000-1999	0	(0)	0	(0)
2000-2999	4	(16)	4	(17)
≥3000+	20	(80)	16	(70)
<u>Unknown</u>	<u>1</u>	<u>(4)</u>	<u>3</u>	<u>(13)</u>
TOTAL	25	(100)	23	(100)

Cases of Group B Streptococcal Disease by Date Cultured, Minnesota January 1, 2006 – December 31, 2007

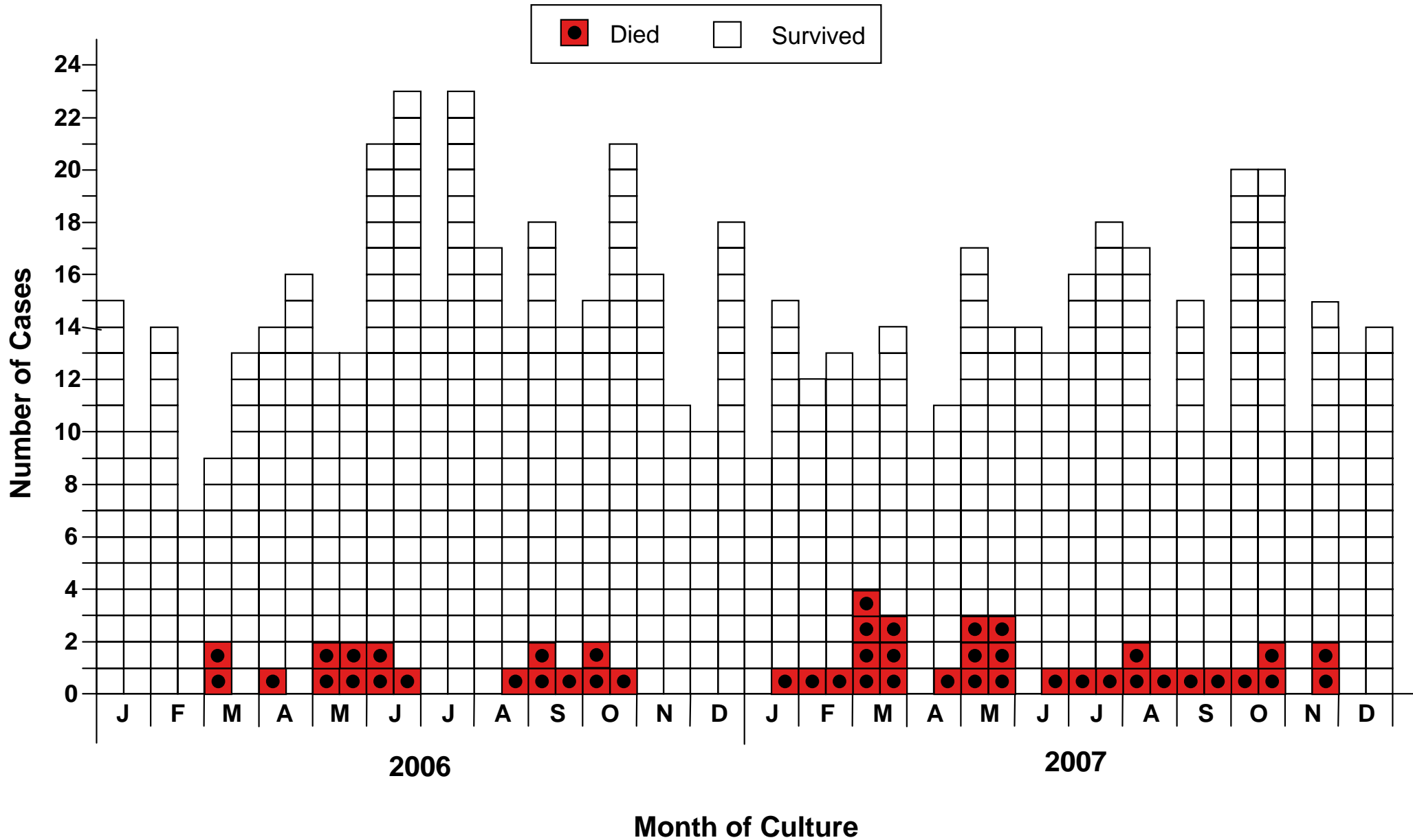


TABLE 6

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE, JANUARY 1, 2007 - JUNE 30, 2007

