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## Racial Disparities in Total Knee Replacement Among Medicare Enrollees - United States, 2000-2006

An estimated $45 \%$ of U.S. adults might be at risk for developing symptomatic knee osteoarthritis during their lifetimes, with whites and blacks at equal risk for this common disabling condition (1). Total knee replacement (TKR) is an effective method of reducing pain and improving physical function among those with disabling knee osteoarthritis; however, whites have been more likely to undergo the procedure than blacks (2-4). As a result, a Healthy People 2010 objective* calls for eliminating racial disparities in the rate of TKR among persons aged $\geq 65$ years (5). To monitor progress toward achieving this objective, CDC analyzed national and state TKR rates for Medicare enrollees for the period 2000-2006, stratified by sex, age group, and black or white race. From 2000 to 2006, the TKR rate overall in the United States increased $58 \%$, from 5.5 to 8.7 per 1,000 population, with similar increases among whites ( $61 \%$ ) and blacks ( $56 \%$ ). However, the TKR rate for blacks was $37 \%$ lower than the rate for whites in 2000 (3.6 versus 5.7 per 1,000 population) and $39 \%$ lower in 2006 ( 5.6 versus 9.2 per 1,000 population). Health-care providers and public health agencies might help reduce this disparity by widely distributing TKR information that is tailored to the education and literacy levels and culture of patients with symptomatic knee osteoarthritis. Health-care providers should conduct, as routine practice, thorough discussions regarding knee pain symptoms and loss of physical function with older patients of all races who might be candidates for TKR (2).

[^0]National and state TKR rates for Medicare enrollees were calculated using 2000-2006 hospital claims and enrollment record data obtained from the Centers for Medicare and Medicaid Services. Analysis was restricted to U.S. residents in the 50 states and District of Columbia (DC) who were aged $\geq 65$ years, entitled to Medicare Part A, and not members of managed care organizations. TKR rates were calculated per 1,000 members of this group, using population estimates on July 1 of the given year. Eligible TKR procedures were defined as International Classification of Diseases, Ninth Revision, Clinical Modification code 81.54 (total knee replacement) on hospital claims records from acute care, short-term hospitals. Partial knee replacements were excluded because they represent only $8 \%$ of all knee replacement procedures ( 6 ). Annual TKR rates and $95 \%$ confidence intervals were calculated for adults aged $\geq 65$ years overall and by age group ( $65-74,75-84$, and $\geq 85$ years), sex, black or white race, and state. For this report, estimates by race are presented only for blacks and whites because Medicare race/ethnicity data for other populations (e.g., Asians and Hispanics) are underreported and might produce misleading results ( 7 ).
Unadjusted national and state estimates were calculated to describe the actual disparity in each jurisdiction for program planning and resource allocation (8). Age-adjusted national

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rates using the 2000 projected U.S. population ${ }^{\dagger}$ also were calculated to monitor the trend in TKR black/white disparity. Percentage changes in TKR rates from 2000 to 2006 were calculated for blacks and whites, and percentage differences between blacks and whites undergoing TKR were calculated for both years.
In 2000, a total of 26,585,955 Medicare enrollees met the study inclusion criteria; in 2006, the total was $28,382,683$. The number of hospitalizations for TKR among Medicare enrollees in the study increased from 145,242 in 2000 to 248,267 in 2006 (Table 1), and the overall TKR rate increased $58 \%$ (from 5.5 to 8.7 per 1,000 population). Similar increases were observed by sex, age group, and black or white race (Table 1). In both years, the total number of procedures performed was highest among those aged 65-74 years, but the TKR rate was highest among those aged $75-84$ years. TKR rates increased in all states from 2000 to 2006, with the greatest increases in Arkansas (84\%), Mississippi (84\%), and Delaware (83\%), and the lowest increases in Iowa ( $35 \%$ ), New Mexico ( $35 \%$ ), and Idaho (38\%). In 2006, TKR rates ranged from 13.9 in Utah to 4.5 in Hawaii.
TKR rates were $37 \%$ lower among blacks than whites (3.6 versus 5.7 per 1,000 population) in 2000 , and $39 \%$ lower in 2006 ( 5.6 versus 9.2) (Table 2, Figure). In both years, the black/white disparity was lower among women ( $23 \%$ and $28 \%$ ) than among men ( $63 \%$ and $60 \%$ ). In 2006, blacks had a lower TKR rate than whites in all 50 states and DC; the smallest black/white disparities were in DC (11\%), Delaware (18\%), Massachusetts ( $18 \%$ ), and Nevada (18\%), and the largest were in Illinois ( $52 \%$ ) and Pennsylvania (49\%). From 2000 to 2006, the black/white disparity increased across all three age groups, among women (but not among men), and in 19 states (Table 2).
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Editorial Note: Racial disparity in TKR procedures is an important social and public health problem, underscored by adoption of a Healthy People 2010 objective to eliminate racial disparities in TKR procedures. The findings in this report, however, confirm that little or no progress was made toward achieving this objective from 2000 to 2006 . Although the numbers and rates of TKR procedures increased among Medicare enrollees in all demographic groups from 2000 to 2006, the disparity in rates between whites and blacks persisted in the nation overall and increased in 19 states.

[^2]TABLE 1. Numbers and unadjusted rates* of total knee replacement (TKR) ${ }^{\dagger}$ among Medicare enrollees, ${ }^{\S}$ by sex, age group, white or black race, and state - United States, 2000 and 2006

| Characteristic | 2000 |  | 2006 |  | Increase from 2000 to 2006** (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Rate (95\% CII) | No. | Rate (95\% CI) |  |
| Overall ${ }^{\dagger \dagger}$ | 145,242 | 5.5 (5.4-5.5) | 248,267 | 8.7 (8.7-8.8) | 58 |
| Sex |  |  |  |  |  |
| Women | 94,871 | 6.1 (6.0-6.1) | 159,882 | 9.8 (9.8-9.9) | 61 |
| Men | 50,371 | 4.6 (4.6-4.7) | 88,385 | 7.3 (7.3-7.4) | 59 |
| Age group (yrs) |  |  |  |  |  |
| 65-74 | 74,153 | 5.4 (5.4-5.5) | 132,533 | 9.1 (9.0-9.1) | 69 |
| 75-84 | 62,146 | 6.6 (6.5-6.6) | 100,273 | 10.2 (10.1-10.2) | 55 |
| $\geq 85$ | 8,943 | 2.6 (2.5-2.6) | 15,461 | 4.0 (3.9-4.0) | 54 |
| Race |  |  |  |  |  |
| White | 133,012 | 5.7 (5.6-5.7) | 226,829 | 9.2 (9.1-9.2) | 61 |
| Black | 7,630 | 3.6 (3.5-3.7) | 12,656 | 5.6 (5.5-5.7) | 56 |
| State |  |  |  |  |  |
| Alabama | 2,604 | 5.2 (5.0-5.4) | 4,265 | 8.4 (8.1-8.6) | 62 |
| Alaska | 199 | 5.8 (5.0-6.6) | 428 | 9.9 (9.0-10.8) | 71 |
| Arizona | 2,172 | 6.0 (5.7-6.2) | 4,003 | 9.1 (8.8-9.4) | 52 |
| Arkansas | 1,736 | 5.1 (4.9-5.4) | 3,341 | 9.4 (9.1-9.7) | 84 |
| California | 8,123 | 4.5 (4.4-4.6) | 15,966 | 7.3 (7.1-7.4) | 62 |
| Colorado | 1,555 | 6.3 (6.0-6.6) | 3,521 | 11.5 (11.1-11.9) | 83 |
| Connecticut | 1,464 | 4.2 (3.9-4.4) | 2,907 | 7.0 (6.7-7.2) | 67 |
| Delaware | 500 | 5.4 (4.9-5.9) | 1,067 | 9.9 (9.3-10.5) | 83 |
| District of Columbia | 200 | 3.6 (3.1-4.0) | 323 | 6.0 (5.3-6.6) | 67 |
| Florida | 9,928 | 5.5 (5.4-5.6) | 16,968 | 8.6 (8.4-8.7) | 56 |
| Georgia | 3,533 | 5.1 (4.9-5.3) | 6,424 | 8.4 (8.2-8.6) | 65 |
| Hawaii | 256 | 2.7 (2.3-3.0) | 447 | 4.5 (4.1-4.9) | 67 |
| Idaho | 1,123 | 8.8 (8.3-9.3) | 1,649 | 12.1 (11.5-12.6) | 38 |
| Illinois | 7,150 | 5.8 (5.6-5.9) | 12,173 | 9.2 (9.1-9.4) | 59 |
| Indiana | 4,251 | 6.1 (5.9-6.3) | 6,828 | 9.6 (9.4-9.8) | 57 |
| lowa | 3,739 | 9.2 (8.9-9.5) | 4,781 | 12.4 (12.1-12.8) | 35 |
| Kansas | 2,593 | 8.2 (7.9-8.5) | 3,921 | 12.1 (11.7-12.5) | 48 |
| Kentucky | 2,114 | 4.7 (4.5-4.9) | 3,824 | 8.0 (7.7-8.3) | 70 |
| Louisiana | 1,902 | 4.8 (4.6-5.0) | 3,388 | 8.2 (7.9-8.4) | 71 |
| Maine | 977 | 5.5 (5.2-5.9) | 1,518 | 8.1 (7.7-8.5) | 47 |
| Maryland | 2,740 | 5.5 (5.3-5.7) | 5,066 | 9.1 (8.8-9.3) | 65 |
| Massachusetts | 2,514 | 4.2 (4.1-4.4) | 4,633 | 7.1 (6.9-7.3) | 69 |
| Michigan | 7,148 | 6.4 (6.2-6.5) | 12,101 | 10.4 (10.2-10.6) | 63 |
| Minnesota | 3,833 | 7.8 (7.5-8.0) | 5,854 | 13.4 (13.1-13.8) | 72 |
| Mississippi | 1,426 | 4.4 (4.2-4.7) | 2,594 | 8.1 (7.8-8.4) | 84 |
| Missouri | 3,825 | 6.3 (6.1-6.5) | 6,040 | 9.6 (9.4-9.9) | 52 |
| Montana | 779 | 6.6 (6.2-7.1) | 1,311 | 11.1 (10.5-11.7) | 68 |
| Nebraska | 1,801 | 8.4 (8.0-8.8) | 2,741 | 13.1 (12.6-13.6) | 56 |
| Nevada | 566 | 4.1 (3.8-4.5) | 1,277 | 7.2 (6.8-7.6) | 76 |
| New Hampshire | 759 | 5.3 (4.9-5.7) | 1,198 | 7.5 (7.1-7.9) | 42 |
| New Jersey | 3,045 | 3.4 (3.3-3.6) | 5,691 | 6.0 (5.8-6.1) | 76 |
| New Mexico | 846 | 5.5 (5.1-5.8) | 1,269 | 7.4 (7.0-7.8) | 35 |
| New York | 6,473 | 3.7 (3.6-3.8) | 10,293 | 5.9 (5.8-6.0) | 59 |
| North Carolina | 4,728 | 5.3 (5.2-5.5) | 7,782 | 8.4 (8.2-8.6) | 58 |
| North Dakota | 701 | 7.7 (7.1-8.3) | 1,022 | 11.9 (11.1-12.6) | 55 |
| Ohio | 6,845 | 5.8 (5.6-5.9) | 11,775 | 9.6 (9.4-9.8) | 66 |
| Oklahoma | 2,357 | 6.1 (5.9-6.4) | 3,921 | 10.0 (9.7-10.3) | 64 |
| Oregon | 1,608 | 6.3 (6.0-6.6) | 2,528 | 9.1 (8.7-9.4) | 44 |
| Pennsylvania | 7,053 | 5.5 (5.3-5.6) | 10,772 | 8.7 (8.5-8.9) | 58 |
| Rhode Island | 334 | 3.7 (3.3-4.1) | 502 | 5.9 (5.4-6.4) | 59 |
| South Carolina | 2,490 | 5.5 (5.2-5.7) | 4,376 | 8.9 (8.6-9.1) | 62 |
| South Dakota | 859 | 8.2 (7.6-8.7) | 1,402 | 13.0 (12.4-13.7) | 59 |
| Tennessee | 2,834 | 4.5 (4.3-4.6) | 4,789 | 7.8 (7.5-8.0) | 73 |
| Texas | 9,476 | 5.9 (5.8-6.0) | 17,668 | 9.3 (9.1-9.4) | 58 |
| Utah | 1,414 | 8.1 (7.7-8.6) | 2,376 | 13.9 (13.4-14.5) | 72 |
| Vermont | 361 | 4.8 (4.3-5.3) | 594 | 7.4 (6.8-8.0) | 54 |
| Virginia | 3,407 | 4.7 (4.6-4.9) | 6,377 | 8.2 (8.0-8.4) | 74 |
| Washington | 2,514 | 5.5 (5.3-5.7) | 5,109 | 9.0 (8.7-9.2) | 64 |
| West Virginia | 1,269 | 5.2 (4.9-5.5) | 2,111 | 8.6 (8.2-9.0) | 65 |
| Wisconsin | 4,736 | 7.3 (7.1-7.5) | 6,626 | 11.2 (10.9-11.4) | 53 |
| Wyoming | 382 | 6.9 (6.2-7.6) | 727 | 12.3 (11.4-13.2) | 78 |

* Per 1,000 population.
$\dagger$ Defined as International Classification of Diseases, Ninth Revision, Clinical Modification code 81.54 (total knee replacement) on hospital claims records from acute care, short-term hospitals.
§ U.S. residents in the 50 states or District of Columbia who were aged $\geq 65$ years, entitled for Medicare Part A, and not members of managed care organizations.
${ }^{7}$ Confidence interval.
${ }^{* *}$ The overall percentage increase might not be consistent with the percentage increases for subpopulations because of rounding.
$\dagger \dagger$ Includes persons in all racial/ethnic groups.

TABLE 2. Comparison of numbers and unadjusted rates* of total knee replacement (TKR) ${ }^{\dagger}$ among Medicare enrollees ${ }^{\S}$ of black or white race, by sex, age group, and state - United States, 2000 and 2006

