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#### Resurgent Bacterial Sexually Transmitted Disease Among Men Who Have Sex With Men — King County, Washington, 1997–1999

During the late 1980s and early 1990s, King County, Washington (1998 population: 1.6 million), experienced a substantial epidemic of infectious syphilis (i.e., primary, secondary, and early latent). Subsequently, reported cases of infectious syphilis declined to six cases in 1995 and one in 1996; five of the 1995 cases and the case in 1996 were believed to have been acquired outside King County. However, in 1997, sustained spread of syphilis was reestablished in King County (1). To determine whether this reemergence was associated with changes in the epidemiology of other sexually transmitted diseases (STDs), Public Health–Seattle and King County (PHSKC) analyzed notifiable STD data for 1997–1999. This report summarizes the results of this analysis, which indicate that infectious syphilis among men who have sex with men (MSM) in King County increased to 46 cases during January–June 1999, and chlamy-dia and gonorrhea also increased among MSM attending public health clinics.

For this report, PHSKC analyzed surveillance data on infectious syphilis, chlamydia, and gonorrhea reported to PHSKC from health-care providers and laboratories. Data included disease, sex, stage of disease, racial/ethnic group, age, and in some cases sexual orientation and anatomic site of infection. Persons with these diseases were interviewed by PHSKC staff for partner management. Data collected included number and sex of sex partners, sexual orientation, and other risk factors.

Syphilis cases increased steadily from late 1997 to mid-1998, appeared to stabilize in the second half of 1998, then increased during January–June 1999 (Figure 1). The proportion of cases in MSM increased from 21% (four of 19) in 1997 to 85% (75 of 88) in 1998 and 1999 (p<0.01). Among 79 MSM, the median age was 35 years (range: 19–56 years) and 70% were aged >30 years. Primary, secondary, and early latent infection accounted for 23%, 61%, and 16% of cases in MSM, respectively; these proportions did not differ significantly from 1997 to 1999. Among the 79 MSM with early latent syphilis in 1997 through June 1999, 48 (72%) of 67 had human immunodeficiency virus (HIV) infection and two others were HIV seropositive near the time syphilis was diagnosed.

From 1997 through June 1999, laboratory-confirmed infections with *Neisseria* gonorrhoeae and *Chlamydia trachomatis* among MSM attending the PHSKC STD clinic also increased (Figure 2). In addition, cases of rectal gonococcal infection in

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FIGURE 1. Reported cases of infectious (i.e., primary, secondary, and early latent) syphilis, by quarter and sexual orientation of infected persons — King County, Washington, 1997–1999



males reported by providers outside the STD clinic increased from six cases in 1997 to 25 cases in 1998 and 13 cases during January–June 1999. The median age of the 427 MSM who received a diagnosis of gonorrhea or chlamydial infection in the STD clinic from 1997 through June 1999 was 32 years (range: 20–53 years), and 17% with chlamydial infection and 19% with gonorrhea were known to be infected with HIV; this proportion did not vary significantly through the period of analysis.

Data on sex partners were provided by 63 (80%) of the 79 MSM with infectious syphilis from 1997 through June 1999. During the interval when syphilis was likely to have been acquired or transmitted (mean: 6 months), these men reported 740 sex partners, of whom 653 (88%) were met at anonymous venues such as bath houses, bars, or clubs; 50 (79%) of 63 men had had at least one anonymous partner (median: three partners; range: one to 100). MSM with gonorrhea or chlamydial infection reported a mean of 3.5 sex partners during the 2 months before treatment, and approximately 20% apparently acquired infection from anonymous partners.

Based on an estimate of PHSKC that 40,000 MSM reside in King County, the annual rate of infectious syphilis per 100,000 MSM increased from zero in 1996 to approximately 10 in 1997 and 90 in 1998, and the projected annual incidence in 1999 is 200 cases per 100,000. An estimated 10% of MSM in King County are infected with HIV (PHSKC, unpublished data, 1999). If 4000 HIV-infected MSM reside in King County, the projected annual incidence of infectious syphilis in the HIV-infected MSM

Bacterial Sexually Transmitted Disease — Continued





population in 1999 is approximately 1500 per 100,000. The minimum incidence of gonorrhea in MSM, based on the number of cases diagnosed in the PHSKC STD clinic plus rectal infections in males diagnosed elsewhere (data on sexual orientation are not available outside the STD clinic), increased from 180 per 100,000 MSM in 1997 to 430 and 420 in 1998 and 1999, respectively. In comparison, the reported rate of gonorrhea in presumptively heterosexual persons in King County was 50 per 100,000 in 1997 and 1998.

PHSKC has used outreach activities, targeted publications in the local gay press, and community forums to encourage MSM to follow safer sex practices and to be screened for STDs. STD and HIV testing and counseling are being offered at bath houses and other venues, screening has been expanded among MSM attending public clinics, and King County health-care providers have been encouraged to expand STD screening among at-risk MSM.

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**Editorial Note**: The incidence of STDs among MSM declined substantially during the early 1980s as a result of a decrease in sexual risk behavior (*2,3*). However, high-risk behaviors and STDs among MSM have increased in some cities (*4,5*). In Washington, the proportion of cases of primary and secondary syphilis among MSM declined from

#### Bacterial Sexually Transmitted Disease — Continued

81% in 1973 to 8% in 1988 (3). The findings in this report indicate that syphilis transmission in King County is occurring predominantly among MSM. When STDs are introduced into a community, the size of the subsequent outbreak depends on the sexual mixing patterns of the community, the numbers of sex partners, concurrency of sexual partnerships, condom use, and the frequency of partner change (3,6). In King County, syphilis, gonorrhea, and chlamydia apparently have been introduced into a population of MSM who have large numbers of anonymous partners, which can result in rapid and extensive transmission of STDs (7). In addition to this outbreak, recent reports have suggested increases in gonococcal infection in several western states and in the frequency of unprotected anal sex among MSM (4,5). Some MSM may be recruiting sex partners in anonymous venues more often now than in the recent past (8).

The high proportion of persons with syphilis, gonorrhea, and chlamydial infection who also were infected with HIV is of particular concern. Persons with STDs, including genital ulcer disease and nonulcerative STD, have a twofold to fivefold increased risk for HIV infection (9,10). Control of STDs is a central component of HIV infection prevention efforts in the United States (10); resurgence of bacterial STD threatens national HIV infection prevention efforts.

Reasons for the increasing rates of bacterial STD in MSM in King County are unknown but may include an increased frequency of unprotected sex among some MSM. Anecdotal reports by MSM with bacterial STDs suggest that such behaviors are linked to sex with anonymous partners in bath houses, which may be related to improvements in the treatment of HIV infection or to changing patterns of recreational drug use. The age distribution of syphilis cases suggests that in King County, relapse in sexual safety among older MSM is a more important determinant than failure of young, newly sexually active MSM to adopt safer sex practices.