	1/1/2005- 12/31/2005		1/1/2007- 6/30/2007		1/1/2005- 12/31/2005		1/1/2007- 6/30/2007		
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)	175	(48)	Yes	552	(93)	317	(90)
Greater Minnesota	283	(47)	186	(52)	No	44	(7)	37	(10)
TOTAL	596	(100)	361	(100)	TOTAL	596	(7)	354	(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)	26	(7)	Blood Only	553	(93)	340	(94)
1	24	(4)	13	(4)	Blood and CSF	1	(<1)	0	(0)
2-4	29	(5)	13	(4)	CSF Only	19	(3)	12	(3)
5-17	25	(4)	18	(5)	Pericardial Fluid	1	(<1)	0	(<1)
18-34	36	(6)	12	(3)	Pleural	9	(2)	5	(1)
35-49	76	(13)	57	(16)	Joint	6	(1)	1	(0)
50-64	134	(22)	80	(22)	Peritoneal	2	(<1)	0	(<1)
65-79	111	(19)	67	(19)	Other	5	(<1)	3	(<1)
80+	133	(22)	75	(21)	TOTAL	596	(100)	361	(100)
TOTAL	596	(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>
Male	313	(53)	189	(52)	Bacteremia				
Female	283	(47)	172	(48)	without focus	210	(35)	110	(30)
TOTAL	596	(100)	361	(100)	Pneumonia	319	(54)	205	(57)
RACE					Meningitis	30	(5)	19	(5)
<u>Race</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>	Otitis	5	(<1)	8	(2)
White Only	350	(59)	195	(54)	Cellulitis	7	(1)	1	(0)
Black Only	46	(8)	21	(6)	Other	25	(4)	18	(5)
American Indian/ Alaskan Native Only	11	(<1)	8	(2)	TOTAL	596	(100)	361	(100)
Asian/Pacific Isl. Only	5	(<1)	7	(2)	PENICILLIN SUSCEPTIBILITY				
More than 1 Race	2	(<1)	5	(<1)	<u>Susceptibility</u>	<u>No.</u>	<u>(%)</u>	<u>No.</u>	<u>(%)</u>
Unknown	182	(31)	125	(35)	Susceptible (MIC ≤ 0.06)	411	(77)	108	(75)
TOTAL	596	(100)	361	(100)	Intermediate	75	(14)	22	(15)
					(MIC = 0.12 - 1.0)				
					Resistant (MIC > 2.0)	46	(9)	14	(10)
					TOTAL	532	(100)	144	(100)
						<u>No.</u>	<u>(%)*</u>	<u>No.</u>	<u>(%)*</u>
					Not Tested	64	(11)	217	(61)

* of total cases

TABLE 6 (CONTINUED)

REPORTED CASES OF INVASIVE DISEASE ATTRIBUTED TO
STREPTOCOCCUS PNEUMONIAE WITH SUSCEPTIBILITY TESTING COMPLETED,
JANUARY 1, 2007 - JUNE 30, 2007