| Characteristic | 2000 |  |  |  |  | 2006 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Black |  | White |  | Difference between black and white ${ }^{\star *}$ (\%) | Black |  | White |  | Difference between black and white** (\%) |
|  | No. | $\begin{gathered} \text { Rate } \\ (95 \% \mathrm{CII}) \\ \hline \end{gathered}$ | No. | $\begin{gathered} \text { Rate } \\ (95 \% \mathrm{CI}) \\ \hline \end{gathered}$ |  | No. | $\begin{gathered} \text { Rate } \\ (95 \% \mathrm{CI}) \\ \hline \end{gathered}$ | No. | $\begin{gathered} \text { Rate } \\ (95 \% \mathrm{CI}) \\ \hline \end{gathered}$ |  |
| Overall | 7,630 | 3.6 (3.5-3.7) | 133,012 | 5.7 (5.6-5.7) | -37 | 12,656 | 5.6 (5.5-5.7) | 226,829 | 9.2 (9.1-9.2) | -39 |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Women | 6,211 | 4.8 (4.7-4.9) | 85,484 | 6.2 (6.2-6.2) | -23 | 9,953 | 7.3 (7.2-7.5) | 143,904 | 10.2 (10.1-10.2) | -28 |
| Men | 1,419 | 1.8 (1.7-1.9) | 47,528 | 4.9 (4.9-5.0) | -63 | 2,703 | 3.1 (2.9-3.2) | 82,925 | 7.8 (7.8-7.9) | -60 |
| Age group (yrs) |  |  |  |  |  |  |  |  |  |  |
| 65-74 | 4,352 | 3.8 (3.7-3.9) | 67,071 | 5.6 (5.6-5.7) | -32 | 7,859 | 6.2 (6.0-6.3) | 119,617 | 9.5 (9.5-9.6) | -35 |
| 75-84 | 2,848 | 4.2 (4.1-4.4) | 57,646 | 6.8 (6.7-6.9) | -38 | 4,270 | 6.2 (6.0-6.4) | 92,623 | 10.6 (10.6-10.7) | -42 |
| $\geq 85$ | 430 | 1.6 (1.4-1.7) | 8,295 | 2.7 (2.6-2.8) | -41 | 527 | 1.9 (1.7-2.1) | 14,589 | 4.2 (4.1-4.3) | -55 |
| State |  |  |  |  |  |  |  |  |  |  |
| Alabama | 324 | 3.8 (3.4-4.2) | 2,248 | 5.5 (5.2-5.7) | -31 | 471 | 6.1 (5.6-6.7) | 3,742 | 8.7 (8.4-9.0) | -30 |
| Alaska | - $\dagger$ | - | 165 | 6.1 (5.2-7.0) | - | - | - | 348 | 10.6 (9.5-11.7) | - |
| Arizona | - | - | 2,052 | 6.1 (5.8-6.4) | - | - | - | 3,800 | 9.4 (9.1-9.7) | - |
| Arkansas | 130 | 3.8 (3.2-4.5) | 1,589 | 5.2 (5.0-5.5) | -27 | 193 | 6.1 (5.3-7.0) | 3,094 | 9.7 (9.3-10.0) | -37 |
| California | 335 | 3.7 (3.3-4.1) | 6,891 | 4.8 (4.7-4.9) | -23 | 579 | 5.3 (4.9-5.7) | 13,431 | 8.0 (7.9-8.2) | -34 |
| Colorado | - | - | 1,485 | 6.5 (6.1-6.8) | - | 51 | 6.4 (4.6-8.1) | 3,344 | 11.7 (11.3-12.1) | -45 |
| Connecticut | 59 | 3.8 (2.8-4.8) | 1,379 | 4.2 (4.0-4.4) | -10 | 117 | 5.4 (4.4-6.4) | 2,725 | 7.1 (6.8-7.4) | -24 |
| Delaware | 52 | 5.2 (3.8-6.6) | 441 | 5.5 (5.0-6.0) | -5 | 106 | 8.3 (6.7-9.9) | 937 | 10.1 (9.5-10.8) | -18 |
| District of Columbia | 128 | 3.4 (2.8-4.0) | 66 | 3.9 (3.0-4.9) | -13 | 199 | 5.8 (5.0-6.6) | 112 | 6.5 (5.3-7.7) | -11 |
| Florida | 413 | 4.2 (3.8-4.6) | 9,213 | 5.7 (5.6-5.8) | -26 | 661 | 5.5 (5.1-5.9) | 15,697 | 8.9 (8.8-9.1) | -38 |
| Georgia | 541 | 4.2 (3.8-4.5) | 2,931 | 5.3 (5.1-5.5) | -21 | 814 | 5.8 (5.4-6.1) | 5,497 | 9.0 (8.7-9.2) | -36 |
| Hawaii | - | - | 78 | 3.3 (2.5-4.0) | - | - | - | 171 | 6.2 (5.3-7.2) | - |
| Idaho | - | - | 1,088 | 8.7 (8.2-9.2) | - | - | - | 1,598 | 12.0 (11.4-12.6) | - |
| Illinois | 265 | 2.6 (2.3-2.9) | 6,724 | 6.1 (5.9-6.2) | -57 | 589 | 4.7 (4.3-5.0) | 11,224 | 9.8 (9.6-10.0) | -52 |
| Indiana | 145 | 4.0 (3.3-4.6) | 4,042 | 6.2 (6.0-6.4) | -35 | 249 | 6.3 (5.5-7.1) | 6,498 | 9.8 (9.5-10.0) | -36 |
| lowa | - | - | 3,665 | 9.1 (8.8-9.4) | - | - | - | 4,709 | 12.5 (12.1-12.8) | - |
| Kansas | 62 | 6.6 (5.0-8.3) | 2,472 | 8.2 (7.9-8.5) | -20 | 75 | 7.4 (5.7-9.1) | 3,753 | 12.2 (11.9-12.6) | -39 |
| Kentucky | 98 | 4.5 (3.6-5.4) | 1,988 | 4.7 (4.4-4.9) | -4 | 126 | 5.8 (4.8-6.8) | 3,652 | 8.1 (7.8-8.3) | -28 |
| Louisiana | 303 | 3.4 (3.0-3.7) | 1,575 | 5.2 (5.0-5.5) | -35 | 468 | 5.2 (4.7-5.7) | 2,886 | 9.0 (8.7-9.4) | -42 |
| Maine | - | - | 960 | 5.5 (5.1-5.8) | - | - | - | 1,501 | 8.1 (7.7-8.5) | - |
| Maryland | 316 | 3.7 (3.3-4.1) | 2,366 | 5.9 (5.7-6.2) | -37 | 723 | 6.9 (6.4-7.4) | 4,162 | 9.7 (9.4-9.9) | -29 |
| Massachusetts | 57 | 3.1 (2.3-4.0) | 2,391 | 4.3 (4.1-4.4) | -28 | 133 | 5.9 (4.9-6.9) | 4,358 | 7.2 (7.0-7.4) | -18 |
| Michigan | 364 | 3.5 (3.1-3.9) | 6,672 | 6.7 (6.5-6.8) | -48 | 724 | 6.6 (6.1-7.1) | 11,128 | 10.8 (10.6-11.0) | -39 |
| Minnesota | - | - | 3,756 | 7.8 (7.6-8.1) | - | - | - | 5,703 | 13.4 (13.1-13.8) | - |
| Mississippi | 235 | 2.9 (2.5-3.3) | 1,171 | 4.9 (4.6-5.2) | -41 | 381 | 5.2 (4.7-5.7) | 2,181 | 9.0 (8.6-9.3) | -42 |
| Missouri | 118 | 3.2 (2.6-3.8) | 3,663 | 6.5 (6.3-6.7) | -51 | 203 | 5.1 (4.4-5.8) | 5,755 | 9.9 (9.6-10.1) | -48 |
| Montana | - | - | 748 | 6.5 (6.1-7.0) | - | - | - | 1,254 | 11.1 (10.4-11.7) | - |
| Nebraska | - | - | 1,751 | 8.4 (8.0-8.8) | - | - | - | 2,654 | 13.1 (12.6-13.6) | - |
| Nevada | - | - | 534 | 4.3 (3.9-4.7) | - | 56 | 6.2 (4.6-7.8) | 1,152 | 7.6 (7.1-8.0) | -18 |
| New Hampshire | - | - | 755 | 5.3 (4.9-5.7) | - | - | - | 1,182 | 7.6 (7.1-8.0) | - |
| New Jersey | 170 | 2.3 (1.9-2.6) | 2,789 | 3.6 (3.4-3.7) | -36 | 404 | 4.6 (4.2-5.1) | 5,076 | 6.2 (6.0-6.4) | -26 |
| New Mexico | - | - | 717 | 5.5 (5.1-5.9) | - | - | - | 1,106 | 7.7 (7.2-8.1) | - |
| New York | 404 | 2.6 (2.3-2.9) | 5,846 | 3.9 (3.8-4.0) | -33 | 639 | 3.9 (3.6-4.2) | 9,156 | 6.3 (6.2-6.4) | -38 |
| North Carolina | 638 | 4.4 (4.1-4.8) | 3,970 | 5.4 (5.2-5.6) | -19 | 860 | 6.2 (5.8-6.6) | 6,783 | 8.8 (8.6-9.0) | -30 |
| North Dakota | - | ( | 689 | 7.7 (7.1-8.3) | - | - | (5.8-6.6) | 990 | 11.8 (11.1-12.5) | - |
| Ohio | 344 | 4.0 (3.5-4.4) | 6,402 | 5.9 (5.7-6.0) | -32 | 641 | 6.9 (6.3-7.4) | 10,956 | 9.8 (9.6-9.9) | -30 |
| Oklahoma | 77 | 4.6 (3.5-5.6) | 2,210 | 6.2 (5.9-6.4) | -26 | 122 | 7.6 (6.3-9.0) | 3,525 | 10.2 (9.9-10.6) | -25 |
| Oregon | - |  | 1,574 | 6.4 (6.0-6.7) | - | - |  | 2,455 | 9.2 (8.8-9.5) | - |
| Pennsylvania | 260 | 3.6 (3.2-4.0) | 6,690 | 5.6 (5.4-5.7) | -36 | 294 | 4.6 (4.0-5.1) | 10,339 | 9.0 (8.8-9.1) | -49 |
| Rhode Island | - |  | 322 | 3.7 (3.3-4.1) | - | - | - | 478 | 5.9 (5.4-6.5) | - |
| South Carolina | 404 | 4.3 (3.9-4.7) | 2,049 | 5.7 (5.5-6.0) | -25 | 620 | 6.6 (6.1-7.1) | 3,711 | 9.4 (9.1-9.7) | -30 |
| South Dakota | - | (3.9-7) | 837 | 8.2 (7.6-8.7) | - | - | , | 1,367 | 13.2 (12.5-13.9) | - |
| Tennessee | 235 | 3.5 (3.0-3.9) | 2,573 | 4.6 (4.4-4.8) | -24 | 310 | 5.3 (4.7-5.9) | 4,412 | 8.0 (7.7-8.2) | -34 |
| Texas | 440 | 3.4 (3.1-3.7) | 8,208 | 6.1 (6.0-6.3) | -44 | 820 | 5.4 (5.0-5.7) | 15,740 | 9.8 (9.6-9.9) | -45 |
| Utah | - |  | 1,385 | 8.2 (7.8-8.7) | - | - | - | 2,308 | 14.1 (13.5-14.6) | - |
| Vermont | - | - | 357 | 4.8 (4.3-5.3) | - | - | - | 588 | 7.4 (6.8-8.0) | - |
| Virginia | 412 | 3.7 (3.4-4.1) | 2,929 | 4.9 (4.8-5.1) | -24 | 643 | 5.8 (5.3-6.2) | 5,550 | 8.7 (8.5-8.9) | -33 |
| Washington | - | - | 2,416 | 5.6 (5.3-5.8) | - | - | - | 4,861 | 9.3 (9.0-9.6) | - |
| West Virginia | - | - | 1,218 | 5.1 (4.8-5.4) | - | - | - | 2,039 | 8.5 (8.2-8.9) | - |
| Wisconsin | 67 | 5.1 (3.9-6.4) | 4,599 | 7.4 (7.1-7.6) | -31 | 98 | 7.1 (5.7-8.5) | 6,433 | 11.3 (11.0-11.6) | -37 |
| Wyoming | - | - | 373 | 6.9 (6.2-7.7) | - | - | - | 708 | 12.3 (11.4-13.2) | - |

*Per 1,000 population.
${ }^{\dagger}$ Defined as International Classification of Diseases, Ninth Revision, Clinical Modification code 81.54 (total knee replacement) on hospital claims records from acute care, short-term hospitals.
§ U.S. residents in the 50 states or District of Columbia who were aged $\geq 65$ years, entitled for Medicare Part $A$, and not members of managed care organizations.
${ }^{1}$ Confidence interval.
** The overall percentage difference might not be consistent with the percentage differences for subpopulations because of rounding.
${ }^{\dagger \dagger}$ Number is less than 50, making rate estimate potentially unreliable.

FIGURE. Age-adjusted rates* of total knee replacement ${ }^{\dagger}$ among Medicare enrollees, ${ }^{\S}$ by white or black race - United States, 2000-2006


* Per 1,000 population. Age-adjusted to the United States 2000 projected population.
${ }^{\dagger}$ Defined as International Classification of Diseases, Ninth Revision, Clinical Modification code 81.54 (total knee replacement) on hospital claims records from acute care, short-term hospitals.
§ U.S. residents in the 50 states or District of Columbia who were aged $\geq 65$ years, entitled for Medicare Part A, and not members of managed care organizations.

The findings of an increase in the overall rate of TKR procedures in the United States and the substantial and continuing black/white disparities in TKR are consistent with previous reports. One report examining rates of knee and hip replacement, bypass surgery, and angioplasty from 1997 to 2001 in New York and Pennsylvania Medicare populations found an increase in the white/nonwhite disparity for joint replacements (9). An analysis of 1998-2000 Medicare data also indicated racial disparity in TKR rates (3). Rates in that study differ somewhat from those in this report, likely because of the substantial increase in the number of TKR procedures since 2000, the different geographic areas examined (i.e., nation and state compared with selected hospital referral regions), and restriction of the study population in this report to Medicare enrollees aged $\geq 65$ years who were not in a managed care organization, instead of the entire Medicare enrollee population.
The precise causes of black/white disparities in TKR are unclear and likely multifactorial. The disparities are not explained by varying risk for knee osteoarthritis (1). Likewise, disparate access to health care probably does not explain the disparities. Several reports have indicated that racial disparity in TKR procedures persists even after adjusting for access to clinical care (2). However, differing knowledge, attitudes, and beliefs regarding TKR might play some role. Lower outcome expectations have been associated with unwillingness to undergo TKR; these lower expectations might result from communication gaps with health-care providers or inaccurate
information from peers (2). Also, the likelihood of undergoing a joint replacement increases if a member of the patient's social network has undergone a successful joint replacement (2). Although no evidence has been presented showing racial differences in functional status after undergoing TKR, nonwhite Medicare beneficiaries are more likely to undergo surgery in hospitals that have fewer TKR procedures and where adverse TKR outcomes are more common (10). Negative TKR outcomes might influence members of social networks not to seek TKR. The likelihood of undergoing TKR increases with increased education (2). One study of U.S. adults found racial disparity in joint replacement use during 1998-2004 among persons aged $\geq 65$ years but not among persons aged 51-64 years (4), a difference that might be attributable, in part, to a narrower education gap between blacks and whites at younger age levels.
The findings in this report are subject to at least three limitations. First, the study data were collected from Medicare hospital claims and thus depend on the accuracy of physician or administrative reporting and procedure coding. However, these data are the only available national source of hospital procedure information with complete black and white race data for persons aged $\geq 65$ years. Second, all hospitalizations were analyzed, but access to individual identifiers was prohibited; therefore, some persons might have been counted twice if they underwent TKR surgery on each knee at two separate times in the same year. Finally, the analysis does not include persons in managed care organizations, a standard exception in Medicare analyses, because these organizations do not release specific claims data; in 2004, approximately $17 \%$ of all Medicare enrollees were members of managed care organizations.
Racial disparity between blacks and whites persists in TKR procedures, and the precise underlying reasons are unclear. A combined public health and clinical strategy to address racial disparity in TKR might include wider distribution of information in various public settings and equipping health-care providers with resources that enable them to have TKR discussions that are thorough and tailored to the understanding, needs, and concerns of their patients (2).

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## Clostridium perfringens Infection Among Inmates at a County Jail Wisconsin, August 2008

On August 8, 2008, employees at a Wisconsin county jail noted nausea, vomiting, and diarrhea among more than 100 inmates during the early morning inspection. Seven inmates were seen by the jail nurse that morning. Following jail protocol, guards gave at least 60 inmates bismuth subsalicylate to relieve symptoms, and the jail nurse notified local health department staff members, who suspected a foodborne outbreak at the jail and initiated an investigation. This report summarizes the findings of an investigation by the Wisconsin Division of Public Health (WDPH) and the local health department, which determined the outbreak was caused by eating casserole containing ground turkey and beef (relative risk $[R R]=25.1$ ) that was served during the evening meal on August 7. Clostridium perfringens enterotoxin was detected in stool samples collected from six ill inmates, and 43,000 $\mathrm{CFU} / \mathrm{g}$ of the organism were isolated from a remaining sample of casserole. An environmental investigation determined the casserole was made with food items that were prepared and stored improperly. Proper food preparation and storage methods are especially important in large institutions such as jails and prisons, where large amounts of foods are prepared and served at one time.

The county jail has a capacity of approximately 550 inmates and is regulated by the local sheriff's department. The jail houses a mixed population that includes male (approximately $90 \%$ of the population) and female adults, work release inmates, contract prisoners from the Wisconsin Department
of Corrections, and juveniles housed in the juvenile detention facility. Food preparation is conducted on-site in a central kitchen. An independent food-handling company is responsible for establishing the menu, providing the food ingredients, and overseeing the food preparations, which are conducted by inmates on a weekly rotating kitchen assignment. Meals are pre-portioned and served to the inmates, to be consumed in their cells. Inmates are served a set menu and are not given a choice of food items.
On August 8, 2008, after discussion with the jail nurse, WDPH epidemiologists prepared a questionnaire to record inmate demographic information, clinical signs and symptoms, time of symptom onset, and food-consumption histories for all meals served at the jail on August 6 and 7. The questionnaire was distributed to all of the inmates in their cells. All inmates, whether or not they had been ill, were asked to complete the questionnaire on August 8. Of 475 inmates at the jail on August 8, 257 ( $54 \%$ ) returned the self-administered survey.
A probable C. perfringens intoxication case was defined as the self-reported (by questionnaire) presence of at least one of the following symptoms: diarrhea (three or more loose stools in a 24 -hour period), abdominal cramps, or nausea occurring between 5:00 p.m. on August 7 and 5:00 p.m. on August 8. A confirmed case was defined as a probable case with a stool sample positive for $C$. perfringens enterotoxin. Among the 257 inmates who answered the questionnaire, 37 returned forms that were incomplete and could not be used for analysis. Among the 220 inmates who completed the full survey, 194 probable and six confirmed cases were identified. Among those 200 cases, the most frequently reported signs and symptoms included diarrhea ( $97 \%$ ), abdominal cramps ( $85 \%$ ), nausea ( $64 \%$ ), and generalized aches ( $51 \%$ ) (Table 1). In a comment space on the questionnaire, four respondents commented on the unusual taste of the casserole. Among the 200 cases, 172 ( $86 \%$ ) occurred in males aged $15-62$ years (median: 28 years); the mean onset interval was approximately 8 hours after the August 7 evening meal (Figure). One case occurred in an inmate who was assigned to food preparation duty. None of the food preparation supervisors reported being ill, although they also consumed the meal. No information was collected on the location of ill inmates within the jail.
In a cohort analysis, among food and beverages reported consumed by the inmates, the strongest association with illness was eating casserole $(\mathrm{RR}=25.1)$ at dinner on August 7 (Table 2). Among 220 inmates, 192 ( $87 \%$ ) reported eating the casserole, which was made with macaroni noodles, ground beef, and ground turkey (but not turkey served for the evening meal on August 6), frozen mixed vegetables, and gravy.

TABLE 1. Number and percentage of Clostridium perfringens probable and confirmed infections ( $\mathrm{N}=200$ )* with clinical symptoms and positive laboratory tests among jail inmates - Wisconsin, August 2008

| Symptom | No. | (\%) |
| :--- | :---: | :---: |
| Diarrhea | 194 | $(97)$ |
| Abdominal cramps | 169 | $(85)$ |
| Nausea | 128 | $(64)$ |
| Generalized aches | 102 | $(51)$ |
| Headache | 94 | $(47)$ |
| Fatigue | 89 | $(45)$ |
| Chills | 85 | $(43)$ |
| Vomiting | 45 | $(23)$ |
| Laboratory confirmed | 6 | $(3)$ |
| *Probab |  |  |

* Probable cases = cases with one or more self-reported symptoms (i.e., diarrhea, abdominal cramps, or nausea); confirmed cases = probable case definition with positive stool specimen.

Stool specimens obtained from six symptomatic inmates on August 8 were submitted to the Wisconsin State Laboratory of Hygiene (WSLH) for testing for C. perfringens and Bacillus cereus enterotoxin. On August 13, test results confirmed the presence of $C$. perfringens enterotoxin in stool samples from all
six inmates. Tests were negative for $B$. cereus enterotoxin, and cultures for the outbreak stool screen for Salmonella, Shigella, Campylobcater, and Escherichia coli O157:H7 were negative.

The company that distributes food to the jail routinely freezes and stores for up to 72 hours leftover food that is not served. Samples of the stored casserole, served as the main course for evening meal on August 7, were tested on August 12 for the presence of C. perfringens by the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP), Bureau of Laboratory Services. No other food items were tested; $43,000 \mathrm{CFU} / \mathrm{g}$ (quantified via a dilution plate count) of $C$. perfringens was isolated from the sample of casserole.