The findings in this report are subject to at least three limitations. First, reporting of STDs is incomplete, which could result in an underestimate of the incidence of disease in this population. Second, MSM attending STD clinics probably are not representative of all MSM at risk. Finally, some persons may not have given accurate responses when asked about sexual relationships, HIV serostatus, or high-risk behaviors.

PHSKC has employed several control measures to contain these outbreaks. Although partner notification is effective for the known partners of persons with syphilis and gonorrhea, its ability to reach exposed persons is greatly limited in situations such as the syphilis outbreak in King County, where 88% of partners were met at venues where anonymous sex is common. The high frequency of anonymous sex strongly suggests that sex partner management services for identifiable partners alone would be insufficient to control the outbreak. Print media, public service announcements, outreach, and expanded screening have been used in this outbreak to augment traditional partner management services. These interventions may have encouraged timely symptom recognition and health-seeking behavior by infected men. Among men with syphilis, 72% knew they were HIV positive and many were receiving health care for the disease, indicating that enhanced STD prevention efforts may be needed for HIV-infected MSM in health-care settings and other venues. This outbreak demonstrates the need to sustain surveillance for STDs even after rates have decreased in a community.

Bacterial Sexually Transmitted Disease — Continued

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### Inadvertent Use of Bicillin<sup>®</sup> C-R for Treatment of Syphilis — Maryland, 1998

In October 1998, the Maryland Department of Health and Mental Hygiene (MDH) was notified that a public sexually transmitted disease (STD) clinic in a county (county A) had used a nonrecommended preparation to treat syphilis patients during January–October 1998. The clinic had been inadequately treating syphilis patients or syphilis contacts with Bicillin<sup>®</sup>\* C-R (a mixture of 1.2 million units [MU] benzathine penicillin G [BPG] and 1.2 MU procaine penicillin G), rather than with Bicillin<sup>®</sup> L-A (2.4 MU BPG). Compared with short-acting procaine penicillin G, BPG has a longer half-life considered essential for effective syphilis treatment because it yields sustained spirochetecidal levels needed to treat the slowly reproducing agent of syphilis, Treponema pallidum. The inadvertent use of Bicillin C-R, which contains only half the recommended dose of BPG for syphilis, was recognized by a health-care provider at the STD clinic in a neighboring county (county B) approximately 1 month after county B had borrowed BPG from county A. This report summarizes the investigation of the use of Bicillin C-R to treat STD patients in county A and discusses the frequency of Bicillin C-R use in STD clinics nationwide. Findings of this investigation indicate that inadvertent Bicillin C-R use is more frequent than previously known and that preventive measures should be taken to minimize such use.

Three BPG-containing products are marketed by Wyeth-Ayerst Laboratories (Philadelphia, Pennsylvania): Bicillin L-A, Bicillin C-R, and Bicillin<sup>®</sup> C-R 900/300 (a mixture of 0.9 MU BPG and 0.3 MU procaine penicillin G). Besides having similar proprietary names, the package and label for Bicillin C-R and Bicillin L-A have similar lettering and colors. Bicillin L-A is recommended for treating syphilis patients and upper respiratory tract infections caused by susceptible streptococci (1). The efficacy of Bicillin C-R to

<sup>\*</sup>Use of trade names and commercial sources is for identification only and does not imply endorsement by CDC or the U.S. Department of Health and Human Services.

#### Bicillin C-R — Continued

treat syphilis is unknown. The package insert for Bicillin C-R states that this product should not be used to treat syphilis, gonorrhea, yaws, bejel, or pinta.

To identify patients who might have been treated with Bicillin C-R at county A's STD clinic, investigators reviewed the clinic's invoice records and the penicillin injection log. MDH searched its STD surveillance database for residents from county A who were treated for syphilis or had a positive syphilis serology during January–October 1998.

During December 1997–May 1998, 150 doses of Bicillin C-R were shipped to county A's STD clinic after orders for Bicillin L-A were placed by telephone. During January– October 1998, 123 of 160 doses of penicillin administered for syphilis were Bicillin C-R. Sixty-three patients, including five pregnant women, might have received Bicillin C-R. Because the efficacy of Bicillin C-R for treatment of patients with syphilis is unknown, the clinic attempted to contact and treat all patients with Bicillin L-A. During this period, routine outreach activities were suspended, clinic hours were extended, and personnel were asked to work overtime.

Clinic workers contacted patients by telephone, and subsequent clinical evaluations were made by two nurses. STD field staff visited patients in their homes; multiple attempts were often needed to locate and counsel patients. Although the five pregnant women were located and treated with Bicillin L-A, four infants were treated for congenital syphilis because their mothers had not been treated adequately at least 30 days before delivery. None of the infants had congenital syphilis.

After 8 weeks of follow-up efforts, 52 (82%) of the 63 patients had been restaged and retreated; the remaining 11 patients either could not be located (one) or refused retreatment (10). The total estimated direct costs of follow-up efforts conducted by county A's clinic was approximately \$24,000.

In county B, 10 syphilis patients received Bicillin C-R during an 11-day period according to the clinic's syphilis treatment records. Of these, eight were treated with Bicillin L-A, one was not located, and the other refused further treatment.

To determine the frequency of Bicillin C-R use in STD clinics nationwide and to educate STD program managers about the possible confusion between Bicillin C-R and Bicillin L-A, CDC surveyed 65 STD program areas during January–February 1999 about unintentional Bicillin C-R use from 1993 through 1998. Fifty-seven of the 65 program areas were state/city program areas, and the remainder were islands and territories; 55 (96%) of the state/city program areas responded to the survey. Of these, 45 (82%) used only Bicillin L-A to treat syphilis patients, three used Permapen<sup>®</sup> exclusively (a BPG product from Pfizer, Inc. [New York, New York]), and seven used both Permapen and Bicillin L-A. Besides the Maryland clinics, four program areas reported unintentional Bicillin C-R use at least once from 1993 through 1998. In two areas, Bicillin C-R was received at the state health department and was distributed to STD clinics statewide; the administration of a nonrecommended regimen subsequently occurred at many local STD clinics. Two other areas reported unintentional use of Bicillin C-R at individual clinics (one area reported multiple occurrences). In March 1999, unintentional use of Bicillin C-R was reported from a program area that had responded negatively to the earlier survey. The number of persons who received a nonrecommended regimen in this incident could not be determined.

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Among the 55 state/city program areas that responded to the survey, 31 (56%) were unaware of the possible confusion between Bicillin C-R and Bicillin L-A; 24 (46%) program areas routinely ordered Bicillin L-A by telephone.

Reported by: D Dwyer, MD, State Epidemiologist, Maryland Dept of Health and Mental Hygiene. Div of STD Prevention, National Center for HIV, STD, and TB Prevention; and an EIS Officer, CDC.