PENICILLIN NON-SUSCEPTIBILITY* BY AGE

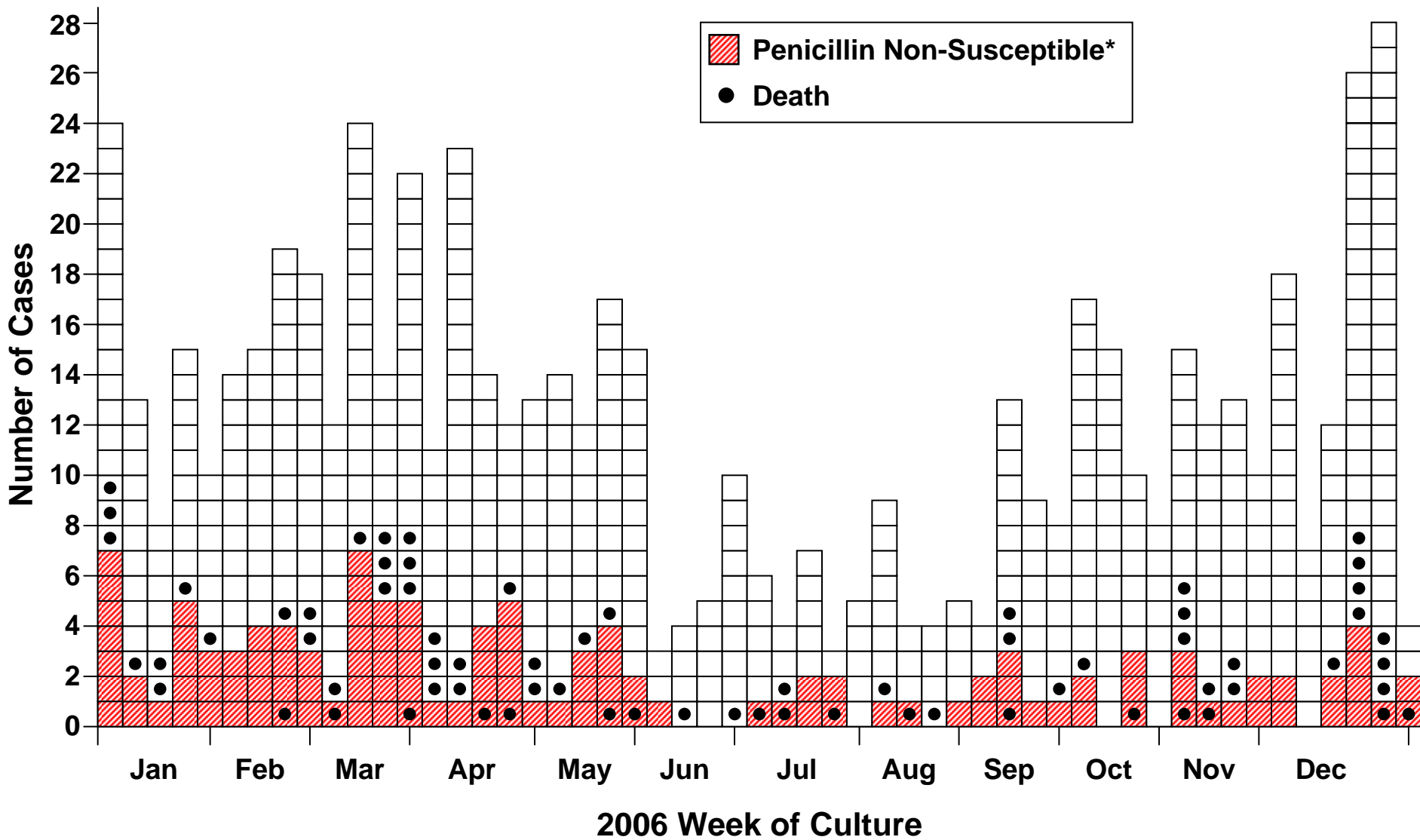
<u>Age (Years)</u>	<u>1/1/2005- 12/31/2005</u>		<u>1/1/2007- 6/30/2007</u>	
	<u>Total</u>	<u>(%)</u>	<u>Total</u>	<u>(%)</u>
<1	4 / 26	(15)	1 / 6	(17)
1	5 / 24	(21)	3 / 6	(50)
2-4	9 / 29	(31)	2 / 7	(29)
5-17	4 / 22	(18)	1 / 6	(17)
18-34	6 / 32	(19)	1 / 4	(25)
35-49	9 / 71	(13)	5 / 29	(17)
50-64	28 / 123	(23)	3 / 30	(10)
65-79	25 / 90	(28)	11 / 29	(38)
80+	<u>31 / 115</u>	(27)	<u>9 / 27</u>	(33)
TOTAL	121 / 532	(23)	36 / 144	(25)