On August 8, the environmental health sanitarian from the local health department met with jail kitchen supervisors and employees of the food distribution company to assess food preparation and employee health and hygiene practices. The macaroni and ground beef in the implicated casserole were cooked the day before. The sanitarian determined that food temperatures had not been obtained or recorded consistently, and documentation of cooling temperatures for both the ground beef and macaroni, where cooling from $70^{\circ} \mathrm{F}$ to $41^{\circ} \mathrm{F}$

FIGURE. Number of self-reported cases of Clostridium perfringens intoxications ( $\mathrm{N}=200$ ) among inmates housed at a county jail who ate casserole dinner, by hour of illness onset - Wisconsin, August 7 and 8, 2008


[^3]TABLE 2. Association between reported food exposures and cases of Clostridium perfringens gastroenteritis at a county jail Wisconsin, August 2008

| Meal and date served | No. who ate specified foods |  |  | No. who did not eat specified foods |  |  | RR* | p-value | 95\% CI ${ }^{\dagger}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cases | Total | Attack rate (\%) | Cases | Total | Attack rate (\%) |  |  |  |
| Breakfast (8/6/2008) |  |  |  |  |  |  |  |  |  |
| Cereal | 147 | 159 | (93) | 31 | 34 | (91) | 1.2 | 0.5 | (0.4-3.9) |
| Milk | 151 | 164 | (92) | 26 | 28 | (93) | 0.9 | 0.6 | (0.2-3.8) |
| Lunch (8/6/2008) |  |  |  |  |  |  |  |  |  |
| Chicken strips | 161 | 172 | (94) | 18 | 22 | (82) | 2.8 | 0.1 | (1.0-8.2) |
| Carrots | 135 | 145 | (93) | 41 | 45 | (91) | 1.3 | 0.4 | (0.4-3.9) |
| Brownie/Cake | 109 | 116 | (94) | 55 | 62 | (88) | 1.9 | 0.2 | (0.7-5.1) |
| Flavored drink | 154 | 166 | (93) | 24 | 27 | (89) | 1.5 | 0.4 | (0.5-5.1) |
| Dinner (8/6/2008) |  |  |  |  |  |  |  |  |  |
| Turkey with gravy | 177 | 186 | (95) | 7 | 13 | (54) | 9.5 | <0.1 | (4.0-22.7) |
| Rice | 176 | 186 | (95) | 7 | 12 | (58) | 4.7 | <0.1 | (1.7-12.9) |
| Corn | 170 | 181 | (94) | 10 | 14 | (71) | 4.7 | <0.1 | (1.7-12.9) |
| Dinner roll | 168 | 181 | (93) | 14 | 16 | (88) | 1.7 | 0.4 | (0.4-7.1) |
| Breakfast (8/7/2008) |  |  |  |  |  |  |  |  |  |
| Cereal | 147 | 159 | (93) | 31 | 34 | (91) | 1.2 | 0.5 | (0.4-3.9) |
| Milk | 146 | 158 | (92) | 29 | 32 | (91) | 1.2 | 0.5 | (0.4-4.1) |
| Lunch (8/7/2008) |  |  |  |  |  |  |  |  |  |
| Hot dog | 171 | 184 | (93) | 13 | 15 | (87) | 1.9 | 0.3 | (0.5-7.6) |
| Bun | 169 | 182 | (93) | 15 | 17 | (88) | 1.7 | 0.4 | (0.41-6.7) |
| Potato chips | 164 | 178 | (92) | 20 | 21 | (95) | 0.6 | 0.5 | (0.1-4.4) |
| Green beans | 147 | 157 | (94) | 36 | 41 | (88) | 1.9 | 0.2 | (0.7-5.3) |
| Dinner (8/7/2008) |  |  |  |  |  |  |  |  |  |
| Casserole | 191 | 198 | (96) | 1 | 9 | (11) | 25.1 | <0.1 | (11.7-53.9) |
| Mixed vegetables | 168 | 179 | (94) | 22 | 26 | (85) | 2.5 | 0.1 | (0.9-7.3) |
| Cornbread | 159 | 168 | (95) | 30 | 36 | (83) | 3.1 | $<0.1$ | (1.2-8.2) |

*Relative risk.
${ }^{\dagger}$ Confidence interval.
$\left(39^{\circ} \mathrm{C}\right.$ to $\left.23^{\circ} \mathrm{C}\right)$ is a vital step, could not be provided. An inspection of the cooler revealed improper handling and cooling of taco meat, which was being prepared for a future meal and was not implicated in this outbreak; some containers of meat were cooled with ice paddles and other containers were not. The sanitarian recommended training kitchen employees on proper cooling processes and food history documentation requirements, stressed that reuse of food items should occur only when records of proper preparation and temperature documentation are available, and provided fact sheets on proper food-handling and preparation.
Reported by: H Hsieh, MS, Outagamie County Public Health Div; $J$ Archer, MS, R Heffernan, MPH, JP Davis, MD, Wisconsin Div of Public Health. CF Nielsen, PhD, EIS Officer, CDC.
Editorial Note: C. perfringens is a ubiquitous, spore-forming bacterium and a natural inhabitant of soil and the intestinal tracts of many warm-blooded mammals, including humans. C. perfringens food contamination is a common source of foodborne illness in industrialized nations and causes an estimated 250,000 cases of diarrhea annually in the United States (1). When food products contaminated with C. perfringens are cooled too slowly or are reheated insufficiently, enterotoxin-
producing vegetative cells can increase rapidly during the period when ambient temperatures range between $104^{\circ} \mathrm{F}$ and $122^{\circ} \mathrm{F}\left(40^{\circ} \mathrm{C}\right.$ and $\left.50^{\circ} \mathrm{C}\right)$. Illness is caused by the production of enterotoxin in the small intestine after ingestion of food containing $\geq 10^{6} \mathrm{CFU} / \mathrm{g}$ of $C$. perfringens vegetative cells $(2,3)$. Typical symptoms of acute abdominal pain, nausea, and diarrhea occur 6-24 hours after eating contaminated food, are generally self-limited and last approximately 24 hours; associated deaths are rare (2). Proper preparation and storage of food and cleaning and disinfection of preparation areas can effectively control foodborne illness caused by C. perfringens.
The epidemiologic and laboratory results from this investigation strongly implicated the casserole as the source of illness. Consumption of casserole at the evening meal on August 7 was associated with a high risk for illness. Consumption of certain items at the evening meal on the previous day was more weakly associated with illness. However, time from consumption of these items to the onset of illness makes these items unlikely as vehicles for illness caused by C. perfringens, which has a shorter incubation period. Leftover items from the evening dinner on

August 6 were not included in the casserole, nor were they available for microbiologic testing.

Some cases in this outbreak occurred only a few hours after consumption of casserole, somewhat earlier than might be expected for C. perfringens. This might reflect time-reporting errors, because inmates at the jail do not have clocks or watches available in their cells. However, lower gastrointestinal symptoms can occur as soon as 2 hours after ingestion of foods containing $C$. perfringens (4).

Laboratory detection of $C$. perfringens during foodborne outbreak investigations requires either quantitative cultures of implicated foods or enterotoxin-positive stool specimens from ill persons (5). In this investigation, testing of food and stool samples confirmed the presence of $C$. perfringens. The detection of enterotoxin in stool specimens and isolation of C. perfringens in food samples provided confirmatory evidence that C. perfringens contamination of the casserole was the causative agent for the outbreak.

The casserole had been made by combining and reheating leftover food items from previous meals and food items that were near their expiration dates. The limited preparation history for these leftover foods indicated that they might not have been cooled properly after previous meals, potentially allowing C. perfringens vegetative cells to increase to concentrations sufficient to cause illness during mixing and reheating of the casserole. The food sample tested was frozen during holding and thawed before shipment. Because C. perfringens is sensitive to freezing and significant cell die-off commonly occurs when samples are frozen, the original concentration of C. perfringens cells likely was greater than 43,000 CFU/g.

Foodborne outbreaks of $C$. perfringens infections typically occur in institutional settings, where large quantities of food are sometimes prepared several hours before serving. C. perfringens frequently has been found to contaminate meats, meat products, and gravies, and is most often associated with improper holding temperatures or inadequate cooking (2). Proper food-handling practices are imperative. Food items need to be heated before serving to temperatures sufficient to kill spore-forming bacteria, and afterward cooled quickly for storage. The optimal temperature for growth of $C$. perfringens vegetative cells is $109^{\circ} \mathrm{F}$ to $113^{\circ} \mathrm{F}\left(43^{\circ} \mathrm{C}\right.$ to $\left.45^{\circ} \mathrm{C}\right)(6,7)$; therefore, rapidly cooling cooked meats to below these temperatures is important (8).

The findings in this report are subject to at least one limitation. The illness rate for inmates who did not submit a survey could not be determined; therefore, an overall attack rate could not be calculated reliably.

Correctional workers, inmates (including those working on weekly rotations), and other persons serving as food handlers, food preparers, or food distributors should receive training and educational materials regarding food preparation as part of infacility, pre-service training or orientation. Measures to prevent the spread of potential foodborne and waterborne pathogenic organisms should emphasize basic food and water sanitation measures and encourage good hygiene, particularly appropriate handwashing techniques, disposal of waste and soiled materials, and disinfection. Prepared foods in institutional settings should not include reused meats or other food items cooked or served with meats from previous meals unless stringent foodpreparation procedures are followed, such as closely monitoring and recording cooking times and temperatures and ensuring proper cold storage and reheating.

## Acknowledgments

The findings in this report are based, in part, on contributions by WSLH and DATCP staff members; epidemiologists, nurses, environmental health sanitarians, and other personnel of the local health department and county jail in Wisconsin; and K Bisgard, Office of Workforce and Career Development, CDC.

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## Progress Toward Measles Elimination - European Region, 2005-2008

In 2002, the World Health Organization (WHO) Regional Committee for the European Region (EUR)* revised earlier targets to eliminate indigenous measles and achieve rubella control (1) by resolving to 1 ) eliminate both diseases in EUR member states by 2010, using a combination of routine and supplementary immunization strategies, ${ }^{\dagger}$ and 2 ) monitor progress toward this goal through improved surveillance (2). This report summarizes progress toward measles elimination during 2005-2008 and updates a previous report from 2005 (3). In 2005 and 2006, large-scale outbreaks occurred in the eastern EUR member states. However, in 2007 and 2008, overall measles incidence in EUR declined to a historic low of $<10$ cases per 1 million population, with the majority of cases reported from Western Europe. During 2005-2007, routine vaccination coverage with 1 dose of measles-containing vaccine (MCV) among children aged 12-23 months in EUR reached a high of $93 \%-94 \%$, up from $90 \%-91 \%$ during 2000-2004. Nevertheless, two major challenges to measles elimination remain: 1) suboptimal vaccination coverage in many countries, which has led to continued outbreaks and the resurgence of indigenous measles in some Western European countries, and 2) setbacks with implementation of supplementary immunization activities (SIAs) in Eastern Europe in 2008. Achieving the measles elimination goal by 2010 will require 1) development of approaches to sustain and increase vaccination coverage,

[^4]2) promotion of effective outbreak prevention and control measures, and 3) further strengthening of surveillance.

## Immunization Activities

All 53 countries in EUR have a national, routine, 2-dose MCV schedule. Fifty-one countries use combined measles, mumps, and rubella (MMR) vaccine nationwide; the Russian Federation has introduced MMR vaccine in some regions, and Tajikistan uses monocomponent measles vaccine. On a yearly basis, countries report routine coverage for first and second doses of MCV (MCV1 and MCV2) to WHO. No coverage data are yet available for 2008. Overall, estimated MCV1 coverage among children aged 12-23 months in EUR increased from 90\%-91\% during 2000-2004 to 93\%-94\% during 2005-2007 (Figure). EUR targets of $\geq 95 \%$ coverage for MCV1 and MCV2 were reached in 2007 by 36 ( $68 \%$ ) and 26 (49\%) countries, respectively (Table 1). MCV1 coverage remained $<90 \%$ in 10 countries (eight of them in Western Europe), accounting for $24 \%$ of the region's total population, and MCV2 coverage was $<90 \%$ in 10 countries (eight of them in Western Europe), accounting for $21 \%$ of the EUR population. In addition, of the 45 countries reporting subnational level data in 2007, 16 (35\%) had MCV1 coverage $\geq 95 \%$ in all provinces.
During 2005-2008, nationwide SIAs reaching approximately 27 million persons were implemented in eight countries in eastern EUR where historic weaknesses in immunization programs had created large susceptible populations among adolescents and adults (4) (Table 2). During 2005-2007, SIAs in six countries achieved $\geq 95 \%$ vaccination coverage among target age groups, whereas $51 \%$ coverage was achieved through an SIA in the Russian Federation (Table 2). In 2008, reports of adverse events, which were perceived by the media and some health-care providers to be caused by the measles-rubella vaccine, resulted in the suspension of an SIA in Ukraine and in only $50 \%$ SIA coverage in Georgia (Table 2). These adverse events subsequently were determined by WHO and the ministries of health in Ukraine and Georgia not to be caused by the vaccine (WHO, unpublished data, 2009).
Some countries with ongoing measles outbreaks promoted vaccination through enhanced health communication and accelerated routine vaccination activities rather than conducting mass campaigns over short periods. For example, in the United Kingdom, approximately 500,000 unimmunized or underimmunized persons aged $1-18$ years received MMR vaccine during 2008. During European Immunization Week in April 2008, MMR vaccination was offered along with other vaccines during outreach efforts in 15 of 32 participating countries, reaching approximately 2 million persons.

FIGURE. Regional coverage with 1 dose of measles-containing vaccine (MCV1) among children aged 12-23 months and number of reported measles cases - European Region (EUR), World Health Organization, 2000-2008*


* Based on annual reports (for 2000-2007) and country monthly reports (for 2008); data for 2008 are provisional and include reports received by January 27, 2009.
† MCV1 coverage data for 2008 are not yet available.
information in their monthly reports as aggregate counts, and three (6\%) reported annually.
The EUR Regional Laboratory Network for measles, which included 48 national laboratories in 2008, provides laboratory support for surveillance (e.g., quality assurance, confirmation of cases, and genotyping of measles viruses circulating in the region). In 2008, the network reported 18,721 specimens tested for measles, of which 3,549 (19\%) were positive. In 2007 and 2008, the most commonly isolated genotype of measles virus in EUR was D4, which accounted for $>90 \%$ of all genotyped viruses.


## Measles Incidence

During 2007 and 2008, the incidence of measles in EUR was substantially lower ( 7.8 and 8.8 cases per 1 million population, respectively) than during 2005 and 2006 ( 41.4 and 60.2 cases per 1 million population, respectively) (Table 1, Figure). By comparison, measles incidence in 2002 was 53.3 cases per 1 million. During 2005-2008, the number of countries reporting measles incidence of less than one case per 1 million population (one indicator for measles elimination) ranged from 20 (38\%) to 29 ( $55 \%$ ) (Table 1). In 2008, a total of 3,575 (46\%) reported cases were confirmed

TABLE 1. Progress toward achieving disease incidence, immunization, and surveillance milestones for measles - European Region,* World Health Organization (WHO), 2005-2008 ${ }^{\dagger}$

| Milestone | Target | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Incidence |  |  |  |  |  |
| Total no. of reported measles cases (incidence per 1 million) | $<1$ case per 1 million | 36,373 (41.4) | 53,344 (60.2) | 6,949 (7.8) | 7,814 (8.8) |
| No. of member states with <1 indigenously acquired measles case per 1 million (\%)§ | 100\% | 24 (46) | 20 (38) | 29 (55) | 27 (51) |
| Immunization coverage with measles-containing vaccine (MCV) |  |  |  |  |  |
| No. of member states with $\geq 95 \%$ coverage with first dose of MCV (\%) | 100\% | 30 (58) | 30 (57) | 36 (68) | - ${ }^{1}$ |
| No. of member states with $\geq 95 \%$ coverage with second dose of MCV (\%) | 100\% | 22 (42) | 21 (40) | 26 (49) | -¢ |
| Surveillance |  |  |  |  |  |
| No. of member states with monthly case-based reporting for measles to WHO (\%) | 100\% | 14 (27) | 26 (49) | 37 (70) | 39 (74) |
| No. of member states that submitted to $\mathrm{WHO} \geq 80 \%$ of monthly case-based reports for measles (\%) | 80\% | 44 (85) | 44 (83) | 44 (83) | 43 (81) |
| No. of member states that submitted to WHO $\geq 80 \%$ of monthly case-based reports for measles on time (\%)** | 80\% | 13 (25) | 15 (28) | 24 (45) | 14 (26) |
| * Total number of member states was 52 in 2005 and 53 during 2006-2008. |  |  |  |  |  |
| † Based on annual WHO/UNICEF Joint Reporting Forms (for incidence and immunization coverage data for 2005-2007) and country monthly reports (for data on completeness and timeliness of surveillance and for all 2008 data); data for 2008 are provisional and include reports received by January 27, 2009. |  |  |  |  |  |
| ${ }^{1}$ I Data not available. |  |  |  |  |  |
| ** Timeliness is defined as receipt of a monthly report by the WHO Region | Office in Cop | hagen, Den | k, before th | h of the for | ng month. |

TABLE 2. Summary of measles supplementary immunization activities (SIAs) — nine Eastern countries, European Region, World Health Organization (WHO), 2005-2008*

| Country | Year | Target group |  | Coverage achieved (\%) | Vaccine used |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Age group | No. |  |  |
| Kazakhstan | 2005 | 15-25 yrs | 1,565,997 | 99.3 | Measles-rubella |
| Turkey | 2005 | $9 \mathrm{mos}-6 \mathrm{yrs}$ | 8,976,587 | 96.3 | Measles-rubella |
| Russian Federation | 2005 | 18-35 yrs (unimmunized) | 6,636,599 | 51.0 | Measles |
| Azerbaijan | 2006 | 7-23 yrs; <br> 7-29 yrs (in specific areas) | 2,473,399 | 95.2 | Measles-rubella |
| Uzbekistan | 2006-2007 | 10-29 yrs | 8,763,635 | 100.6 | Measles-rubella |
| Armenia | 2007 | 6-27 yrs | 942,767 | 96.8 | Measles-rubella |
| Turkmenistan | 2007 | 7-23 yrs | 1,671,000 ${ }^{+}$ | 97.1 | Measles-rubella |
| Georgia | 2008 | 6-27 yrs | 980,140 | $50.3{ }^{\text {§ }}$ | Measles-rubella |
| Ukraine | 2008 | 16-25 yrs | 7,500,000 ${ }^{+}$ | Suspended" | Measles-rubella |

* Based on the SIA reports submitted by countries to the WHO Regional Office in Copenhagen, Denmark; data for the SIA in the Russian Federation are based on the WHO/UNICEF Joint Reporting Form.
${ }^{\dagger}$ Approximate.
§ The cause of the low coverage in Georgia was public concern about vaccine safety generated by media reports of adverse events shortly after the SIA started. Subsequent investigation by WHO and the Georgian Ministry of Health identified most of the reported adverse events as episodes of fainting and anxiety attacks.
${ }^{1}$ SIA suspended because of a reported death after vaccination; fewer than 200,000 persons had been immunized in selected regions, which began vaccinating before the official SIA start date. The fatal case was subsequently determined by WHO and the Ukrainian Ministry of Health not to be causally related to vaccination.
by laboratory testing, 952 (12\%) were confirmed by epidemiologic link, and 3,287 ( $42 \%$ ) were diagnosed clinically. In 2008, of the 7,627 cases with known age and vaccination status, 2,899 ( $38 \%$ ) occurred among persons aged $\geq 15$ years and 6,268 (82\%) occurred among unvaccinated persons.