**Editorial Note**: The inadvertent use of Bicillin C-R in county A's STD clinic disrupted routine public health functions and incurred substantial monetary costs to the clinic and unnecessary discomfort to patients. Such incidents may undermine the credibility of and trust in health departments on the part of affected patients and the broader community. Although no treatment failures or congenital syphilis cases were associated with this incident, treatment according to standard guidelines was missed for patients who either could not be relocated or refused retreatment.

In addition to Maryland, five program areas reported unintentional use of Bicillin C-R from 1993 through 1998. This number should be viewed as a conservative estimate because some program areas might have failed to report such use because of concerns over liability or performance evaluation. Because most program areas surveyed were unaware of the possible confusion between Bicillin C-R and Bicillin L-A, some unintentional Bicillin C-R use could have occurred that remained unknown.

Penicillin therapy is the mainstay of treatment and a core element of syphilis prevention in the United States (2,3). However, declining syphilis rates may have caused providers to become less familiar with the penicillin regimens appropriate for syphilis. Less attention may have been paid to clinician outreach and training for medications used to treat a disease that has declined as sharply as syphilis (83% decline in primary and secondary syphilis from 1990 to 1997 in the United States) (4).

Sustained participation by manufacturers in providing diagnostic and therapeutic products is an essential element of emerging initiatives to eliminate syphilis transmission in the United States (5). Increased efforts are needed to re-educate clinic managers and providers about the existence of different penicillin preparations and their appropriate usage. Written rather than telephone orders may help to minimize ordering or shipment errors. Although the most important safeguard against medication errors is that providers carefully read package labels, some label and package modifications may help decrease confusion about Bicillin products and other pharmaceuticals with similar names and labels.

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Notice to Readers

#### Availability of Hepatitis B Vaccine That Does Not Contain Thimerosal as a Preservative

On August 27, 1999, Merck Vaccine Division<sup>\*</sup> (Merck & Co., Inc., West Point, Pennsylvania) received approval from the Food and Drug Administration (FDA) of a supplement to Merck's license application to include the manufacture of single-antigen preservative-free hepatitis B vaccine (Recombivax HB<sup>®</sup>, Pediatric); distribution is expected to begin September 13, 1999. In addition, SmithKline Beecham Biologicals (SmithKline Beecham, Philadelphia, Pennsylvania), expects to make single-antigen preservative-free hepatitis B vaccine (Engerix-B<sup>®</sup>, Pediatric) available in the near future. Further product information will be provided when it becomes available. Product packaging and labels will indicate that these vaccines do not contain preservative.

To prevent shortages because of limited supplies of single-antigen hepatitis B vaccines that do not contain thimerosal as a preservative and to assure prevention of perinatal and early childhood hepatitis B virus (HBV) infection during the transition when both vaccines that contain and do not contain thimerosal as a preservative are available, the following three steps should be taken:

- 1) Newborn infants. The priority for use of single-antigen hepatitis B vaccines that do not contain thimerosal as a preservative should be to vaccinate newborn infants. Routine hepatitis B vaccination policies for all newborn infants should be reintroduced immediately in hospitals in which these policies and practices have been discontinued. All hospitals should ensure that newborn infants of hepatitis B surface antigen (HBsAg)-positive mothers and of mothers whose HBsAg status is unknown receive their first dose of hepatitis B vaccine within 12 hours of birth. If hepatitis B vaccine that does not contain thimerosal as a preservative is not available, then thimerosal preservative-containing vaccine should be used for these infants.
- 2) Infants aged <6 months. When available, hepatitis B vaccines that do not contain thimerosal as a preservative should be used to vaccinate infants aged <6 months (single-antigen hepatitis B vaccine for infants aged ≥6 weeks and either single-antigen or combination products for infants aged ≥6 weeks). Infants in groups at high risk for perinatal and early childhood HBV infections should complete the three-dose hepatitis B vaccine series by age 6 months. When vaccines that do not contain thimerosal as a preservative are not available, these groups should be vaccinated with thimerosal preservative-containing vaccine. For infants born to HBsAg-negative mothers and who are not in high-risk groups, existing recommendations should be used for administering thimerosal preservative-containing hepatitis B vaccines if vaccine that does not contain thimerosal as a preservative is not available (1-4). These groups should complete the three-dose hepatitis B vaccine series by age 18 months.</p>

<sup>\*</sup>Use of trade names and commercial sources is for identification only and does not imply endorsement by CDC or the U.S. Department of Health and Human Services.

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3) Children aged ≥6 months, adolescents, and adults. Thimerosal preservativecontaining hepatitis B vaccines can continue to be used for vaccinating children aged ≥6 months, adolescents, and adults as is recommended (1–6).

Reported by: National Center for Infectious Diseases; National Immunization Program; Agency for Toxic Substances and Disease Registry; National Center for Environmental Health, CDC.

**Editorial Note**: On July 8, 1999, the American Academy of Pediatrics (AAP) and the Public Health Service (PHS) released a joint statement about thimerosal in vaccines, and the American Academy of Family Physicians (AAFP) released a comparable statement (1–3). Thimerosal is a mercury-containing preservative that has been used as an additive to biologics and vaccines since the 1930s because it is effective in preventing bacterial and fungal contamination, particularly in open multidose containers. Vaccine manufacturers, FDA, and other PHS agencies are working together to replace expeditiously thimerosal preservative-containing vaccines whenever possible with vaccines that do not contain thimerosal as a preservative while ensuring maintenance of high vaccination coverage levels and prevention of disease.

Previous recommendations for using thimerosal-containing vaccines indicated that clinicians and parents could take advantage of the flexibility in the immunization schedule to delay hepatitis B vaccination from birth until age 2–6 months for infants born to mothers who are HBsAg negative (1–4). No changes were made in recommendations for immunization at birth of infants of HBsAg-positive mothers or infants of mothers with an unknown HBsAg status.

After the joint AAP/PHS statement on thimerosal, the AAP and CDC provided additional implementation guidance (*3,4*). CDC guidance included hepatitis B vaccination should be continued at birth for infants born to HBsAg-negative mothers belonging to populations or groups that have a high risk for early childhood HBV infection, including Asian/Pacific Islanders, immigrant populations from countries in which HBV infection is of high or intermediate endemicity (*7*), and households with persons with chronic HBV infection. To ensure the prevention of perinatal HBV transmission, hospitals should continue policies to vaccinate all infants at birth until procedures are in place to guarantee that 1) the HBsAg status of every pregnant woman is reviewed at delivery, 2) appropriate passive-active immunoprophylaxis (hepatitis B immune globulin and hepatitis B vaccine) is provided for infants of HBsAg-positive women within 12 hours of birth, and 3) appropriate active immunoprophylaxis (hepatitis B vaccine) is provided for infants of women with an unknown HBsAg status.