PENICILLIN NON-SUSCEPTIBILITY* BY TYPE OF INFECTION

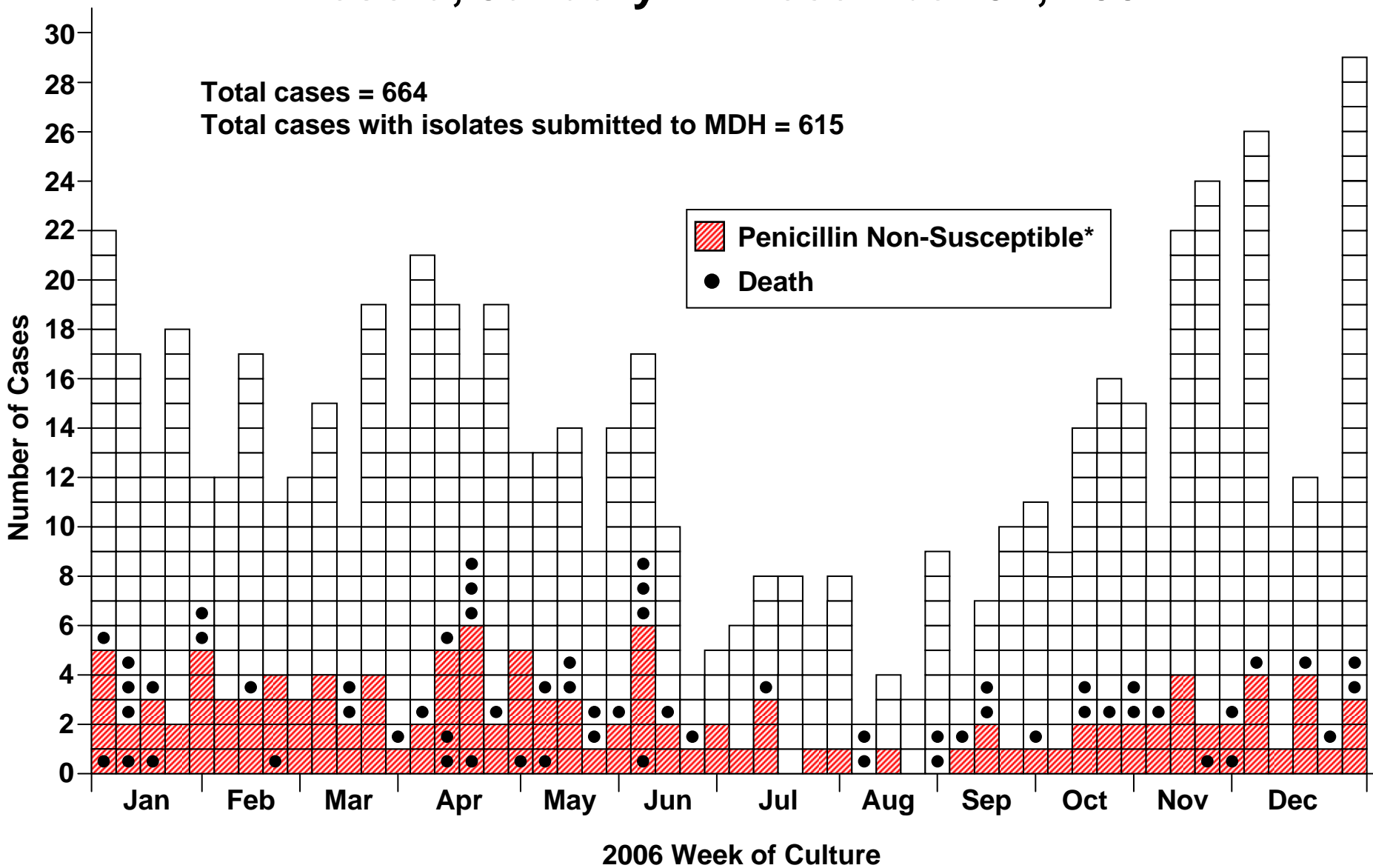
<u>Type</u>	<u>1/1/2005- 12/31/2005</u>		<u>1/1/2007- 6/30/2007</u>	
	<u>Total</u>	<u>(%)</u>	<u>Total</u>	<u>(%)</u>
Bacteremia	37 / 184	(20)	11 / 110	(10)
Pneumonia	71 / 286	(25)	21 / 204	(10)
Meningitis	7 / 29	(24)	2 / 19	(11)
<u>Other/Unknown</u>	<u>6 / 33</u>	<u>(18)</u>	<u>2 / 28</u>	<u>(7)</u>
TOTAL	121 / 532	(23)	36 / 361	(10)

*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 - December 31, 2006



Cases of *S. pneumoniae* by Week of Culture, Minnesota, January 1 - December 31, 2007



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