During 2005-2008, a total of 120 measles outbreaks (including 17 outbreaks with more than 250 cases) were reported in 28 countries. Large, nationwide, multiyear outbreaks (some of which started as early as in 2004) occurred in Ukraine (46,121 cases during 2005-2007), Romania ( 8,542 cases during 20042007), and Georgia ( 8,391 cases during 2004-2005). Measles cases during 2005-2006 primarily occurred in Eastern Europe (Figure). However, the proportion of cases from Western Europe increased from $6 \%(\mathrm{n}=5,524)$ during 2005-2006 to $57 \%(\mathrm{n}=3,933)$ in 2007 and $95 \%(\mathrm{n}=7,436)$ in 2008, when cases occurred primarily in Austria, France, Germany, Israel, Italy, Spain, Switzerland, and the United Kingdom.

Measles deaths generally are underreported; during 20052008, a total of 25 deaths were reported ( 14 in 2005, 10 in 2006, and one in 2008), compared with 27 deaths during 2001-2004. Consistent with the increase in the proportion of measles cases from Western European countries, where measles patients are not routinely hospitalized, the proportion of hospitalizations among patients with reported cases declined from $47 \%$ in 2005 to $17 \%$ in 2008.
Reported by: R Martin, PhD, S Deshevoi, MD, D Jankovic, MD, A Goel, D Mercer, PhD, E Laurent, World Health Organization Regional Office for Europe, Copenhagen, Denmark. A Dabbagh, PhD, P Strebel, MD, World Health Organization, Geneva, Switzerland. N Khetsuriani, MD, S Wassilak, MD, A Uzicanin, MD, Global Immunization Div, National Center for Immunization and Respiratory Diseases, $C D C$.

Editorial Note: During 2005-2008, measles incidence in EUR declined to its lowest level to date. This decline was attributable to high vaccination coverage achieved through 2-dose MCV routine vaccination schedules and implementation of SIAs. In addition, surveillance has been strengthened by expanding case-based reporting and laboratory testing. However, measles outbreaks continued to occur because of 1) past weaknesses in immunization programs, which resulted in large, susceptible, young adult populations in eastern EUR (4) and some Western European countries, and 2) limited access to health-care services for certain minority groups throughout the region (e.g., the Roma populations). The decline in measles cases in Eastern Europe largely is attributed to improved routine coverage with MCV and successful SIAs. However, in countries where SIAs have not been implemented successfully, the reduction of cases might represent a post-outbreak decline, reflecting the cyclical nature of measles. Since 2007, as the outbreaks in eastern parts of EUR subsided, measles resurgence occurred in some Western European countries because of persistent suboptimal coverage with MCV and problems with vaccine acceptance $(6,7)$. Ongoing transmission in Western Europe has been linked to multiple introductions of measles virus into other regions, including the United States, where indigenous measles has been eliminated $(7,8)$.
Belief systems have become the principal barrier to vaccinating children in Western Europe, resulting in decreased MCV coverage in many countries $(6,7,9)$. Certain groups are rejecting vaccination because of philosophic or religious beliefs $(6,7)$. In addition, certain parents, influenced by antivaccine movements and negative media reports, are choosing not to
vaccinate their children or delay vaccination because of safety concerns. Recent measles cases in Western Europe occurred primarily among unimmunized or underimmunized persons from these subgroups ( 6,7 ). Unsubstantiated concerns about vaccine safety and quality also have adversely affected recent SIAs in Ukraine and Georgia.
Reaching the measles elimination goal by the target date of 2010 will require high-level political commitment to increase and sustain at high levels 2-dose MCV coverage among children and, where necessary, implement SIAs to reduce measles susceptibility among older cohorts. To reverse decreases in MCV coverage in some areas, trust in immunization by the general public must be restored and maintained. European Immunization Week, held annually in April, provides an opportunity to actively communicate the benefits and risks of immunization and advocate for the protection of children. Achieving measles elimination also requires the continued education of public health professionals and health-care providers, focusing on highlighting the distinction between coincidental and causally related adverse events after vaccination. Unlike in the United States, regulations related to immunization (e.g., school entry requirements) are minimal or nonexistent in many EUR countries (7). Therefore, health professionals should be educated on how to guide parents who have questions and concerns about immunization.

To monitor progress toward measles elimination more effectively, surveillance needs to be strengthened through adoption of revised WHO regional surveillance guidelines that 1 ) are adapted to overall lower measles incidence levels and 2) emphasize the importance of laboratory confirmation, case-based reporting, coordination between laboratory and epidemiologic components, and use of standardized performance indicators. Advocacy with member states to improve measles surveillance also is important. When outbreaks occur, International Health Regulations ${ }^{\S}$ provide a mechanism to alert other member states and limit further transmission.
The findings in this report are subject to at least four limitations. First, measles cases might be underreported overall and variably among EUR countries. Second, comparisons between countries are difficult because of this underreporting and because of variations in reporting cases by confirmation status (some countries report only confirmed cases) and the extent of laboratory testing. Third, 2008 data are provisional because of delayed reporting and are based on monthly reports because countries submit final annual reports later in the year. Finally, a regionally standardized definition of measles outbreaks does not exist.

[^5]Measles elimination in EUR is achievable, as demonstrated by countries that have maintained high vaccination coverage and have been free of indigenous measles for several years (e.g., Finland) $(7,10)$. However, suboptimal MCV coverage, which has resulted in continued transmission of measles virus and increasing numbers of cases in certain parts of EUR, increases the likelihood of future outbreaks and threatens to delay measles elimination. These threats need to be urgently addressed to sustain the gains and reach the goal of measles elimination in EUR by 2010.

## Acknowledgments

This report is based, in part, on contributions by immunization program staff members in all 53 EUR member states.

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## Notice to Readers

## Epidemiology in Action Course

CDC's Office of Workforce and Career Development and Rollins School of Public Health at Emory University will cosponsor the course, Epidemiology in Action, April 27-May 8, 2009, at the Emory University campus in Atlanta, Georgia. The course, which is designed for state and local public health professionals, emphasizes practical applications of epidemiology
to public health problems and consists of lectures, workshops, classroom exercises (including actual epidemiologic problems), and roundtable discussions. Topics covered during the course include descriptive epidemiology and biostatistics, analytic epidemiology, epidemic investigations, public health surveillance, surveys and sampling, Epi Info training, and discussions of selected prevalent diseases.

Tuition is charged to attend the course. Additional information and applications are available at http://www.sph. emory.edu/epicourses; by mail (Emory University, Hubert Department of Global Health [Attn: Pia], 1518 Clifton Rd. NE, Rm. 746, Atlanta, GA 30322); telephone (404-727-3485); fax (404-727-4590); or e-mail (pvaleri@emory.edu).

## QuickStats

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS
Fetal Mortality Rates,* by Period of Gestation — United States, 1990-2005


* Per 1,000 live births and fetal deaths.

In 2005, the fetal mortality rate in the United States was 6.2 fetal deaths of $\geq 20$ weeks' gestation per 1,000 live births and fetal deaths. From 1990 to 2003, the rate declined $17 \%$ because of a decrease in late fetal deaths ( $\geq 28$ weeks' gestation); the fetal mortality rate for 20-27 weeks' gestation did not decline. From 2003 to 2005 , the rate did not decline for either gestational age grouping.

SOURCE: MacDorman MF, Kirmeyer S. Fetal and perinatal mortality, United States, 2005. Natl Vital Stat Rep 2009;57(8).

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) - United States, week ending February 14, 2009 (6th week)*

| Disease | Current week | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | 5-year weekly average ${ }^{\dagger}$ | Total cases reported for previous years |  |  |  |  | States reporting cases during current week (No.) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 2008 | 2007 | 2006 | 2005 | 2004 |  |
| Anthrax | - | - | 0 | - | 1 | 1 | - | - |  |
| Botulism: |  |  |  |  |  |  |  |  |  |
| foodborne | - | 3 | 0 | 14 | 32 | 20 | 19 | 16 |  |
| infant | 1 | 3 | 2 | 100 | 85 | 97 | 85 | 87 | PA (1) |
| other (wound and unspecified) | - | 2 | 1 | 22 | 27 | 48 | 31 | 30 |  |
| Brucellosis | - | 2 | 1 | 82 | 131 | 121 | 120 | 114 |  |
| Chancroid | 1 | 5 | 1 | 29 | 23 | 33 | 17 | 30 | $\mathrm{MI}(1)$ |
| Cholera | - | - | 0 | 3 | 7 | 9 | 8 | 6 |  |
| Cyclosporiasis§ | 1 | 12 | 2 | 131 | 93 | 137 | 543 | 160 | FL (1) |
| Diphtheria | - | - | - | - | - | - | - | - |  |
| Domestic arboviral diseases§,\%: |  |  |  |  |  |  |  |  |  |
| California serogroup | - | - | - | 41 | 55 | 67 | 80 | 112 |  |
| eastern equine | - | - | - | 3 | 4 | 8 | 21 | 6 |  |
| Powassan | - | - | - | 1 | 7 | 1 | 1 | 1 |  |
| St. Louis | - | - | - | 10 | 9 | 10 | 13 | 12 |  |
| western equine | - | - | - | - | - | - | - | - |  |
| Ehrlichiosis/Anaplasmosis§,**: |  |  |  |  |  |  |  |  |  |
| Ehrlichia chaffeensis | 2 | 11 | 1 | 898 | 828 | 578 | 506 | 338 | NC (1), GA (1) |
| Ehrlichia ewingii | - | - | - | 9 | - | - | - | - |  |
| Anaplasma phagocytophilum | 1 | 2 | 1 | 575 | 834 | 646 | 786 | 537 | MD (1) |
| undetermined | - | - | 0 | 72 | 337 | 231 | 112 | 59 |  |
| Haemophilus influenzae, ${ }^{\dagger \dagger}$ |  |  |  |  |  |  |  |  |  |
| invasive disease (age <5 yrs): |  |  |  |  |  |  |  |  |  |
| serotype b | - | 2 | 0 | 29 | 22 | 29 | 9 | 19 |  |
| nonserotype b | 7 | 22 | 4 | 181 | 199 | 175 | 135 | 135 | VT (1), CT (1), OH (1), WV (1), NC (1), FL (1), OK (1) |
| unknown serotype | 1 | 23 | 5 | 188 | 180 | 179 | 217 | 177 | CT (1) |
| Hansen disease§ | 1 | 7 | 1 | 73 | 101 | 66 | 87 | 105 | FL (1) |
| Hantavirus pulmonary syndrome§ | - | - | 0 | 16 | 32 | 40 | 26 | 24 |  |
| Hemolytic uremic syndrome, postdiarrheal§ | 2 | 6 | 2 | 257 | 292 | 288 | 221 | 200 | GA (1), CA (1) |
| Hepatitis C viral, acute | 10 | 64 | 16 | 853 | 845 | 766 | 652 | 720 | $\begin{aligned} & \mathrm{NY}(1), \mathrm{OH}(1), \mathrm{MI}(1), \mathrm{NC}(1), \mathrm{TN}(1), \mathrm{CO}(1), \mathrm{OR} \\ & (1), \mathrm{CA}(3) \end{aligned}$ |
| HIV infection, pediatric (age <13 years)§§ | - | - | 5 | - | - | - | 380 | 436 |  |
| Influenza-associated pediatric mortality§,911 | 6 | 10 | 2 | 88 | 78 | 43 | 45 | - | AR (1), CO (1), FL (1), NC (2), PA (1) |
| Listeriosis | 5 | 46 | 8 | 703 | 808 | 884 | 896 | 753 | MI (1), GA (1), WA (2), CA (1) |
| Measles*** | 1 | 2 | 1 | 132 | 43 | 55 | 66 | 37 | FL (1) |
| Meningococcal disease, invasive ${ }^{\text {ttt: }}$ |  |  |  |  |  |  |  |  |  |
| A, C, Y, and W-135 | 1 | 14 | 7 | 315 | 325 | 318 | 297 | - | AZ (1) |
| serogroup B | - | 5 | 4 | 170 | 167 | 193 | 156 | - |  |
| other serogroup | - | 2 | 1 | 30 | 35 | 32 | 27 | - |  |
| unknown serogroup | 5 | 38 | 17 | 593 | 550 | 651 | 765 | - | PA (1), MD (1), FL (1), CA (2) |
| Mumps | - | 29 | 12 | 408 | 800 | 6,584 | 314 | 258 |  |
| Novel influenza A virus infections | - | - | - | 2 | 4 | N | N | N |  |
| Plague | - | - | - | 1 | 7 | 17 | 8 | 3 |  |
| Poliomyelitis, paralytic | - | - | - | - | - | - | 1 | - |  |
| Polio virus infection, nonparalytic§ | - | - | - | - | - | N | N | N |  |
| Psittacosis§ | - | - | 0 | 10 | 12 | 21 | 16 | 12 |  |
| Q fever total§,§§§: | - | 3 | 1 | 102 | 171 | 169 | 136 | 70 |  |
| acute | - | 2 | 1 | 90 | - | - | - | - |  |
| chronic | - | 1 | - | 12 | - | - | - | - |  |
| Rabies, human | 1 | 1 | 0 | 1 | 1 | 3 | 2 | 7 | NH (1) |
| Rubella917! | - | - | 0 | 16 | 12 | 11 | 11 | 10 |  |
| Rubella, congenital syndrome | - | 1 | - | - | - | 1 | 1 | - |  |
| SARS-CoV§,**** | - | - | - | - | - | - | - | - |  |
| Smallpox§ | - | - | - | - | - | - | - | - |  |
| Streptococcal toxic-shock syndrome§ | - | 4 | 3 | 137 | 132 | 125 | 129 | 132 |  |
| Syphilis, congenital (age <1 yr) | - | - | 6 | - | 430 | 349 | 329 | 353 |  |
| Tetanus | - | 1 | 0 | 16 | 28 | 41 | 27 | 34 |  |
| Toxic-shock syndrome (staphylococcal)§ | - | 6 | 2 | 72 | 92 | 101 | 90 | 95 |  |
| Trichinellosis | - | 4 | 0 | 37 | 5 | 15 | 16 | 5 |  |
| Tularemia | 1 | 3 | 0 | 111 | 137 | 95 | 154 | 134 | NE (1) |
| Typhoid fever | 1 | 30 | 6 | 415 | 434 | 353 | 324 | 322 | MO (1) |
| Vancomycin-intermediate Staphylococcus aureus§ | - | 3 | 0 | 42 | 37 | 6 | 2 | - |  |
| Vancomycin-resistant Staphylococcus aureus§ | - | - | - | 1 | 2 | 1 | 3 | 1 |  |
| Vibriosis (noncholera Vibrio species infections)§ | 2 | 14 | 1 | 459 | 549 | N | N | N | OH (1), FL (1) |
| Yellow fever | - | - | - | - | - | - | - | - |  |

See Table I footnotes on next page.

TABLE I. (Continued) Provisional cases of infrequently reported notifiable diseases ( $<1,000$ cases reported during the preceding year) United States, week ending February 14, 2009 (6th week)*
一: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts.

* Incidence data for reporting year 2008 and 2009 are provisional, whereas data for 2004, 2005, 2006, and 2007 are finalized.
$\dagger$ Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf.
§ Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
I Includes both neuroinvasive and nonneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, VectorBorne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
** The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to E. chaffeensis); Ehrlichiosis, human granulocytic (analogous to Anaplasma phagocytophilum), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of $E$. ewingii).
t† Data for H. influenzae (all ages, all serotypes) are available in Table II.
§§ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
IIf Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Nine influenza-associated pediatric deaths occurring during the 2008-09 influenza season have been reported.
*** The one measles case reported for the current week was indigenous.
${ }^{\dagger \dagger \dagger}$ Data for meningococcal disease (all serogroups) are available in Table II.
§\$ In 2008, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
आाๆा No rubella cases were reported for the current week.
**** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals February 14, 2009, with historical data


* Ratio of current 4-week total to mean of 154-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.