After the statements on thimerosal in vaccines were published, changes occurred in newborn hepatitis B vaccination policies and practices in some hospitals, including unintended changes affecting immunization of infants at risk for perinatal HBV transmission. In August 1999, state and territorial health department hepatitis coordinators conducted surveys of selected birthing hospitals in their project areas. Of 977 hospitals surveyed in 48 project areas, 773 (79%) were aware of the joint AAP/PHS statement on thimerosal. Of 574 hospitals that were aware of the statement and had existing policies or standing orders to vaccinate all newborns, 262 (46%) reported a policy change to no longer routinely vaccinate newborns of HBsAg-negative mothers. In addition, 52 (9%) reported they no longer routinely vaccinate any newborn (CDC, unpublished data, 1999). Such a policy usually requires a physician's order to vaccinate infants of HBsAg-positive mothers and infants of mothers whose HBsAg status is unknown. CDC also has received anecdotal reports of hospitals in which policies were

#### Notice to Readers — Continued

changed, and infants born to HBsAg-positive mothers and infants born to mothers with unknown HBsAg status were not vaccinated within 12 hours of birth (CDC, unpublished data, 1999). Chronic HBV infection develops in approximately 90% of infants infected perinatally; among chronically infected infants, the risk for premature death from HBV-related liver cancer or cirrhosis is approximately 25% (8). The availability of hepatitis B vaccine that does not contain thimerosal as a preservative should alert medical facilities to review their policies to ensure the vaccination of newborns as recommended by the Advisory Committee on Immunization Practices, AAFP, and AAP.

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#### FIGURE I. Selected notifiable disease reports, comparison of provisional 4-week totals ending September 4, 1999, with historical data — United States

\*Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

#### TABLE I. Summary — provisional cases of selected notifiable diseases, United States, cumulative, week ending September 4, 1999 (35th Week)

				0 4000
		Cum. 1999		Cum. 1999
Anthrax Brucellosis* Cholera Congenital ru Cyclosporiasi Diphtheria Encephalitis:	bella syndrome s* California* eastern equine*	33 4 46 2 18 2	HIV infection, pediatric* <sup>§</sup> Plague Poliomyelitis, paralytic Psittacosis* Rabies, human Rocky Mountain spotted fever (RMSF) Streptococcal disease, invasive Group A Streptococcal toxic-shock syndrome*	100 3 - 15 - 361 1,500 28
Ehrlichiosis Hansen Disea Hantavirus pu Hemolytic ure	St. Louis* western equine* human granulocytic (HGE)* human monocytic (HME)* se* Ilmonary syndrome* <sup>†</sup> emic syndrome, post-diarrheal*	103 25 59 16 59	Syphilis, congenital <sup>¶</sup> Tetanus Toxic-shock syndrome Trichinosis Typhoid fever Yellow fever	122 20 83 7 207

-: no reported cases

\*Not notifiable in all states.

\*Not notifiable in all states.
 <sup>†</sup> Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).
 <sup>§</sup> Updated monthly from reports to the Division of HIV/AIDS Prevention–Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), last update August 29, 1999.
 <sup>¶</sup> Updated from reports to the Division of STD Prevention, NCHSTP.

						Escherichia coli Q157:H7*				
	AI	DS	Chla	mydia	Cryptosp	oridiosis	NET	ISS	PH	LIS
Reporting Area	Cum. 1999 <sup>†</sup>	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998
UNITED STATES	30,285	31,313	385,364	390,302	1,228	2,575	1,820	1,843	1,186	1,492
NEW ENGLAND	1,532	1,171	13,461	13,624	68	112	196	245	211	201
Nane N.H.	36	22	738 627	657 655	18	25 12	22	28	24	37
Vt.	11	17	322	282	19	19	21	11	12	7
R.I.	73	582 92	6,218 1,552	5,592 1,569	20	5	21	118	6	1
Conn.	356	433	4,004	4,869	-	-	U	46	54	40
MID. ATLANTIC	7,780	8,838	46,767	40,677	217	383	106	198	46	71
N.Y. City	4,062	4,969	21,963	17,795	107	145	6	11	13	12
N.J.	1,476	1,638	6,935 17 867	7,848	9 10	15	6 N	53 N	32	43
E.N. CENTRAL	1,980	2.269	56.637	65.749	239	486	421	312	240	258
Ohio	291	490	16,784	17,675	31	50	135	81	99	49
Ind. III.	247 933	376 880	6,876 19.029	7,017 17.902	18 17	41 56	50 98	71 88	30 33	38 59
Mich.	405	389	13,948	13,964	32	25	66	72	41	48
WIS.	104	134	U 01 705	9,191	141	314	N	N 270	3/	64
Minn.	114	118	4,621	23,040 4,656	33	73	162	100	1215	240 114
lowa Mo	62 340	51 280	1,615 8 595	2,750	29 19	47 17	68 31	65 34	37 37	44 46
N. Dak.	4	4	325	665	13	23	9	9	1	13
S. Dak. Nebr	13 45	13 56	1,064 2,060	1,051 1,857	6 10	19 18	35 69	17 25	13	22
Kans.	100	73	3,455	3,715	1	4	15	20	6	7
S. ATLANTIC	8,314	7,901	84,968	74,964	222	182	210	147	121	121
Del. Md.	889	912	7,152	5,127	- 11	12	5 11	24	- 3	12
D.C.	321	634	N 0.042	N 8,720	7	5	-	1	-	-
W. Va.	46	60	9,942 1,148	1,609	-	1	49	7	39 4	42 6
N.C.	552 764	536 503	15,387 7 972	14,830 12 193	6	-	48 17	40 8	42 13	36
Ga.	1,235	855	21,374	15,422	96	68	22	51	-	-
Fla.	3,887	3,648	20,154	15,346	88	87	50	16	20	18
E.S. CENTRAL Ky.	201	1,268	4,752	27,436 4,306	18	8	21	88 27	43	50
Tenn.	540	431	9,563	8,991	6	6	43	37	27	31
Miss.	285	272	5,673	7,265	2	5	4	5	3	2
W.S. CENTRAL	3,201	3,787	54,603	59,260	44	810	55	65	68	75
Ark. La	123 596	136 651	3,915 7,726	2,574 9,556	1 21	6 14	9	7	7	8
Okla.	94	224	5,418	6,650	4	-	15	11	11	6
	2,300	2,770	37,544	40,460 21 011	10	/90	20	44 251	39	57 102
Mont.	7	20	1,038	793	10	8	11	12	-	4
ldaho Wyo	16	19 1	1,127 445	1,308 432	7	16	18 8	28 50	8	18 54
Colo.	208	209	4,509	5,505	10	13	57	47	40	41
N. Mex. Ariz.	67 607	166 384	1,748 8.550	2,405 7,710	26 9	36 14	8 23	17 31	3 14	15 25
Utah	102	91	1,318	1,497	-	-	25	53	8	21
Nev.	161	160	1,894	2,261	5	8 דפר	11	13	2	14 279
Wash.	250	300	7,921	7,318	- 242	- 207	62	51	64	80
Oreg.	136	129	3,910	3,616	80 162	37	45	78 124	43	79 107
Alaska	13	17	1,246	1,276	-	-	-	4	-+0	-
Hawaii	61	110	1,733	1,640	-	3	3	-	7	12
Guam P.R.	ь 936	- 1,243	226 U	269 U	-	-	N 5	N 5	Ū	Ū
V.I.	25	19	Ň	Ň	-	-	Ň	Ň	Ŭ	Ŭ
C.N.M.I.	-	-	N	N	-	-	N	N	U	U

 TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending September 4, 1999, and September 5, 1998 (35th Week)

N: Not notifiable U: Unavailable C.N.M.I.: Commonwealth of Northern Mariana Islands -: no reported cases

\*Individual cases may be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the

Public Health Laboratory Information System (PHLIS). <sup>†</sup>Updated monthly from reports to the Division of HIV/AIDS Prevention–Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention, last update August 29, 1999.

	Gond	orrhea	Hepatitis C/NA,NB		Legion	ellosis	Lyme Disease		
Reporting Area	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	
UNITED STATES	208,897	231,736	2,259	2,182	550	866	6,651	10,283	
NEW ENGLAND Maine N.H.	3,976 42 69	3,977 41 61	59 2	47	41 4 4	50 1 3	1,860 22 5	3,398 58 28	
Mass. R.I. Conn	1,724 391 1,716	1,430 249 2 172	50 3	42 3	0 16 3 6	25 8 9	749 284 791	605 320 2 378	
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	26,400 4,385 9,463 4,055 8,497	24,909 4,688 7,994 5,173 7,054	97 62 - 35	149 75 - 74	107 35 9 5 58	216 69 30 14 103	3,639 2,651 27 247 714	5,323 2,740 164 917 1,502	
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	37,635 10,162 3,754 13,605 10,114 U	45,075 11,301 4,211 14,833 10,620 4,110	1,173 1 25 560 586	489 7 5 34 330 113	157 56 24 10 43 24	292 95 55 36 57 49	90 58 16 10 1 5	587 32 24 11 12 508	
W.N. CENTRAL Minn. Iowa Mo. N. Dak.	9,230 1,746 452 4,448 31	11,367 1,738 923 6,071 53	89 4 - 76 -	27 7 7 10	31 4 11 11 -	48 5 7 12	116 71 10 16 1	136 96 22 11	
S. Dak. Nebr. Kans.	939 1,491	762 1,654	- 3 6	2 1	3	3 15 6	6 12	3 4	
S. ATLANTIC Del. Md. D.C.	61,804 1,159 5,969 1,357 6,480	62,241 933 5,743 3,010 5 708	150 1 34 -	71 - 8 - 11	84 8 16 1 20	101 9 27 6 16	721 22 512 3 79	644 54 462 4	
W. Va. N.C. S.C. Ga. Fla.	311 13,510 4,413 14,359 14,246	578 12,851 7,713 13,558 12,147	13 30 17 1 44	4 17 3 9 19	N 13 7 19	N 8 7 7 21	14 56 5 30	8 41 3 5 20	
E.S. CENTRAL Ky. Tenn. Ala. Miss.	22,962 2,091 7,687 7,680 5,504	26,278 2,483 7,813 8,832 7,150	195 13 83 1 98	202 16 119 4 63	31 14 14 3	48 24 12 5 7	70 6 36 17 11	73 18 31 14 10	
W.S. CENTRAL Ark. La. Okla. Tex.	30,131 2,002 6,054 2,665 19,410	36,478 2,737 8,310 3,631 21,800	144 8 100 12 24	336 13 24 8 291	3 - 1 2 -	14 1 2 8 3	24 4 - 4 16	17 6 3 2 6	
MOUNTAIN Mont. Idaho Wyo.	5,949 28 54 14	6,083 29 123 18	101 4 6 31	291 7 85 69	35 - 1	50 2 2 1	11 - 2 3	11 - 3 1	
Colo. N. Mex. Ariz. Utah Nev.	1,547 379 3,044 124 759	1,371 592 2,805 160 985	18 7 22 5 8	19 70 4 19 18	9 1 5 13 6	12 2 11 16 4	- 1 - 3 2	- 3 - 4	
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	10,810 1,358 544 8,464 207 237	15,328 1,285 530 12,957 217 339	251 13 15 223	570 13 14 489 54	61 10 N 50 1	47 9 N 36 1 1	120 4 10 106 -	94 5 13 75 1	
Guam P.R. V.I. Amer. Samoa C.N.M.I.	32 193 U U	38 275 U U 26	- - U U -	- U U -	- - - - -	2 U U	- - - - -	- U U -	

## TABLE II. (Cont'd.) Provisional cases of selected notifiable diseases, United States,<br/>weeks ending September 4, 1999, and September 5, 1998 (35th Week)