## Notifiable Disease Data Team and 122 Cities Mortality Data Team

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TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending February 14, 2009, and February 9, 2008 (6th week)*

| Reporting area | Chlamydia ${ }^{\text {a }}$ |  |  |  |  | Coccidiodomycosis |  |  |  |  | Cryptosporidiosis |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \\ & \hline \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \\ & \hline \end{aligned}$ | Current week | Previous 52 week |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 8,775 | 21,446 | 41,534 | 97,183 | 119,813 | 99 | 125 | 336 | 808 | 866 | 36 | 104 | 459 | 307 | 390 |
| New England | 911 | 709 | 1,636 | 4,552 | 3,423 | - | 0 | 0 | - | 1 | 1 | 5 | 20 | 8 | 58 |
| Connecticut | 290 | 215 | 1,282 | 971 | 467 | N | 0 | 0 | N | N | - | 0 | 3 | 3 | 38 |
| Maine§ | 51 | 51 | 72 | 341 | 298 | N | 0 | 0 | N | N | - | 1 | 6 | 2 | - |
| Massachusetts | 462 | 327 | 1,018 | 2,663 | 2,026 | N | 0 | 0 | N | N | - | 1 | 9 | - | 9 |
| New Hampshire | 1 | 40 | 64 | 127 | 264 | - | 0 | 0 | - | 1 | - | 1 | 4 | 2 | 4 |
| Rhode Island§ | 54 | 53 | 208 | 321 | 352 | - | 0 | 0 | - | - | - | 0 | 3 | - | - |
| Vermont§ | 53 | 17 | 52 | 129 | 16 | N | 0 | 0 | N | N | 1 | 1 | 7 | 1 | 7 |
| Mid. Atlantic | 1,271 | 2,755 | 5,086 | 14,456 | 14,162 | - | 0 | 0 | - | - | 4 | 13 | 34 | 38 | 51 |
| New Jersey | 296 | 414 | 642 | 1,490 | 2,641 | N | 0 | 0 | N | N | - | 0 | 2 | - | 2 |
| New York (Upstate) | 609 | 542 | 2,858 | 2,698 | 1,916 | N | 0 | 0 | N | N | 3 | 4 | 17 | 18 | 8 |
| New York City | - | 1,099 | 3,410 | 6,230 | 4,686 | N | 0 | 0 | N | N | - | 1 | 6 | 5 | 15 |
| Pennsylvania | 366 | 789 | 1,074 | 4,038 | 4,919 | N | 0 | 0 | N | N | 1 | 5 | 15 | 15 | 26 |
| E.N. Central | 1,472 | 3,065 | 24,584 | 12,481 | 19,548 | - | 1 | 3 | 1 | 5 | 7 | 25 | 125 | 62 | 81 |
| Illinois | - | 631 | 22,152 | 2,519 | 3,833 | N | 0 | 0 | N | N | - | 2 | 13 | 2 | 11 |
| Indiana | 330 | 376 | 713 | 2,018 | 2,460 | N | 0 | 0 | N | N | - | 3 | 13 | 5 | 6 |
| Michigan | 942 | 843 | 1,226 | 5,234 | 5,098 | - | 0 | 3 | - | 4 | 1 | 5 | 13 | 15 | 21 |
| Ohio | 53 | 812 | 1,346 | 1,593 | 5,430 | - | 0 | 2 | 1 | 1 | 6 | 6 | 59 | 30 | 23 |
| Wisconsin | 147 | 295 | 488 | 1,117 | 2,727 | N | 0 | 0 | N | N | - | 9 | 46 | 10 | 20 |
| W.N. Central | 779 | 1,273 | 1,696 | 6,508 | 7,234 | - | 0 | 2 | - | - | - | 16 | 68 | 31 | 44 |
| Iowa | - | 178 | 239 | 910 | 984 | N | 0 | 0 | N | N | - | 4 | 30 | 5 | 15 |
| Kansas | 378 | 181 | 529 | 1,127 | 631 | N | 0 | 0 | N | N | - | 1 | 8 | 3 | 5 |
| Minnesota | - | 259 | 311 | 882 | 1,840 | - | 0 | 0 | - | - | - | 4 | 15 | 8 | 9 |
| Missouri | 345 | 490 | 566 | 2,782 | 2,700 | - | 0 | 2 | - | - | - | 3 | 13 | 7 | 3 |
| Nebraska§ | . | 83 | 244 | 433 | 511 | N | 0 | 0 | N | N | - | 2 | 8 | 4 | 8 |
| North Dakota | 5 | 34 | 58 | 3 | 240 | N | 0 | 0 | N | N | - | 0 | 2 | - | 1 |
| South Dakota | 56 | 56 | 85 | 371 | 328 | N | 0 | 0 | N | N | - | 1 | 9 | 4 | 3 |
| S. Atlantic | 749 | 3,599 | 6,326 | 16,302 | 21,409 | - | 0 | 1 | 1 | - | 11 | 19 | 47 | 103 | 69 |
| Delaware | 151 | 70 | 150 | 668 | 376 | - | 0 | 1 | - | - | - | 0 | 1 | - | 3 |
| District of Columbia | . | 127 | 201 | 652 | 791 | - | 0 | 0 | - | - | - | 0 | 2 | - | 1 |
| Florida | - | 1,369 | 1,571 | 6,532 | 7,023 | N | 0 | 0 | N | N | 2 | 8 | 35 | 34 | 35 |
| Georgia | 9 | 577 | 1,307 | 1,263 | 3,254 | N | 0 | 0 | N | N | 8 | 5 | 13 | 48 | 17 |
| Maryland§ | - | 434 | 693 | 1,446 | 2,156 | - | 0 | 1 | 1 | - | - | 1 | 4 | 3 | - |
| North Carolina | - | 0 | 478 | - | 1,757 | N | 0 | 0 | N | N | 1 | 0 | 16 | 15 | 2 |
| South Carolina§ | 571 | 475 | 3,040 | 2,997 | 3,210 | N | 0 | 0 | N | N | - | 1 | 4 | 1 | 5 |
| Virginia§ | - | 618 | 1,059 | 2,389 | 2,465 | N | 0 | 0 | N | N | - | 1 | 4 | 1 | 2 |
| West Virginia | 18 | 61 | 102 | 355 | 377 | N | 0 | 0 | N | N | - | 0 | 3 | 1 | 4 |
|  | 859 | 1,579 | 2,022 | 8,502 | 9,231 | - | 0 | 0 | - | - | - | 2 | 9 | 8 | 14 |
| Alabama§ | - | 433 | 535 | 1,428 | 2,898 | N | 0 | 0 | N | N | - | 1 | 6 | 2 | 8 |
| Kentucky | 315 | 240 | 373 | 1,487 | 1,292 | N | 0 | 0 | N | N | - | 0 | 4 | 1 | 3 |
| Mississippi | - | 413 | 704 | 2,149 | 2,037 | N | 0 | 0 | N | N | - | 0 | 2 | 3 | 1 |
| Tennessee§ | 544 | 537 | 790 | 3,438 | 3,004 | N | 0 | 0 | N | N | - | 1 | 6 | 2 | 2 |
| W.S. Central | 313 | 2,820 | 3,525 | 10,895 | 15,866 | - | 0 | 1 | - | - | - | 6 | 164 | 2 | 16 |
| Arkansas§ | - | 274 | 455 | 1,449 | 1,602 | N | 0 | 0 | N | N | - | 0 | 7 | - | 1 |
| Louisiana | 250 | 418 | 775 | 1,843 | 1,771 | - | 0 | 1 | - | - | - | 1 | 5 | - | 3 |
| Oklahoma | 63 | 197 | 392 | 496 | 1,282 | N | 0 | 0 | N | N | - | 1 | 16 | 2 | 5 |
| Texas§ | - | 1,904 | 2,338 | 7,107 | 11,211 | N | 0 | 0 | N | N | - | 3 | 149 | - | 7 |
| Mountain | 463 | 1,278 | 1,949 | 4,369 | 8,219 | 75 | 88 | 181 | 585 | 527 | 2 | 8 | 37 | 20 | 28 |
| Arizona | 256 | 469 | 650 | 1,963 | 2,523 | 75 | 86 | 179 | 578 | 508 | - | 1 | 9 | 2 | 8 |
| Colorado | - | 242 | 588 | 756 | 2,157 | N | 0 | 0 | N | N | 2 | 1 | 12 | 5 | 5 |
| Idaho§ | - | 61 | 314 | 34 | 439 | N | 0 | 0 | N | N | 2 | 1 | 5 | 2 | 6 |
| Montana§ | 15 | 57 | 87 | 187 | 369 | N | 0 | 0 | N | N | - | 1 | 3 | 2 | 3 |
| Nevada§ | 162 | 175 | 415 | 877 | 1,221 | - | 0 | 6 | 4 | 6 | - | 0 | 1 | 2 | - |
| New Mexico§ |  | 127 | 455 | 194 | 738 | - | 0 | 3 | 1 | 6 | - | 2 | 23 | 5 | 3 |
| Utah | - | 107 | 253 | 155 | 696 | - | 0 | 1 | 2 | 7 | - | 0 | 6 | - | 3 |
| Wyoming§ | 30 | 31 | 58 | 203 | 76 | - | 0 | 1 | - | - | - | 0 | 4 | 2 | - |
| Pacific | 1,958 | 3,696 | 4,465 | 19,118 | 20,721 | 24 | 35 | 165 | 221 | 333 | 11 | 8 | 29 | 35 | 29 |
| Alaska | 93 | 82 | 184 | 516 | , 451 | N | 0 | 0 | N | N | - | 0 | 1 | 1 |  |
| California | 1,355 | 2,876 | 3,312 | 15,168 | 15,816 | 24 | 35 | 165 | 221 | 333 | 7 | 5 | 14 | 22 | 22 |
| Hawaii | 22 | 101 | 161 | 457 | 633 | N | 0 | 0 | N | N | - | 0 | 1 | - | - |
| Oregon§ | 180 | 186 | 631 | 1,038 | 1,170 | N | 0 | 0 | N | N | 4 | 1 | 4 | 10 | 6 |
| Washington | 308 | 404 | 527 | 1,939 | 2,651 | N | 0 | 0 | N | N | - | 1 | 16 | 2 | 1 |
|  | - | 0 | 14 | - | 29 | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| C.N.M.I. | - | 0 | , | - |  | N | 0 | 0 | N | N | N | 0 |  | N | N |
| Guam | - | 4 | 24 | - | 12 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | 234 | 119 | 333 | 892 | 367 | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| U.S. Virgin Islands | - | 12 | 23 | - | 63 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly.
${ }^{\dagger}$ Chlamydia refers to genital infections caused by Chlamydia trachomatis.
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 14, 2009, and February 9, 2008 (6th week)*

| Reporting area | Giardiasis |  |  |  |  | Gonorrhea |  |  |  |  | Haemophilus influenzae, invasive All ages, all serotypes ${ }^{\dagger}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \\ & \hline \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous <br> 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \\ & \hline \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 215 | 307 | 591 | 1,267 | 1,506 | 1,878 | 5,777 | 14,991 | 23,719 | 34,731 | 30 | 47 | 87 | 255 | 405 |
| New England | 10 | 23 | 49 | 62 | 150 | 112 | 100 | 299 | 590 | 489 | 6 | 2 | 8 | 10 | 26 |
| Connecticut |  | 5 | 14 | 21 | 35 | 46 | 51 | 272 | 205 | 102 | 5 | 0 | 7 | 5 | - |
| Maine§ | 7 | 3 | 12 | 21 | 12 | 3 | 2 | 6 | 12 | 6 | - | 0 | 2 | 2 | 2 |
| Massachusetts | - | 7 | 17 | - | 57 | 52 | 38 | 124 | 322 | 326 | - | 0 | 4 | - | 20 |
| New Hampshire | 3 | 2 | 11 | 7 | 16 | 1 | 2 | 6 | 10 | 8 | - | 0 | 1 | 1 | 1 |
| Rhode Island§ | - | 1 | 8 | 2 | 12 | 7 | 5 | 13 | 36 | 47 | - | 0 | 7 | 1 | - |
| Vermont ${ }^{\text {® }}$ | - | 3 | 13 | 11 | 18 | 3 | 1 | 3 | 5 | - | 1 | 0 | 3 | 1 | 3 |
| Mid. Atlantic | 31 | 60 | 108 | 211 | 285 | 254 | 612 | 989 | 2,993 | 3,229 | 2 | 10 | 15 | 48 | 73 |
| New Jersey | - | 5 | 14 | - | 53 | 61 | 91 | 167 | 275 | 718 | - | 1 | 5 | - | 19 |
| New York (Upstate) | 18 | 21 | 67 | 93 | 73 | 126 | 115 | 462 | 562 | 530 | 1 | 3 | 11 | 20 | 15 |
| New York City | 3 | 16 | 30 | 59 | 81 |  | 207 | 633 | 1,178 | 717 | - | 1 | 6 | 2 | 11 |
| Pennsylvania | 10 | 16 | 46 | 59 | 78 | 67 | 211 | 268 | 978 | 1,264 | 1 | 4 | 10 | 26 | 28 |
| E.N. Central | 15 | 47 | 88 | 149 | 264 | 474 | 1,047 | 10,422 | 4,302 | 7,367 | 1 | 7 | 18 | 31 | 62 |
| Illinois |  | 11 | 32 | 11 | 72 | - | 185 | 9,613 | 884 | 1,255 | - | 2 | 7 | 2 | 25 |
| Indiana | N | 0 | 7 | N | N | 133 | 147 | 254 | 771 | 1,086 | - | 1 | 13 | 8 | 4 |
| Michigan | 2 | 12 | 22 | 43 | 47 | 270 | 313 | 657 | 1,825 | 2,113 | - | 0 | 2 | 2 | 4 |
| Ohio | 12 | 17 | 31 | 84 | 96 | 13 | 279 | 531 | 454 | 2,120 | 1 | 2 | 6 | 17 | 22 |
| Wisconsin | 1 | 8 | 20 | 11 | 49 | 58 | 77 | 141 | 368 | 793 | - | 0 | 2 | 2 | 7 |
| W.N. Central | 12 | 29 | 143 | 123 | 111 | 156 | 315 | 397 | 1,575 | 1,949 | 1 | 3 | 12 | 19 | 35 |
| lowa | 2 | 6 | 18 | 28 | 32 |  | 29 | 50 | 112 | 194 | - | 0 | 1 | - | 1 |
| Kansas | 3 | 3 | 11 | 16 | 12 | 63 | 41 | 130 | 298 | 165 | - | 0 | 3 | 1 | 1 |
| Minnesota | - | 0 | 106 |  | 2 |  | 53 | 78 | 167 | 452 | - | 0 | 10 | 4 | 9 |
| Missouri | 6 | 8 | 22 | 53 | 38 | 88 | 148 | 193 | 812 | 933 | 1 | 1 | 4 | 9 | 18 |
| Nebraska§ | 1 | 4 | 10 | 19 | 18 | - | 25 | 49 | 128 | 162 | - | 0 | 2 | 5 | 5 |
| North Dakota | - | 0 | 3 | 7 | 4 | - | 2 | 6 | - | 20 | - | 0 | 3 | - | 1 |
| South Dakota | - | 2 | 10 | 7 | 5 | 5 | 8 | 20 | 58 | 23 | - | 0 | 0 | - | - |
| S. Atlantic | 93 | 56 | 90 | 401 | 251 | 200 | 1,267 | 2,008 | 4,769 | 7,164 | 11 | 12 | 25 | 86 | 106 |
| Delaware | - | 1 | 3 | 3 | 3 | 34 | 19 | 44 | 134 | 137 | - | 0 | 2 | - | 1 |
| District of Columbia | - | 1 | 5 | - | 3 |  | 53 | 101 | 290 | 256 | - | 0 | 2 | - | 2 |
| Florida | 37 | 26 | 57 | 213 | 110 | - | 441 | 518 | 2,035 | 2,673 | 4 | 3 | 9 | 31 | 23 |
| Georgia | 56 | 9 | 34 | 136 | 57 | 3 | 229 | 481 | 401 | 1,225 | 2 | 2 | 9 | 20 | 29 |
| Maryland§ | - | 5 | 12 | 19 | 24 | - | 116 | 212 | 349 | 700 | 1 | 1 | 6 | 11 | 24 |
| North Carolina | N | 0 | 0 | N | N | - | 0 | 831 | - | 193 | 1 | 1 | 9 | 10 | 6 |
| South Carolina§ | - | 2 | 6 | 7 | 13 | 160 | 178 | 829 | 886 | 1,192 | - | 1 | 7 | 2 | 6 |
| Virginia§ | - | 7 | 26 | 21 | 32 | - | 182 | 486 | 599 | 699 | - | 1 | 7 | 3 | 10 |
| West Virginia | - | 1 | 5 | 2 | 9 | 3 | 14 | 26 | 75 | 89 | 3 | 0 | 3 | 9 | 5 |
| E.S. Central | - | 8 | 22 | 9 | 41 | 235 | 544 | 764 | 2,702 | 3,456 | - | 3 | 8 | 14 | 22 |
| Alabama§ | - | 4 | 12 | 2 | 27 |  | 164 | 217 | 505 | 1,207 | - | 0 | 2 | 1 | 4 |
| Kentucky | N | 0 | 0 | N | N | 105 | 89 | 153 | 477 | 522 | - | 0 | 1 | 1 | - |
| Mississippi | N | 0 | 0 | N | N | - | 140 | 285 | 694 | 764 | - | 0 | 2 | $\overline{12}$ | 2 |
| Tennessee§ | - | 3 | 13 | 7 | 14 | 130 | 164 | 297 | 1,026 | 963 | - | 2 | 6 | 12 | 16 |
| W.S. Central | 4 | 8 | 21 | 24 | 19 | 113 | 946 | 1,297 | 3,330 | 5,834 | 4 | 2 | 17 | 11 | 7 |
| Arkansas§ | 1 | 2 | 8 | 5 | 8 | - | 84 | 167 | 417 | 556 | - | 0 | 2 | 1 | - |
| Louisiana | 2 | 2 | 10 | 11 | 6 | 96 | 165 | 317 | 679 | 975 | - | 0 | 1 | 1 | 1 |
| Oklahoma | 1 | 3 | 11 | 8 | 5 | 17 | 71 | 141 | 169 | 581 | 4 | 1 | 16 | 9 | 6 |
| Texas§ | N | 0 | 0 | N | N | - | 604 | 729 | 2,065 | 3,722 | - | 0 | 2 | - | - |
| Mountain | 15 | 26 | 62 | 103 | 137 | 73 | 199 | 337 | 520 | 1,349 | 5 | 5 | 12 | 31 | 56 |
| Arizona | 2 | 3 | 8 | 18 | 12 | 30 | 62 | 86 | 231 | 407 | 3 | 2 | 6 | 19 | 27 |
| Colorado | 12 | 10 | 27 | 33 | 51 | - | 56 | 101 | 104 | 342 | 2 | 1 | 5 | 5 | 11 |
| Idaho§ | - | 3 | 14 | 8 | 14 | - | 3 | 13 | - | 21 | - | 0 | 4 | 1 | - |
| Montana§ | - | 1 | 9 | 14 | 7 | - | 2 | 6 | 4 | 12 | - | 0 | 1 | - | 1 |
| Nevada§ | - | 1 | 8 | 3 | 11 | 41 | 35 | 129 | 151 | 328 | - | 0 | 2 | 1 | 2 |
| New Mexico§ | - | 1 | 7 | 2 | 13 | - | 22 | 47 | 19 | 175 | - | 1 | 4 | 3 | 7 |
| Utah | 1 | 6 | 18 | 19 | 25 | - | 8 | 19 | 5 | 58 | - | 0 | 5 | 2 | 8 |
| Wyoming§ | - | 0 | 3 | 6 | 4 | 2 | 2 | 9 | 6 | 6 | - | 0 | 2 | - | - |
| Pacific | 35 | 55 | 138 | 185 | 248 | 261 | 593 | 716 | 2,938 | 3,894 | - | 2 | 6 | 5 | 18 |
| Alaska |  | 2 | 10 | 6 | 6 | 11 | 11 | 19 | 81 | 49 | - | 0 | 1 | 2 | 2 |
| California | 30 | 35 | 56 | 139 | 186 | 178 | 489 | 591 | 2,428 | 3,229 | - | 0 | 3 | - | 7 |
| Hawaii | - | 1 | 4 | 1 | 2 | 3 | 11 | 22 | 50 | 76 | - | 0 | 2 | 2 | 1 |
| Oregon§ | 2 | 8 | 18 | 20 | 49 | 28 | 23 | 48 | 143 | 159 | - | 1 | 4 | 1 | 8 |
| Washington | 3 | 8 | 88 | 19 | 5 | 41 | 55 | 90 | 236 | 381 | - | 0 | 2 | - | - |
| American Samoa | - | 0 | 0 | - | - | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 0 | 5 | 13 | - | 1 | 15 |  | 4 | - | 0 | 0 | - | - |
| Puerto Rico | - | 2 | 13 | 5 | 13 | 3 | 4 | 25 | 21 | 33 | - | 0 | 0 | - | - |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 2 | 6 | - | 11 | N | 0 | 0 | N | N |