N: Not notifiable U: Unavailable -: no reported cases

		<u> </u>			Salmonellosis*					
	Ма	laria	Rabies,	Animal	NE	TSS	PHLIS			
Reporting Area	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998		
UNITED STATES	820	947	3,847	5,090	21,987	25,963	17,985	22,695		
NEW ENGLAND	33	43	569	999	1,092	1,685	1,267	1,591		
N.H.	3	3	38	52	94 91	119	101	170		
Vt.	4	-	71	43	62	91	52	71		
R.I.	3	3	71	61	70	86	48	32		
Conn.	8	18	153	329	U	331	288	328		
MID. ATLANTIC	180 51	280 58	724 524	1,120 785	2,556 829	4,329 1.036	2,399 773	4,176 982		
N.Y. City	79	162	U	U	868	1,366	682	1,148		
Pa.	29	25	73	141	527	1,036	409	1,115		
E.N. CENTRAL	81	109	82	84	3,274	4,321	2,209	3,243		
Ohio Ind.	18 12	9 10	28	46 7	811 328	1,019 481	593 264	841 389		
III.	20	45	5	-	1,078	1,337	399	933		
Wis.	27	36	46 3	28	643 414	679	332	361		
W.N. CENTRAL	49	66	497	536	1,504	1,553	1,401	1,608		
lviinn. Iowa	12	36	80 102	90 118	445 170	367	4// 121	434 215		
Mo.	12	12	12	28	448	439	597	594		
S. Dak.	-	-	117	102	71	76	58	83		
Nebr. Kans.	- 4	1 8	2 76	6 71	131 201	122 239	- 144	29 198		
S. ATLANTIC	240	187	1,419	1,677	5,081	4,787	3,518	3,824		
Del. Md	1 67	1 57	34 278	31 337	97 565	53 593	110 551	91 587		
D.C.	13	13	-	-	53	51	-	-		
Va. W. Va.	51 1	38 1	353 80	409 60	879 106	667 106	707 105	616 108		
N.C.	19 10	15	292	436	774	676	828	863		
Ga.	21	25	143	166	710	900	651	901		
Fla.	57	32	132	134	1,534	1,407	304	332		
E.S. CENTRAL Ky.	18	22	31	212	278	265	619	1,091		
Ténn.	7	11	64 95	112	330 370	373	324	497 387		
Miss.	1	2	-	2	214	311	53	83		
W.S. CENTRAL	10	21	77	26	1,581	2,520	1,863	1,987		
Ark. La.	6	7	- 14	- 20	159	309	370	242 481		
Okla. Tex	2	2 11	63	-	228 855	287 1 601	199 1 178	130 1 134		
MOUNTAIN	32	46	134	162	2,031	1,677	1,374	1,485		
Mont.	4	- 7	46	36	42	60	1	39		
Wyo.	1	-	32	52	34	45	22	41		
Colo. N. Mex.	14 2	12 11	1 6	22 5	529 247	398 203	537 174	379 188		
Ariz.	5	8	43	33	636	526	525	512		
Nev.	2 1	1 7	4	3	358 118	232 134	53	137		
PACIFIC	177	173	155	274	3,676	3,703	3,335	3,690		
Oreg.	15	13	- 1	2	324	211	379	245		
Calif. Alaska	136 1	138	147 7	249 23	2,631	2,989 37	2,163	2,773 20		
Hawaii	7	4	-	-	259	151	211	193		
Guam PB	-	2	-	- 27	20 254	21 //88	-	-		
V.I.	Ū	U	U	U	-	-+00	-	-		
Amer. Samoa C.N.M.I.	U -	U -	U -	U -	-	- 25	-	-		

## TABLE II. (Cont'd.) Provisional cases of selected notifiable diseases, United States, weeks ending September 4, 1999, and September 5, 1998 (35th Week)

N: Not notifiable U: Unavailable -: no reported cases \*Individual cases may be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

		Shige	llosis*		Syp	hilis			
	NETSS PHLIS			ILIS	(Primary &	Secondary)	Tuber	culosis	
Reporting Area	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999†	Cum. 1998†	
UNITED STATES	8,988	13,144	4,112	7,399	4,205	4,729	9,430	10,860	
NEW ENGLAND	380	310	377	281	36	50	274	306	
N.H.	4 12	10	- 11	- 15	-	1	13	-	
Vt.	4	6	3		3	4	1	3	
Mass. R I	343 17	205 23	315	198 13	22	31 1	156 28	175	
Conn.	Ű	56	39	55	10	12	64	84	
MID. ATLANTIC	555	1,713	303	1,376	155	209	1,724	1,936	
Upstate N.Y.	198 182	364 550	42 82	117 518	22 67	28 45	209 911	239 942	
N.J.	102	510	121	523	37	69	361	414	
Pa.	72	289	58	218	29	67	243	341	
E.N. CENTRAL	1,586	1,895 367	726	1,002	788	690 95	842 174	1,111	
Ind.	171	119	42	33	272	125	55	105	
III. Mich	637	1,017	354	833	298	290	381	526	
Wis.	186	206	65	43	152 U	50	39	73	
W.N. CENTRAL	764	740	512	428	90	95	294	299	
Minn.	160	236	181	269	7	6	101	99	
lowa Mo.	20 499	52 84	279	36 59	60	73	29 119	106	
N. Dak.	2	6	-	3	-	-	2	6	
S. Dak. Nebr	11	29 307	5	20 16	-	1	12 12	14 11	
Kans.	34	26	31	25	10	11	19	36	
S. ATLANTIC	1,610	2,823	338	887	1,416	1,718	1,986	1,868	
Del. Md	12 102	17 138	5 28	18 48	6 259	17 475	12 177	27 202	
D.C.	38	16	-	-	35	60	33	76	
Va. W. Va	81 7	131	42	65 7	113	108	168 30	187 30	
N.C.	150	215	66	101	353	492	306	278	
S.C.	94	114	42	47	181	195	194	204	
Fla.	985	1,395	115	409	240	181	646	517	
E.S. CENTRAL	825	583	393	392	766	816	610	771	
Ky. Topp	183	88	-	45	64	73	112	113	
Ala.	77	343	40	176	153	190	209	269	
Miss.	55	38	5	4	104	169	56	145	
W.S. CENTRAL	1,185	2,535	973	794	598	714	1,017	1,572	
La.	76	176	72	197	121	288	U	127	
Okla.	357	238	123	60	136	40	92	118	
	692	1,987	757	498	301	303	808	1,251	
Mont.	7	8	- 544	3	- 104	-	10	15	
Idaho	17	15	7	11	1	2	14	7	
Colo.	103	132	80	103	- 1	8	Ŭ	43	
N. Mex.	82	193	40	98	10	22	42	41	
Ariz. Utah	306	411 30	209	257	144	122	30	42	
Nev.	42	23	6	8	6	13	27	78	
PACIFIC	1,482	1,732	146	1,735	192	266	2,403	2,630	
Wash. Oreg.	68 57	104 98	65 58	110 96	48	23	128 66	1/8	
Calif.	1,331	1,496	-	1,496	135	236	2,055	2,204	
Alaska Hawaii	- 26	4 30	- 23	2 31	1	1	40 114	36 119	
Guam	7	29	-	-	<u>د</u> 1	- 1	-	60	
P.R.	60	43	-	-	109	139	41	108	
V.I. Amer Samoa	-	-	-	-	U	U	U	U	
C.N.M.I.	-	17	-	-	-	163	-	75	

## TABLE II. (Cont'd.) Provisional cases of selected notifiable diseases, United States,weeks ending September 4, 1999, and September 5, 1998 (35th Week)

 N: Not notifiable
 U: Unavailable
 -: no reported cases

 \*Individual cases may be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

 \*Cumulative reports of provisional tuberculosis cases for 1999 are unavailable ("U") for some areas using the Tuberculosis Information System (TIMS).

H. influenzae,			Н	lepatitis (Vi	iral), by ty	ре		Measles (Rubeola)					
	inva	sive		A		В	Indi	genous	Imp	orted*	Το	tal	
Reporting Area	Cum. 1999†	Cum. 1998	Cum. 1999	Cum. 1998	Cum. 1999	Cum. 1998	1999	Cum. 1999	1999	Cum. 1999	Cum. 1999	Cum. 1998	
UNITED STATES	803	769	10,030	15,203	4,280	6,570	1	37	-	19	56	50	
NEW ENGLAND	59	49	146	205	69	142	-	6	-	4	10	3	
Maine N.H.	5 14	2	5 10	16 9	1 10	2 11	-	-	-	- 1	- 1	-	
Vt.	5	5	6	13	2	6	-	-	-	-	-	1	
Mass. R I	22 1	31 2	54 13	83 12	31 25	53 48	-	5	-	2	7	2	
Conn.	12	1	58	72	-	22	-	1	-	1	2	-	
MID. ATLANTIC	128	122	654	1,168	484	860	-	-	-	2	2	13	
Upstate N.Y.	62 28	41 35	177 171	236 402	139 143	164 299	-	-	-	2	2	2	
N.J.	37	39	57	238	40	154	-	-	-	-	-	8	
Pa.	1	7	249	292	162	243	-	-	-	-	-	3	
E.N. CENTRAL	127 46	132 42	1,916 468	2,349 230	432	970 55	-	1	-	1	2	15 1	
Ind.	20	32	77	108	33	78	-	1	-	-	1	3	
III. Mich	51 10	48	362	551	- 221	171	-	-	-	- 1	- 1	- 10	
Wis.	-	5	26	1,310	1	368	-	-	-	-	-	1	
W.N. CENTRAL	60	69	525	1,078	225	277	-	-	-	-	-	-	
Minn.	24	54	53	90 369	37 27	30	-	-	-	-	-	-	
Mo.	21	8	296	494	124	167	-	-	-	-	-	-	
N. Dak.	1	-	1	3	-	4	-	-	-	-	-	-	
Nebr.	3	-	40	21	11	11	Ū	-	Ū	-	-	-	
Kans.	4	5	35	80	25	19	-	-	-	-	-	-	
S. ATLANTIC	190	142	1,352	1,246	816	674	-	1	-	4	5	8	
Md.	49	44	249	275	121	101	-	-	-	-	-	1	
D.C.	4	-	48 105	43 156	17 65	9 74	-	- 1	-	- 2	- 2	- 2	
W. Va.	6	5	26	3	17	5	-	-	-	-	-	-	
N.C.	28	23	108	76	147	149	-	-	-	-	-	-	
Ga.	49	30	333	361	108	123	-	-	-	-	-	2	
Fla.	35	23	452	306	283	188	-	-	-	2	2	2	
E.S. CENTRAL	51	42	281	281	319	341	-	-	-	-	-	2	
Tenn.	29	23	142	161	173	190	-	-	-	-	-	- 1	
Ala.	15	10	40	52	58	47	-	-	-	-	-	1	
MISS.	2 // 1	20	43	2 602	402	1 472	-	5	-	2	-	-	
Ark.	2		38	2,033	34	68	-	-	-	-	-	-	
La.	7 28	17 20	59 336	47 399	72	66 59	-	-	-	-	-	-	
Tex.	4	20	1,308	2,181	292	1,279	-	5	-	3	8	-	
MOUNTAIN	69	86	923	2,334	426	583	1	3	-	-	3	-	
Mont. Idaho	1	-	16 31	72 188	16 21	5 24	-	-	-	-	-	-	
Wyo.	1	1	4	29	10	3	-	-	-	-	-	-	
Colo. N Mex	10 18	18 4	161 36	193 108	65 141	74 227	-	-	-	-	-	-	
Ariz.	30	42	554	1,442	112	136	-	1	-	-	1	-	
Utah	6	3 18	35 86	143 159	24 37	52 62	1	2	-	-	2	-	
PACIFIC	78	88	2 492	3 849	1 017	1 251	_	21	_	5	26	9	
Wash.	3	6	221	768	45	68	-	-	-	-	-	1	
Oreg. Calif	30 36	36 38	184 2 072	296 2 7 2 9	58 892	130 1 034	-	9 12	-	-	9 16	- 7	
Alaska	5	1	2,072	15	12	10	-	-	-	-	-	1	
Hawaii	4	7	10	41	10	9	-	-	-	1	1	-	
Guam PB	- 1	- 2	2 110	1 17	2 101	2 177	U	1	U	-	1	-	
V.I.	Ů	Ú	Ŭ	Ű	Ű	Ű	U	Ū	Ū	Ū	Ū	Ū	
Amer. Samoa C.N.M.I.	U	U	U	U	U	U 47	UU	U	UU	U	U	U	

## TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination,<br/>United States, weeks ending September 4, 1999,<br/>and September 5, 1998 (35th Week)

N: Not notifiable U: Unavailable -: no reported cases

\*For imported measles, cases include only those resulting from importation from other countries.

<sup>†</sup>Of 156 cases among children aged <5 years, serotype was reported for 80 and of those, 21 were type b.

	Mening Dise	jococcal ease		Mumps		Pertussis			Rubella		
Departing Area	Cum.	Cum.	4000	Cum.	Cum.	4000	Cum.	Cum.	4000	Cum.	Cum.
	1999	1998	1999	1999 224	486	1999	1999 3 537	3 892	1999	1999 179	329
NEW ENGLAND	85	82	-	4	4	5	415	678	-	7	38
Maine N.H.	5 12	5 10	-	- 1	-	- 1	- 70	5 56	-	-	-
Vt. Mass	4 48	1 38	-	1 2	- 3	2	40 274	60 519	-	- 7	- 8
R.I.	4	3	-	-	-	-	20	7	-	-	1
MID. ATLANTIC	158	202	2	- 27	171	- 7	622	402	- 1	22	143
Upstate N.Y. N.Y. City	44 42	52 24	2	8 3	3 153	7	536 10	213 23	1	18	113 16
N.J. Pa	39 33	48 78	-	- 16	6 9	-	12 64	13 153	-	1 3	13 1
E.N. CENTRAL	282	303	-	28	61	7	321	493	-	2	-
Ohio Ind.	112 38	109 52	-	11 4	23 5	2 3	151 46	183 77	-	- 1	-
III. Mich.	76 34	81 37	-	6 7	9 22	2	46 35	50 45	-	1	-
Wis.	22	24	-	-	2	-	43	138	-	-	-
W.N. CENTRAL Minn.	180 38	165 28	-	10 1	25 12	48 48	222 126	298 168	-	83 5	32
lowa Mo.	32 69	27 63	-	4 2	9 3	-	29 36	57 22	-	28 2	2
N. Dak. S. Dak.	3 11	3 6	-	-	1	-	4 5	3 8	-	-	-
Nebr. Kans	9 18	11 27	U	-3	-	U	1 21	13 27	U	48	30
S. ATLANTIC	297	311	-	38	34	15	277	208	3	35	13
Del. Md.	6 44	1 24	-	- 3	-	- 1	4 71	3 36	-	- 1	- 1
D.C. Va.	1 35	- 27	-	2 8	- 6	-	- 13	1 19	-	-	-
W. Va. N.C.	5 34	12 46	-	- 8	10	- 10	2	1 74	- 3	- 34	- 9
S.C.	34	46	-	3	5	-	14	22 18	-	-	-
Fla.	89	83	-	11	12	4	75	34	-	-	3
E.S. CENTRAL Kv.	115 22	136 22	1	9	13	-	64 16	91 37	-	1	1
Ténn. Ala	47 27	49 39	- 1	- 8	1 7	-	29 15	30 20	-	- 1	1
Miss.	19	26	-	1	5	-	4	4	-	-	-
W.S. CENTRAL Ark.	149 32	223 26	-	29	46 7	2 2	123 17	249 50	-	7	87 -
La. Okla.	34 25	42 30	-	3 1	6	-	3 12	5 20	-	-	-
Tex.	58 101	125	-	25 12	33	-	91 204	174	-	7	87
Mont.	2	4	-	-	-	-	2	7	-	-	-
Wyo.	8	9 5	-	1	4	-	93	168	-	-	-
Colo. N. Mex.	27 13	21 18	N	3 N	6 N	2 6	126 86	173 76	1	3	- 1
Ariz. Utah	29 13	35 10	-	- 5	5 4	- 1	30 52	140 59	-	13 1	1 2
Nev.	6	6	-	3	10	-	3	32	-	1	1
Wash.	51	53	-	2	102	3	1,099 543	223	-	4	5
Oreg. Calif.	57 214	63 255	N -	N 54	N 74	1 2	28 501	61 499	-	- 4	3
Alaska Hawaii	5 4	2 4	-	1 10	2 19	- 1	4 23	14 13	-	-	2
Guam	1	2	U	1	2	U	1	- A	U	-	-
V.I.	U	U	U.	, U	Ŭ	U,	U	4 U	U.	U.	U
Amer. Samoa C.N.M.I.	U -	U -	U	U -	2	U	U -	1	U	U -	-