[^6]U: Unavailable. -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.
${ }^{\dagger}$ Data for $H$. influenzae (age < 5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table I.
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 14, 2009, and February 9, 2008 (6th week)*

| Reporting area | Hepatitis (viral, acute), by type ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  | Legionellosis |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | A |  |  | $\begin{aligned} & \text { Cum } \\ & 2008 \\ & \hline \end{aligned}$ | Current week | B |  |  | $\begin{aligned} & \text { Cum } \\ & 2008 \\ & \hline \end{aligned}$ |  |  |  |  |  |
|  |  | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \\ & \hline \end{aligned}$ |  |  |  |  | Cum |  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \\ & \hline \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max | 2009 |  |  | Med | Max |  |  |
| United States | 29 | 44 | 76 | 159 | 303 | 35 | 68 | 99 | 262 | 394 | 12 | 45 | 145 | 162 | 211 |
| New England | - | 1 | 5 | 1 | 20 | 1 | 1 | 3 | 2 | 12 | - | 2 | 16 | 4 | 6 |
| Connecticut | - | 0 | 4 | 1 | 3 | - | 0 | 2 | 1 | 7 | - | 0 | 5 | 3 | 2 |
| Maine ${ }^{\text {§ }}$ | - | 0 | 2 | , | 2 | 1 | 0 | 2 | 1 | 1 | - | 0 | 2 | - |  |
| Massachusetts | - | 0 | 4 | - | 11 | - | 0 | 1 | - | 3 | - | 0 | 2 | - | 1 |
| New Hampshire | - | 0 | 2 | - | - | - | 0 | 2 | - | 1 | - | 0 | 5 | - | - |
| Rhode Island§ | - | 0 | 2 | - | 4 | - | 0 | 1 | - | - | - | 0 | 14 | 1 | 1 |
| Vermont ${ }^{\text {§ }}$ | - | 0 | 1 | - | - | - | 0 | 1 | - | - | - | 0 | 1 | - | 2 |
| Mid. Atlantic | 1 | 5 | 12 | 17 | 47 | 1 | 8 | 14 | 16 | 60 | 5 | 14 | 59 | 43 | 54 |
| New Jersey | - | 1 | 4 | 2 | 10 | - | 1 | 7 | - | 24 | - | 1 | 8 | 2 | 8 |
| New York (Upstate) | - | 1 | 4 | 6 | 7 | 1 | 1 | 8 | 11 | 2 | 1 | 5 | 19 | 14 | 10 |
| New York City | - | 2 | 6 | 2 | 14 | - | 1 | 6 | - | 7 | - | 2 | 12 | 1 | 8 |
| Pennsylvania | 1 | 1 | 4 | 7 | 16 | - | 2 | 8 | 5 | 27 | 4 | 6 | 33 | 26 | 28 |
| E.N. Central | 2 | 6 | 16 | 23 | 50 | 4 | 8 | 16 | 41 | 47 | 1 | 9 | 40 | 36 | 62 |
| Illinois | - | 1 | 10 | 2 | 17 | - | 2 | 7 | - | 12 | - | 1 | 10 | - | 11 |
| Indiana | - | 0 | 4 | 2 | 2 | - | 1 | 7 | 4 | 1 | - | 1 | 6 | 2 | 1 |
| Michigan | - | 2 | 5 | 9 | 23 | 3 | 3 | 7 | 12 | 15 | - | 2 | 16 | 8 | 20 |
| Ohio | 2 | 1 | 4 | 9 | 5 | 1 | 2 | 13 | 25 | 16 | 1 | 3 | 18 | 24 | 28 |
| Wisconsin | - | 0 | 2 | 1 | 3 | - | 0 | 1 |  | 3 | - | 0 | 3 | 2 | 2 |
| W.N. Central | 1 | 4 | 16 | 7 | 34 | 1 | 2 | 7 | 17 | 8 | - | 2 | 9 | 1 | 9 |
| Iowa | - | 1 | 7 | - | 15 | - | 0 | 3 | 3 | 1 | - | 0 | 2 | - | 3 |
| Kansas | - | 0 | 3 | - | 3 | - | 0 | 3 | - | 1 | - | 0 | 1 | 1 | - |
| Minnesota | - | 0 | 8 | 1 | 2 | - | 0 | 7 | 1 | - | - | 0 | 4 | - | - |
| Missouri | - | 1 | 3 | 5 | 5 | 1 | 1 | 5 | 11 | 6 | - | 1 | 7 | - | 1 |
| Nebraska§ | 1 | 0 | 5 | 1 | 8 | - | 0 | 2 | 2 | - | - | 0 | 4 | - | 4 |
| North Dakota | - | 0 | 0 | - | - | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| South Dakota | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - | - | 0 | 1 | - | 1 |
| S. Atlantic | 7 | 7 | 15 | 47 | 44 | 19 | 17 | 34 | 101 | 117 | 1 | 8 | 22 | 43 | 36 |
| Delaware | - | 0 | 1 | - | - | - | 0 | 1 | - | 4 | - | 0 | 2 | - | - |
| District of Columbia | U | 0 | 0 | U | U | U | 0 | 0 | U | U | - | 0 | 2 | - | 1 |
| Florida | 4 | 2 | 8 | 26 | 14 | 8 | 6 | 11 | 40 | 38 | - | 3 | 7 | 15 | 16 |
| Georgia | 1 | 1 | 4 | 7 | 7 | 1 | 3 | 8 | 17 | 17 | 1 | 0 | 5 | 10 | 3 |
| Maryland§ | - | 1 | 4 | 7 | 7 | 1 | 2 | 4 | 10 | 11 | - | 2 | 10 | 7 | 9 |
| North Carolina | 1 | 0 | 9 | 5 | 9 | 8 | 0 | 17 | 27 | 18 | - | 0 | 7 | 11 | 3 |
| South Carolina§ | - | 0 | 3 | - | 1 | 1 | 1 | 4 | 1 | 15 | - | 0 | 2 | - | 1 |
| Virginia§ | 1 | 1 | 5 | 2 | 4 | - | 2 | 7 | 3 | 6 | - | 1 | 4 | - | 2 |
| West Virginia | - | 0 | 1 | - | 2 | - | 1 | 4 | 3 | 8 | - | 0 | 3 | - | 1 |
|  | - | 1 | 9 | 4 | 6 | 2 | 7 | 13 | 23 | 43 | - | 2 | 10 | 8 | 9 |
| Alabama§ | - | 0 | 2 | 1 | 1 | - | 1 | 6 | 2 | 14 | - | 0 | 2 | - | - |
| Kentucky | - | 0 | 3 | - | 3 | - | 2 | 5 | 6 | 17 | - | 1 | 4 | 2 | 6 |
| Mississippi | - | 0 | 2 | 2 | - | - | 1 | 3 | 4 | 2 | - | 0 | 1 | - | - |
| Tennessee§ | - | 0 | 6 | 1 | 2 | 2 | 3 | 8 | 11 | 10 | - | 1 | 5 | 6 | 3 |
| W.S. Central | - | 5 | 12 | 4 | 14 | 3 | 13 | 24 | 21 | 49 | - | 1 | 9 | 1 | 4 |
| Arkansas§ | - | 0 | 1 | - | - | - | 0 | 4 | - | 1 | - | 0 | 2 | - | - |
| Louisiana | - | 0 | 2 | - | 1 | - | 1 | 4 | 2 | 6 | - | 0 | 2 | 1 | - |
| Oklahoma | - | 0 | 5 | 1 | $\bar{\square}$ | 3 | 2 | 10 | 7 |  | - | 0 | 6 | - | - |
| Texas§ | - | 4 | 11 | 3 | 13 | - | 8 | 18 | 12 | 42 | - | 1 | 5 | - | 4 |
| Mountain | 1 | 4 | 12 | 7 | 20 | 1 | 3 | 12 | 9 | 20 | - | 2 | 8 | 10 | 11 |
| Arizona | 1 | 1 | 11 | 6 | 10 | 1 | 1 | 5 | 3 | 12 | - | 0 | 3 | 5 | 3 |
| Colorado | - | 0 | 3 | 1 | 4 | - | 0 | 3 | 1 | 2 | - | 0 | 2 | - | 2 |
| Idaho§ | - | 0 | 3 | - | 2 | - | 0 | 2 | - | - | - | 0 | 1 | - | 1 |
| Montana§ | - | 0 | 1 | - | - | - | 0 | 1 | - | - | - | 0 | 1 | 1 | 1 |
| Nevada§ | - | 0 | 3 | - | - | - | 0 | 3 | 2 | 3 | - | 0 | 2 | 3 | 1 |
| New Mexico§ | - | 0 | 3 | - | 2 | - | 0 | 2 | 3 | 2 | - | 0 | 1 | - | - |
| Utah | - | 0 | 2 | - | 1 | - | 0 | 3 | - | 1 | - | 0 | 2 | 1 | 3 |
| Wyoming§ | - | 0 | 1 | - | 1 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Pacific | 17 | 9 | 25 | 49 | 68 | 3 | 6 | 39 | 32 | 38 | 5 | 4 | 10 | 16 | 20 |
| Alaska | 1 | 0 | 1 | 1 | - | - | 0 | 2 | 1 | - | - | 0 | 1 | 1 | - |
| California | 15 | 7 | 25 | 43 | 55 | 2 | 5 | 25 | 26 | 30 | 4 | 3 | 8 | 12 | 17 |
| Hawaii | - | 0 | 2 | 1 | 1 | 1 | 0 | 1 | 1 | 2 |  | 0 | 1 | - | 1 |
| Oregon§ | - | 0 | 2 | 1 | 8 | - | 0 | 3 | 2 | 6 | - | 0 | 2 | 1 | 2 |
| Washington | 1 | 1 | 6 | 3 | 4 | - | 1 | 14 | 2 | - | 1 | 0 | 3 | 2 | 2 |
| American Samoa | - | 0 | 0 | - | - | - | 0 | 0 | - | - | N | 0 | 0 | N | N |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | - | 0 | 2 | 1 | 1 | - | 0 | 5 | - | 6 | - | 0 | 1 | - | - |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.
${ }^{\dagger}$ Data for acute hepatitis C, viral are available in Table I.
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 14, 2009, and February 9, 2008 (6th week)*

| Reporting area | Lyme disease |  |  |  |  | Malaria |  |  |  |  | Meningococcal disease, invasive ${ }^{\dagger}$ All serotypes |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 42 | 447 | 1,456 | 523 | 800 | 11 | 20 | 44 | 73 | 104 | 6 | 17 | 48 | 59 | 123 |
| New England | 1 | 45 | 260 | 32 | 119 | - | 0 | 6 | 1 | 4 | - | 0 | 3 | - | 4 |
| Connecticut | - | 0 | 0 | - | - | - | 0 | 3 | - | - | - | 0 | 1 | - | - |
| Maine§ | 1 | 6 | 73 | 5 | - | - | 0 | 0 | - | 1 | - | 0 | 1 | - | - |
| Massachusetts | - | 7 | 114 | - | 84 | - | 0 | 2 | - | 3 | - | 0 | 3 | - | 4 |
| New Hampshire | - | 13 | 141 | 13 | 31 | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Rhode Island§ | - | 0 | 0 | - | - | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Vermont ${ }^{\S}$ | - | 4 | 40 | 14 | 4 | - | 0 | 1 | 1 | - | - | 0 | 0 | - | - |
| Mid. Atlantic | 28 | 250 | 1,006 | 229 | 435 | 2 | 4 | 14 | 11 | 23 | 1 | 2 | 6 | 4 | 12 |
| New Jersey | - | 29 | 211 | 32 | 138 | - | 0 | 0 | - | - | - | 0 | 2 | - | 3 |
| New York (Upstate) | 19 | 99 | 939 | 55 | 23 | 1 | 0 | 10 | 6 | 2 | - | 0 | 3 | - | 2 |
| New York City |  | 1 | 6 | - | 8 | - | 3 | 10 | 2 | 16 | - | 0 | 2 | 1 | 2 |
| Pennsylvania | 9 | 95 | 533 | 142 | 266 | 1 | 1 | 3 | 3 | 5 | 1 | 1 | 5 | 3 | 5 |
| E.N. Central | 1 | 12 | 146 | 21 | 34 | - | 2 | 7 | 4 | 22 | - | 3 | 9 | 10 | 24 |
| Illinois | - | 1 | 12 | - | 2 | - | 1 | 5 | - | 12 | - | 1 | 5 | - | 11 |
| Indiana | 1 | 0 | 8 | - |  | - | 0 | 2 | - | - | - | 0 | 4 | 1 | 1 |
| Michigan | 1 | 1 | 10 | 3 | 2 | - | 0 | 2 | 1 | 3 | - | 0 | 3 | 2 | 5 |
| Ohio | - | 0 | 5 | 1 | 1 | - | 0 | 2 | 3 | 7 | - | 1 | 4 | 7 | 5 |
| Wisconsin | - | 9 | 129 | 17 | 29 | - | 0 | 3 | - | - | - | 0 | 2 | - | 2 |
| W.N. Central | - | 8 | 193 | 3 | 3 | - | 1 | 10 | 2 | 1 | - | 2 | 6 | 7 | 16 |
| lowa | - | 1 | 8 | 2 | 3 | - | 0 | 3 | - | - | - | 0 | 3 | 1 | 3 |
| Kansas | - | 0 | 1 | 1 |  | - | 0 | 2 | 1 | - | - | 0 | 2 | 1 | 1 |
| Minnesota | - | 4 | 193 | - | - | - | 0 | 8 | 1 | - | - | 0 | 4 | 2 | 7 |
| Missouri | - | 0 | 1 | - | - | - | 0 | 3 | - | - | - | 0 | 3 | 3 | 3 |
| Nebraska§ | - | 0 | 2 | - | - | - | 0 | 2 | - | 1 | - | 0 | 1 | . | 1 |
| North Dakota | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| South Dakota | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 1 | - | 1 |
| S. Atlantic | 12 | 68 | 219 | 209 | 187 | 6 | 4 | 15 | 38 | 30 | 2 | 3 | 10 | 13 | 18 |
| Delaware | 3 | 12 | 37 | 33 | 42 | - | 0 | 1 | 1 | - | - | 0 | 1 |  |  |
| District of Columbia | - | 2 | 11 | - | 6 | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Florida | - | 2 | 10 | 13 | 2 | 3 | 1 | 7 | 12 | 9 | 1 | 1 | 3 | 6 | 6 |
| Georgia | - | 0 | 3 | 1 | - | - | 1 | 5 | 3 | 6 | - | 0 | 2 | 1 | 2 |
| Maryland§ | 8 | 31 | 158 | 144 | 117 | 3 | 1 | 7 | 11 | 12 | 1 | 0 | 4 | 1 | 1 |
| North Carolina | 1 | 0 | 7 | 6 | 2 | - | 0 | 7 | 8 | 2 | - | 0 | 3 | 3 | 3 |
| South Carolina§ | - | 0 | 2 | 2 | 1 | - | 0 | 1 | 1 | - | - | 0 | 3 | 1 | 4 |
| Virginia§ | - | 14 | 53 | 10 | 15 | - | 1 | 3 | 2 | 1 | - | 0 | 2 | 1 | 2 |
| West Virginia | - | 1 | 11 | - | 2 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| E.S. Central | - | 1 | 5 | 2 | 1 | 1 | 0 | 2 | 4 | 2 | - | 1 | 6 | - | 8 |
| Alabama§ | - | 0 | 2 | - | - | - | 0 | 1 | - | 1 | - | 0 | 2 | - | - |
| Kentucky | - | 0 | 2 | - | - | - | 0 | 1 | - | 1 | - | 0 | 1 | - | 4 |
| Mississippi | - | 0 | 1 | - | - | - | 0 | 1 | - | - | - | 0 | 2 | - | - |
| Tennessee§ | - | 0 | 3 | 2 | 1 | 1 | 0 | 2 | 4 | - | - | 0 | 3 | - | 4 |
|  | - | 2 | 8 | - | 1 | - | 1 | 11 | - | 4 | - | 2 | 7 | 3 | 12 |
| Arkansas ${ }^{\S}$ | - | 0 | 0 | - | - | - | 0 | 0 | - |  | - | 0 | 2 | 1 | - |
| Louisiana | - | 0 | 1 | - | - | - | 0 | 1 | - | - | - | 0 | 2 | 1 | 8 |
| Oklahoma | - | 0 | 1 | - | - | - | 0 | 2 | - | 1 | - | 0 | 3 | - | 2 |
| Texas§ | - | 2 | 8 |  | 1 | - | 1 | 11 | - | 3 | - | 1 | 5 | 1 | 2 |
| Mountain | - | 0 | 16 | 3 | 3 | - | 0 | 3 | - | 3 | 1 | 1 | 4 | 7 | 8 |
| Arizona | - | 0 | 2 | - | 2 | - | 0 | 2 | - | 2 | 1 | 0 | 2 | 3 | - |
| Colorado | - | 0 | 1 | 1 | - | - | 0 | 1 | - | 1 | - | 0 | 1 | 1 | 1 |
| Idaho§ | - | 0 | 1 | 1 | 1 | - | 0 | 1 | - | - | - | 0 | 1 | 1 | 1 |
| Montana§ | - | 0 | 16 | 1 | - | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Nevada§ | - | 0 | 2 | - | - | - | 0 | 3 | - | - | - | 0 | 1 | 2 | 1 |
| New Mexico§ | - | 0 | 2 | - | - | - | 0 | 1 | - | - | - | 0 | 1 | - | 1 |
| Utah | - | 0 | 1 | - | - | - | 0 | 1 | - | - | - | 0 | 1 | - | 3 |
| Wyoming§ | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 1 | - | 1 |
| Pacific | - | 4 | 18 | 24 | 17 | 2 | 3 | 10 | 13 | 15 | 2 | 5 | 19 | 15 | 21 |
| Alaska | - | 0 | 2 | - | - | - | 0 | 2 | - | - | - | 0 | 2 | 1 | - |
| California | - | 3 | 9 | 21 | 16 | 2 | 2 | 8 | 11 | 10 | 2 | 3 | 19 | 7 | 15 |
| Hawaii | N | 0 | 0 | N | N | - | 0 | 1 | - | 1 | - | 0 | 1 | 1 | - |
| Oregon§ | - | 1 | 3 | 3 | 1 | - | 0 | 1 | 1 | 3 | - | 1 | 3 | 3 | 4 |
| Washington | - | 0 | 11 | - | - | - | 0 | 7 | 1 | 1 | - | 0 | 5 | 3 | 2 |
| American Samoa | N | 0 | 0 | N | N | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| C.N.M.I. | N | - | - | - | - | - | - |  | - | - | - | 0 | 0 | - | - |
| Guam | - | 0 | 0 | - | - | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | N | 0 | 0 | N | N | - | 0 | 1 | 1 | - | - | 0 | 1 | - | - |
| U.S. Virgin Islands | N | 0 | 0 | N | N | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.
† Data for meningococcal disease, invasive caused by serogroups A, C, Y, and W-135; serogroup B; other serogroup; and unknown serogroup are available in Table I.
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 14, 2009, and February 9, 2008 (6th week)*