# TABLE III. (Cont'd.) Provisional cases of selected notifiable diseases preventable<br/>by vaccination, United States, weeks ending September 4, 1999,<br/>and September 5, 1998 (35th Week)

N: Not notifiable U: Unavailable -: no reported cases

	A	II Cau	ses, By	/ Age (Y	'ears)		P&I <sup>↑</sup>		Å	All Cau	ises, By	Age (Y	ears)		P&I <sup>†</sup>
Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn.	426 131 29 13 25 U 29 9 23 46 U 2 41 25 55	296 80 17 12 23 U 23 5 16 33 U 2 8 7 28 28 7 40	81 29 10 1 3 2 1 6 U - 11 4 13	333 15 2 1 U 2 2 2 5 U 1 2 1	11 5 - U - 3 1 U - 3 1 U - 1	52 	32 8 1 2 2 U 2 - 1 U - 6 1 9	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del. E.S. CENTRAL	903 U 204 81 150 99 44 49 66 44 151 U 15 838	601 U 129 51 98 61 29 33 50 33 102 U 15 560	187 U 40 22 38 22 4 8 11 11 31 U - 153	75 U 27 5 9 11 3 4 3 - 13 U - 79	29 U 8 3 5 3 4 3 U 27	10 U 2 5 2 1 U 17	64 U 24 12 2 1 4 3 1 7 0 U 0 5 3
MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.	1,889 31 U U 18 U 36	1,324 25 U U 12 U 31	350 5 U U 4 U	144 1 U U 1 U 4	38 U U 1 U	33 U U U 1	57 1 U U 1 U	Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	165 51 72 59 210 101 48 132	115 35 50 46 139 63 32 80	27 6 13 10 38 23 11 25	16 7 6 3 17 9 4 17	4 2 1 - 11 2 1 6	2 1 2 - 5 4 - 3	15 4 - 20 1 6 12
Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa. Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	40 1,104 U 381 42 23 111 23 24 31 11 11 14 U	25 756 U 264 32 20 83 20 83 20 26 6 11 U	6 219 U 69 7 2 8 9 2 2 4 3 U	8 86 U 31 2 1 5 - 2 2 1 - U	1 20 U 10 1 - - 1 - U	23 U U 7 - 1 1 - U	- 18 U 22 4 2 1 3 - 1 2 1 U	W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	1,161 92 38 62 203 66 124 308 54 61 U 57 96	705 57 25 44 120 45 89 185 29 10 U 39 62	253 20 7 6 50 12 17 74 16 20 U 10 21	122 10 5 7 22 6 11 36 5 12 U 4 4	34 3 1 3 6 1 7 4 5 U 2 1	47 2 5 2 6 6 14 U 2 8	56 5 2 4 3 13 18 3 - U 5 3
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind.	1,817 64 325 125 131 173 113 U 43 73	1,245 46 25 202 81 91 111 81 U 32 54	335 12 8 75 29 21 39 23 U 7 3	134 1 35 3 10 15 5 U 3 10	48 1 10 5 2 3 U 1 3	55 4 1 3 7 6 1 U 3	113 1 24 3 13 4 U 3 1	MOUNTAIN Albuquerque, N.M. Boise, Idaho Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz.	801 101 37 60 100 177 U 65 30 103 128	537 67 25 37 53 116 U 45 25 67 102	165 25 8 15 27 41 U 13 21 13	64 6 7 11 12 U 7 3 9 7	18 2 1 - 5 5 U - 2 3	16 1 1 4 3 U - 4 2	43 3 4 10 5 U 3 4 6 6
Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio	17 79 195 39 108 53 51 40 100 54	7 60 125 29 76 42 36 31 75 41	5 10 39 5 17 7 12 5 13 5	14 15 51 11 22 65	2 4 7 3 1 1 2 1	2 1 9 - 1 2 1 1 4 2	4 18 13 3 10 1	PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif.	1,145 15 U 16 79 61 352 22 U U	794 7 12 55 47 248 14 U	216 7 U 14 7 59 6 U U	82 1 3 5 1 32 1 U U	28 U 5 3 8 U U	25 U 3 5 1 U U	88 1 2 6 7 27 2 U U
W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	562 U 40 93 43 130 84 117 55 U	405 U 28 U 65 32 99 67 70 44 U	100 9 U 17 9 17 11 29 8 U	35 U 2 U 7 2 8 3 11 2 U	9 U 1 U 2 - 3 1 2 U	13 U 2 3 2 5 1 U	21 U - U 4 11 3 - 2 U	San Diego, Calif. San Francisco, Calif San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	133 U 175 29 132 47 84 9,542 <sup>¶</sup>	88 U 128 22 82 35 56 6,467	23 U 29 6 36 10 18 1,840	13 U 10 1 7 1 7 768	1 U 4 1 2 242	8 U 4 - 3 - 1 221	10 U 19 3 3 3 537

## TABLE IV. Deaths in 122 U.S. cities,\* week ending September 4, 1999 (35th Week)

U: Unavailable -: no reported cases \*Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included. \*Pneumonia and influenza. \*Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. Total includes unknown ages.

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