| Reporting area | Pertussis |  |  |  |  | Rabies, animal |  |  |  |  | Rocky Mountain spotted fever |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 68 | 181 | 605 | 870 | 976 | 23 | 103 | 169 | 251 | 483 | 4 | 40 | 146 | 61 | 30 |
| New England | - | 9 | 26 | 23 | 156 | 4 | 6 | 20 | 18 | 17 | - | 0 | 2 | - | 1 |
| Connecticut | - | 0 | 4 |  | 12 | 1 | 3 | 17 | 9 | 9 | - | 0 | 0 | - | - |
| Maine ${ }^{\dagger}$ | - | 1 | 7 | 15 | 7 | 1 | 1 | 5 | 4 | 2 | N | 0 | 0 | N | N |
| Massachusetts | - | 6 | 17 | 5 | 126 | N | 0 | 0 | N | N | - | 0 | 0 | - | 1 |
| New Hampshire | - | 1 | 4 | 5 | 4 | - | 0 | 3 | - | 3 | - | 0 | 1 | - | - |
| Rhode Island ${ }^{\dagger}$ | - | 0 | 8 | 1 | 5 | N | 0 | 0 | N | N | - | 0 | 2 | - | - |
| Vermont ${ }^{\dagger}$ | - | 0 | 2 | 2 | 2 | 2 | 1 | 6 | 5 | 3 | - | 0 | 0 | - | - |
| Mid. Atlantic | 9 | 18 | 51 | 78 | 106 | 3 | 33 | 67 | 48 | 102 | - | 1 | 24 | - | 3 |
| New Jersey | - | 1 | 6 | - | 9 | - | 0 | 0 | - | - | - | 0 | 2 | - | 2 |
| New York (Upstate) | 2 | 7 | 40 | 14 | 23 | 3 | 9 | 20 | 28 | 28 | - | 0 | 23 | - | - |
| New York City | - | 0 | 4 | - | 17 | - | 0 | 2 | - | 4 | - | 0 | 2 | - | 1 |
| Pennsylvania | 7 | 9 | 35 | 64 | 57 | - | 21 | 52 | 20 | 70 | - | 0 | 2 | - | - |
| E.N. Central | 11 | 35 | 169 | 242 | 336 | - | 3 | 29 | 3 | 1 | - | 1 | 15 | - | 1 |
| Illinois | - | 9 | 44 | 45 | 19 | - | 1 | 21 | 1 | 1 | - | 1 | 11 | - | 1 |
| Indiana | - | 1 | 96 | 12 | 2 | - | 0 | 2 | - | - | - | 0 | 3 | - | - |
| Michigan | 3 | 6 | 20 | 67 | 21 | - | 1 | 9 | 2 | - | - | 0 | 1 | - | - |
| Ohio | 8 | 10 | 57 | 116 | 282 | - | 1 | 7 | - | - | - | 0 | 4 | - | - |
| Wisconsin | - | 2 | 7 | 2 | 12 | N | 0 | 0 | N | N | - | 0 | 1 | - | - |
| W.N. Central | 9 | 21 | 126 | 209 | 91 | 2 | 3 | 13 | 3 | 10 | - | 4 | 32 | 2 | 1 |
| Iowa | - | 3 | 21 | 2 | 14 | - | 0 | 5 | - | 1 | - | 0 | 2 | - | - |
| Kansas | 2 | 1 | 13 | 8 | 3 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Minnesota | - | 2 | 99 | - | - | 2 | 0 | 10 | 2 | 4 | - | 0 | 0 | - | - |
| Missouri | 4 | 6 | 50 | 168 | 64 | - | 1 | 8 | - | - | - | 4 | 31 | 2 | 1 |
| Nebraska ${ }^{\dagger}$ | 3 | 2 | 33 | 29 | 8 | - | 0 | 0 | - | - | - | 0 | 4 | - | - |
| North Dakota | - | 0 | 1 | - | - | - | 0 | 7 | - | 2 | - | 0 | 0 | - | - |
| South Dakota | - | 0 | 7 | 2 | 2 | - | 0 | 2 | 1 | 3 | - | 0 | 1 | - | - |
| S. Atlantic | 11 | 18 | 44 | 122 | 71 | 12 | 34 | 88 | 147 | 326 | 4 | 15 | 71 | 55 | 19 |
| Delaware | - | 0 | 3 | 4 | - | - | 0 | 0 | - | - | - | 0 | 5 | - | - |
| District of Columbia | - | 0 | 1 | - | 2 | - | 0 | 0 | - | - | - | 0 | 2 | - | - |
| Florida | 6 | 6 | 20 | 47 | 11 | 7 | 0 | 3 | 15 | 139 | - | 0 | 3 | - | - |
| Georgia | - | 1 | 8 | 1 | 3 | - | 6 | 47 | 61 | 34 | - | 1 | 8 | 1 | 2 |
| Maryland ${ }^{\dagger}$ | - | 2 | 8 | 8 | 14 | - | 7 | 17 | 6 | 47 | - | 1 | 7 | 4 | 4 |
| North Carolina | 2 | 0 | 16 | 37 | 27 | 5 | 9 | 16 | 23 | 42 | 4 | 5 | 55 | 47 | 11 |
| South Carolina ${ }^{\dagger}$ | 1 | 2 | 11 | 13 | 3 | - | 0 | 0 | - | - | - | 1 | 9 | 1 | - |
| Virginia ${ }^{+}$ | - | 3 | 24 | 10 | 11 | - | 11 | 24 | 37 | 57 | - | 2 | 15 | 2 | 1 |
| West Virginia | 2 | 0 | 2 | 2 | - | - | 1 | 9 | 5 | 7 | - | 0 | 1 | - | 1 |
| E.S. Central | 7 | 8 | 29 | 69 | 36 | 1 | 3 | 7 | 9 | 10 | - | 3 | 23 | 2 | 2 |
| Alabama ${ }^{\text {a }}$ | - | 1 | 5 | 3 | 10 | - | 0 | 0 | - |  | - | 1 | 8 | 1 | 1 |
| Kentucky | 5 | 3 | 12 | 47 | 5 | 1 | 0 | 4 | 9 | 3 | - | 0 | 1 | - | - |
| Mississippi | 2 | 2 | 5 | 11 | 16 | - | 0 | 1 | - | 1 | - | 0 | 3 | - | - |
| Tennessee ${ }^{\dagger}$ | - | 2 | 14 | 8 | 5 | - | 2 | 6 | - | 6 | - | 2 | 19 | 1 | 1 |
| W.S. Central | 1 | 31 | 161 | 39 | 34 | - | 1 | 11 | 3 | 5 | - | 2 | 41 | 1 | 2 |
| Arkansas ${ }^{\dagger}$ | - | 1 | 20 | 1 | 12 | - | 0 | 6 | 2 | 5 | - | 0 | 14 | 1 | - |
| Louisiana | - | 1 | 7 | 7 | - | - | 0 | 0 | - |  | - | 0 | 1 | - | 1 |
| Oklahoma | 1 | 0 | 29 | 5 | 1 | - | 0 | 10 | 1 | - | - | 0 | 26 | - | - |
| Texas ${ }^{\dagger}$ | - | 26 | 154 | 26 | 21 | - | 0 | 1 | - | - | - | 1 | 6 | - | 1 |
| Mountain | 5 | 15 | 34 | 49 | 90 | 1 | 1 | 8 | 11 | 5 | - | 1 | 3 | 1 | 1 |
| Arizona | 2 | 3 | 10 | 8 | 20 | N | 0 | 0 | N | N | - | 0 | 2 | - | - |
| Colorado | 2 | 3 | 13 | 25 | 33 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Idaho ${ }^{\dagger}$ | 1 | 1 | 5 | 6 | 1 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Montana ${ }^{\dagger}$ | - | 0 | 11 | 3 | 9 | - | 0 | 2 | 2 | - | - | 0 | 1 | - | - |
| Nevada ${ }^{\dagger}$ | - | 0 | 7 | 5 | 1 | - | 0 | 4 | - | - | - | 0 | 2 | - | - |
| New Mexico ${ }^{\dagger}$ | - | 1 | 8 | 1 | 1 | 1 | 0 | 3 | 3 | 4 | - | 0 | 1 | - | 1 |
| Utah | - | 4 | 17 | 1 | 22 | - | 0 | 6 | - | - | - | 0 | 1 | 1 | - |
| Wyoming ${ }^{\dagger}$ | - | 0 | 2 | - | 3 | - | 0 | 4 | 6 | 1 | - | 0 | 2 | - | - |
| Pacific | 15 | 25 | 80 | 39 | 56 | - | 4 | 13 | 9 | 7 | - | 0 | 1 | - | - |
| Alaska | 1 | 3 | 21 | 11 | 15 | - | 0 | 4 | 2 | 4 | N | 0 | 0 | N | N |
| California | - | 8 | 23 | - | 14 | - | 3 | 12 | 7 | 3 | - | 0 | 1 | - | - |
| Hawaii | 1 | 0 | 2 | 2 | 2 | - | 0 | 0 | - |  | N | 0 | 0 | N | N |
| Oregon ${ }^{\dagger}$ | 11 | 3 | 10 | 18 | 13 | - | 0 | 2 | - | - | N | 0 | 1 | N | N |
| Washington | 2 | 5 | 74 | 8 | 12 | - | 0 | 0 | - | - | N | 0 | 0 | N | N |
| American Samoa | - | 0 | 0 | - | - | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| C.N.M.I. | - | - | 0 | - | - | - | 0 | 0 | - | - | N | - | - | - | - |
| Guam | - | 0 | 0 | - | - | - | 0 | 0 | - | - | N | 0 | 0 | N | N |
| Puerto Rico | - | 0 | 0 | - | - | - | 1 | 5 | 1 | 4 | N | 0 | 0 | N | N |
| U.S. Virgin Islands | - | 0 | 0 | - | - | N | 0 | 0 | N | N | N | 0 | 0 | N | N |

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.
† Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 14, 2009, and February 9, 2008 (6th week)*

| Reporting area | Salmonellosis |  |  |  |  | Shiga toxin-producing E. coli (STEC) ${ }^{\dagger}$ |  |  |  |  | Shigellosis |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 299 | 910 | 1,486 | 2,793 | 3,469 | 32 | 84 | 251 | 201 | 262 | 151 | 432 | 611 | 1,405 | 1,563 |
| New England | - | 17 | 63 | 73 | 621 | - | 3 | 14 | 4 | 58 | - | 2 | 7 | 3 | 54 |
| Connecticut | - | 0 | 35 | 35 | 484 | - | 0 | 3 | 3 | 44 | - | 0 | 2 | 2 | 38 |
| Maine§ | - | 3 | 8 | 10 | 14 | - | 0 | 3 | - | 2 | - | 0 | 6 | - | - |
| Massachusetts | - | 10 | 52 | - | 93 | - | 0 | 11 | - | 8 | - | 1 | 5 | - | 11 |
| New Hampshire | - | 2 | 10 | 13 | 11 | - | 1 | 3 | 1 | 2 | - | 0 | 1 | 1 | 1 |
| Rhode Island ${ }^{\text {§ }}$ | - | 2 | 9 | 10 | 12 | - | 0 | 3 | - | - | - | 0 | 1 | - | 3 |
| Vermont§ | - | 1 | 7 | 5 | 7 | - | 0 | 3 | - | 2 | - | 0 | 2 | - | 1 |
| Mid. Atlantic | 27 | 90 | 177 | 261 | 392 | 2 | 6 | 192 | 12 | 23 | 6 | 45 | 96 | 164 | 121 |
| New Jersey | - | 11 | 30 | 2 | 86 | - | 0 | 3 | 1 | 5 |  | 14 | 38 | 57 | 41 |
| New York (Upstate) | 18 | 26 | 60 | 85 | 73 | 2 | 3 | 188 | 9 | 7 | 3 | 11 | 35 | 10 | 19 |
| New York City | 1 | 19 | 53 | 63 | 113 | - | 1 | 5 | 1 | 7 | - | 13 | 35 | 39 | 45 |
| Pennsylvania | 8 | 28 | 78 | 111 | 120 | - | 1 | 8 | 1 | 4 | 3 | 5 | 23 | 58 | 16 |
| E.N. Central | 26 | 93 | 194 | 323 | 386 | 2 | 11 | 75 | 24 | 31 | 48 | 80 | 123 | 352 | 374 |
| Illinois | - | 25 | 72 | 24 | 121 | - | 1 | 10 | - | 2 | - | 17 | 35 | 20 | 137 |
| Indiana | - | 9 | 53 | 15 | 19 | - | 1 | 14 | 3 | 2 | - | 10 | 39 | 6 | 100 |
| Michigan | $\bar{\square}$ | 17 | 38 | 76 | 84 | 2 | 2 | 43 | 9 | 9 | 2 | 4 | 22 | 33 | 10 |
| Ohio | 26 | 27 | 65 | 175 | 100 | - | 3 | 17 | 9 | 4 | 41 | 42 | 80 | 261 | 81 |
| Wisconsin | - | 14 | 50 | 33 | 62 | - | 3 | 20 | 3 | 14 | 5 | 7 | 33 | 32 | 46 |
| W.N. Central | 18 | 49 | 151 | 162 | 168 | 2 | 12 | 60 | 26 | 21 | 8 | 16 | 40 | 55 | 87 |
| lowa |  | 8 | 16 | 14 | 35 |  | 2 | 21 | 6 | 5 | 2 | 4 | 12 | 23 | 5 |
| Kansas | 9 | 7 | 31 | 25 | 18 | - | 1 | 7 | 1 | 2 | 3 | 1 | 5 | 14 | 2 |
| Minnesota | 5 | 13 | 70 | 44 | 34 | 1 | 3 | 21 | 7 | 5 | - | 5 | 25 | 7 | 5 |
| Missouri | 2 | 14 | 48 | 52 | 51 | 1 | 2 | 11 | 8 | 7 | 2 | 3 | 14 | 7 | 43 |
| Nebraska§ | 2 | 4 | 13 | 16 | 18 | - | 2 | 30 | 4 | 2 | 1 | 0 | 3 | 3 |  |
| North Dakota | - | 0 | 7 | - | 2 | - | 0 | 1 | - | - | - | 0 | 4 | - | 9 |
| South Dakota | - | 2 | 9 | 11 | 10 | - | 1 | 4 | - | - | - | 0 | 9 | 1 | 23 |
| S. Atlantic | 104 | 246 | 456 | 932 | 875 | 5 | 13 | 49 | 57 | 43 | 27 | 58 | 100 | 234 | 350 |
| Delaware | , | 2 | 9 | 1 | 8 | 5 | 0 | 2 | 1 |  |  | 0 | 1 | 3 |  |
| District of Columbia | - | 1 | 4 | - | 8 | - | 0 | 1 | - | 1 | - | 0 | 3 | - | 2 |
| Florida | 69 | 97 | 174 | 426 | 462 | 2 | 2 | 11 | 21 | 16 | 9 | 14 | 34 | 72 | 135 |
| Georgia | 19 | 43 | 86 | 171 | 90 | - | 1 | 7 | 6 | 1 | 10 | 19 | 48 | 67 | 134 |
| Maryland§ | 2 | 13 | 36 | 55 | 62 | - | 2 | 9 | 9 | 7 | 2 | 2 | 8 | 23 | 7 |
| North Carolina | 7 | 23 | 106 | 165 | 78 | 2 | 1 | 19 | 16 | 6 | 3 | 3 | 27 | 38 | 12 |
| South Carolina§ | 5 | 18 | 55 | 64 | 78 | - | 1 | 4 | 1 | 4 | 3 | 8 | 32 | 13 | 51 |
| Virginia§ | 2 | 19 | 68 | 43 | 59 | - | 3 | 25 | 2 | 2 | - | 4 | 50 | 17 | 9 |
| West Virginia | - | 3 | 6 | 7 | 30 | 1 | 0 | 3 | 1 | 6 | - | 0 | 3 | 1 | - |
| E.S. Central | 6 | 58 | 138 | 157 | 221 | 2 | 5 | 21 | 10 | 21 | 8 | 34 | 67 | 70 | 230 |
| Alabama§ | - | 15 | 46 | 27 | 78 | 1 | 1 | 17 | 1 | 5 |  | 6 | 18 | 8 | 62 |
| Kentucky | 4 | 10 | 18 | 42 | 37 | 1 | 1 | 7 | 3 | 5 | - | 3 | 24 | 7 | 31 |
| Mississippi | - | 14 | 57 | 37 | 46 | 1 | 0 | 2 | 1 | 1 | - | 4 | 18 | 5 | 79 |
| Tennessee§ | 2 | 14 | 60 | 51 | 60 | - | 2 | 7 | 5 | 10 | 8 | 19 | 47 | 50 | 58 |
| W.S. Central | 20 | 136 | 324 | 169 | 176 | - | 7 | 27 | 1 | 20 | 14 | 98 | 222 | 300 | 153 |
| Arkansas§ | 1 | 11 | 40 | 32 | 22 | - | 1 | 3 | - | 1 | - | 11 | 27 | 16 | 7 |
| Louisiana | 3 | 17 | 50 | 29 | 48 | - | 0 | 1 | - | 1 | 5 | 11 | 26 | 26 | 32 |
| Oklahoma | 8 | 15 | 36 | 27 | 22 | - | 1 | 19 | 1 | 1 | 1 | 3 | 43 | 17 | 11 |
| Texas§ | 8 | 92 | 264 | 81 | 84 | - | 5 | 12 | - | 17 | 8 | 65 | 195 | 241 | 103 |
| Mountain | 16 | 59 | 110 | 202 | 249 | 15 | 10 | 39 | 36 | 35 | 17 | 22 | 53 | 115 | 84 |
| Arizona | 5 | 20 | 45 | 77 | 78 | - | 1 | 5 | 5 | 3 | 14 | 13 | 34 | 78 | 38 |
| Colorado | 8 | 12 | 43 | 40 | 54 | 14 | 3 | 18 | 24 | 7 | 3 | 2 | 11 | 14 | 16 |
| Idaho§ | 1 | 3 | 14 | 17 | 11 | 1 | 2 | 15 | 2 | 14 | - | 0 | 2 | - | 1 |
| Montana§ | - | 2 | 8 | 9 | 4 | - | 0 | 3 | - | 4 | - | 0 | 1 | - | - |
| Nevada§ | - | 3 | 9 | 24 | 25 | - | 0 | 2 | 1 | 2 | - | 4 | 13 | 14 | 18 |
| New Mexico§ | - | 6 | 33 | 4 | 36 | - | 1 | 6 | 1 | 4 | - | 2 | 11 | 8 | 6 |
| Utah | 2 | 6 | 19 | 29 | 31 | - | 1 | 9 | 2 | 1 | - | 1 | 3 | 1 | 2 |
| Wyoming§ | - | 1 | 4 | 2 | 10 | - | 0 | 1 | 1 | - | - | 0 | 1 | - | 3 |
| Pacific | 82 | 112 | 530 | 514 | 381 | 4 | 9 | 58 | 31 | 10 | 23 | 29 | 82 | 112 | 110 |
| Alaska | $\overline{71}$ | 1 | 4 | 6 | 4 | - | 0 | 1 | - | - |  | 0 | 1 | 1 | 110 |
| California | 71 | 80 | 516 | 410 | 311 | 3 | 6 | 38 | 26 | 9 | 15 | 25 | 74 | 94 | 97 |
| Hawaii | 2 | 5 | 15 | 34 | 27 | - | 0 | 2 | 1 | 1 | - | 1 | 3 | 1 | 5 |
| Oregon§ | 1 | 7 | 20 | 27 | 31 | - | 1 | 8 | - | - | - | 1 | 10 | 7 | 7 |
| Washington | 8 | 12 | 150 | 37 | 8 | 1 | 2 | 42 | 4 | - | 8 | 1 | 26 | 9 | 1 |
| American Samoa | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - | - | 0 | 1 | 1 | 1 |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 2 | - | 1 | - | 0 | 0 | - | - | - | 0 | 3 | - | 1 |
| Puerto Rico | 3 | 9 | 29 | 21 | 67 | - | 0 | 1 | - | - | - | 0 | 4 | - | 2 |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.
$\dagger$ Includes E. coli O157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped.
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 14, 2009, and February 9, 2008 (6th week)*

| Reporting area | Streptococcal diseases, invasive, group A |  |  |  |  | Streptococcus pneumoniae, invasive disease, nondrug resistant ${ }^{\dagger}$ Age <5 years |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  Previous <br> 52 weeks <br> Current  |  |  | $\begin{aligned} & \text { Cum } \\ & 2009 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \\ & \hline \end{aligned}$ |
|  | week | Med | Max |  |  |  | Med | Max |  |  |
| United States | 70 | 88 | 182 | 518 | 672 | 30 | 33 | 53 | 162 | 263 |
| New England | 11 | 4 | 31 | 18 | 34 | - | 1 | 11 | 3 | 19 |
| Connecticut | 11 | 0 | 26 | 11 | - | - | 0 | 11 |  | - |
| Maine§ | - | 0 | 3 | 1 | 2 | - | 0 | 1 | - | 1 |
| Massachusetts | - |  | 8 | - | 28 | - | 0 | 3 | - | 15 |
| New Hampshire | - | 0 | 2 | 2 | 3 | - | 0 | 1 | 2 | 3 |
| Rhode Island§ | - | 0 | 8 | 1 | - | - | 0 | 2 | - | - |
| Vermont ${ }^{\text {® }}$ | - | 0 | 3 | 3 | 1 | - | 0 | 1 | 1 | - |
| Mid. Atlantic | 17 | 16 | 43 | 92 | 139 | 5 | 3 | 18 | 13 | 40 |
| New Jersey | - | 2 | 11 | - | 29 | - | 1 | 4 | 2 | 10 |
| New York (Upstate) | 9 | 6 | 21 | 37 | 39 | 5 | 2 | 18 | 11 | 13 |
| New York City | - | 3 | 10 | 11 | 29 | - | 0 | 5 | - | 17 |
| Pennsylvania | 8 | 7 | 16 | 44 | 42 | N | 0 | 2 | N | N |
| E.N. Central | 12 | 16 | 42 | 101 | 138 | 4 | 6 | 11 | 25 | 54 |
| Illinois | - | 4 | 16 | 19 | 37 | - | 1 | 5 | - | 17 |
| Indiana | - | 2 | 19 | 9 | 15 | - | 0 | 5 | 2 | 2 |
| Michigan | 2 | 3 | 9 | 18 | 32 | 1 | 1 | 5 | 5 | 14 |
| Ohio | 10 | 5 | 14 | 47 | 38 | 2 | 1 | 4 | 15 | 11 |
| Wisconsin | - | 1 | 10 | 8 | 16 | 1 | 0 | 2 | 3 | 10 |
| W.N. Central | 6 | 5 | 39 | 30 | 28 | 1 | 2 | 11 | 13 | 20 |
| lowa | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Kansas | 1 | 0 | 5 | 7 | 8 | - | 0 | 3 | 2 | 2 |
| Minnesota | - | 0 | 35 | - | - | - | 0 | 9 | 3 | 6 |
| Missouri | 4 | 2 | 10 | 12 | 14 | - | 1 | 2 | 6 | 9 |
| Nebraska§ | - | 1 | 3 | 8 | 4 | 1 | 0 | 1 | 1 | 2 |
| North Dakota | - | 0 | 3 | - | - | - | 0 | 2 | - |  |
| South Dakota | 1 | 0 | 2 | 3 | 2 | - | 0 | 1 | 1 | 1 |
| S. Atlantic | 13 | 21 | 36 | 142 | 155 | 10 | 6 | 16 | 50 | 46 |
| Delaware | 1 | 0 | 1 | 5 | 2 | - | 0 | 0 | - | - |
| District of Columbia | - | 0 | 4 | - | 2 | - | 0 | 1 | - | - |
| Florida | 5 | 5 | 10 | 34 | 40 | 4 | 1 | 4 | 13 | 4 |
| Georgia | 1 | 5 | 14 | 37 | 38 | 4 | 1 | 6 | 18 | 13 |
| Maryland§ | 4 | 3 | 9 | 25 | 32 | 2 | 1 | 4 | 9 | 14 |
| North Carolina | 2 | 2 | 10 | 13 | 9 | N | 0 | 0 | N | N |
| South Carolina§ | - | 1 | 5 | 11 | 10 | - | 1 | 6 | 8 | 9 |
| Virginia§ | - | 3 | 9 | 13 | 17 | - | 0 | 6 | - | 6 |
| West Virginia | - | 0 | 3 | 4 | 5 | - | 0 | 2 | 2 | - |
| E.S. Central | 2 | 3 | 9 | 23 | 18 | - | 2 | 6 | 1 | 10 |
| Alabama§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Kentucky | - | 1 | 3 | 5 | 4 | N | 0 | 0 | N | N |
| Mississippi | N | 0 | 0 | N | N | - | 0 | 3 | - | 3 |
| Tennessee§ | 2 | 3 | 6 | 18 | 14 | - | 1 | 5 | 1 | 7 |
| W.S. Central | 4 | 9 | 50 | 50 | 39 | 6 | 5 | 28 | 27 | 23 |
| Arkansas ${ }^{\text {§ }}$ | - | 0 | 2 | - | - | 2 | 0 | 3 | 6 | 3 |
| Louisiana | , | 0 | 2 | 3 | 4 | - | 0 | 3 | 5 | 1 |
| Oklahoma | 3 | 2 | 13 | 25 | 13 | 3 | 1 | 7 | 6 | 8 |
| Texas§ | 1 | 6 | 37 | 22 | 22 | 1 | 3 | 19 | 10 | 11 |
| Mountain | 4 | 9 | 21 | 48 | 103 | 4 | 4 | 11 | 29 | 46 |
| Arizona | 2 | 3 | 8 | 16 | 30 | 4 | 2 | 9 | 21 | 27 |
| Colorado | 2 | 2 | 10 | 20 | 30 | - | 1 | 4 | 5 | 9 |
| Idaho§ | - | 0 | 2 | - | 3 | - | 0 | 1 | - | 1 |
| Montana§ | N | 0 | 0 | N | N | - | 0 | 1 | - | - |
| Nevada§ | N | 0 | 1 | - | 2 | N | 0 | 0 | N | N |
| New Mexico§ | - | 1 | 8 | 10 | 26 | - | 0 | 3 | 2 | 4 |
| Utah | - | 1 | 4 | 1 | 12 | - | 0 | 4 | 1 | 5 |
| Wyoming§ | - | 0 | 2 | 1 | - | - | 0 | 1 | - |  |
| Pacific | 1 | 3 | 8 | 14 | 18 | - | 0 | 2 | 1 | 5 |
| Alaska | - | 1 | 4 | 2 | 3 | N | 0 | 0 | N | N |
| California | - | 0 | 0 | - | - | N | 0 | 0 | N | N |
| Hawaii | 1 | 2 | 8 | 12 | 15 | - | 0 | 2 | 1 | 5 |
| Oregon§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Washington | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| American Samoa | - | 0 | 12 | - | - | N | 0 | 0 | N | N |
| C.N.M.I. | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Guam | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| U.S. Virgin Islands | - | 0 | 0 | - | - | N | 0 | 0 | N | N |

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.
$\dagger$ Includes cases of invasive pneumococcal disease, in children aged $<5$ years, caused by S. pneumoniae, which is susceptible or for which susceptibility testing is not available (NNDSS event code 11717).
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II．（Continued）Provisional cases of selected notifiable diseases，United States，weeks ending February 14，2009，and February 9， 2008 （6th week）＊

| Reporting area | Streptococcus pneumoniae，invasive disease，drug resistant ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  | Syphilis，primary and secondary |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Currentweek | All ages |  |  |  | Aged＜5 years |  |  |  |  |  |  |  |  |  |
|  |  | Previous52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2000 \end{aligned}$ | Current | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 59 | 52 | 105 | 362 | 491 | 13 | 8 | 23 | 43 | 51 | 66 | 242 | 433 | 1，008 | 1，292 |
| New England | － | 1 | 48 | 3 | 9 | － | 0 | 5 | － | 1 | 10 | 5 | 14 | 39 | 27 |
| Connecticut |  | 0 | 48 | － |  | － | 0 | 5 |  |  | 2 | 0 | 4 | 6 |  |
| Maine ${ }^{\text {8 }}$ | － | 0 | 2 | － | 2 | － | 0 | 1 | － | － | 1 | 0 | 2 | 1 | － |
| Massachusetts | － | 0 | 0 | － | － | － | 0 | 0 | － | － | 7 | 4 | 11 | 28 | 24 |
| New Hampshire | － | 0 | 0 | － |  | － | 0 | 0 | － | － | － | 0 | 2 | 4 | 1 |
| Rhode Island ${ }^{\text {® }}$ |  | 0 | 2 | － | 3 |  | 0 | 1 | － | － | － | 0 | 5 |  | 2 |
| Vermont ${ }^{\text {S }}$ | － | 0 | 2 | 3 | 4 | － | 0 | 1 | － | 1 | － | 0 | 2 | － |  |
| Mid．Atlantic | － | 4 | 13 | 11 | 41 | － | 0 | 2 | 1 | 2 | 6 | 33 | 52 | 173 | 200 |
| New Jersey |  | 0 | 0 |  |  |  | 0 | 0 |  |  | 3 | 4 | 10 | 19 | 33 |
| New York（Upstate） | － | 1 | 6 | 3 | 6 | － | 0 | 1 | 1 | － | 3 | 2 | 7 | 7 | 6 |
| New York City | － | 1 | 5 | － | 15 | － | 0 | 0 | － | － | － | 21 | 36 | 124 | 120 |
| Pennsylvania | － | 1 | 9 | 8 | 20 | － | 0 | 2 | － | 2 | － | 5 | 12 | 23 | 41 |
| E．N．Central | 14 | 11 | 41 | 63 | 128 | 3 | 2 | 7 | 8 | 18 | 16 | 16 | 239 | 116 | 91 |
| Illinois | － | 0 | 7 | － | 44 | － | 0 | 2 | － | 9 | － | 1 | 230 | 18 | 21 |
| Indiana | － | 2 | 31 | － | 20 | － | 0 | 5 | － | 1 | 5 | 3 | 10 | 17 | 12 |
| Michigan |  | 0 | 3 | 3 | 4 | － | 0 | 1 | － | 1 | 6 | 3 | 18 | 31 | 13 |
| Ohio | 14 | 7 | 18 | 60 | 60 | 3 | 1 | 4 | 8 | 7 | 5 | 6 | 14 | 45 | 39 |
| Wisconsin | － | 0 | 0 | － | － | － | 0 | 0 | － | － | － | 1 | 3 | 5 |  |
| W．N．Central | 1 | 2 | 9 | 10 | 40 | 1 | 0 | 2 | 4 | 1 | － | 7 | 14 | 28 | 55 |
|  | － | 0 | 0 |  |  | － | 0 | 0 |  |  | － | 0 | 2 |  |  |
| Kansas | 1 | 1 | 5 | 3 | 16 | 1 | 0 | 1 | 3 | 1 | － | 0 | 5 | 1 |  |
| Minnesota | － | 0 | 0 | 7 |  | － | 0 | 0 |  | － | － | 2 | 6 | 6 | 14 |
| Missouri | － | 1 | 4 | 7 | 24 | － | 0 | 1 | 1 | － | － | 4 | 10 | 19 | 40 |
| Nebraska§ | － | 0 | 0 |  |  | － | 0 | 0 |  |  | － | 0 | 2 | 2 | 1 |
| North Dakota | － | 0 | 0 | － | － | － | 0 | 0 | － | － | － | 0 | 0 | － | － |
| South Dakota | － | 0 | 1 | － | － | － | 0 | 1 | － | － | － | 0 | 1 | － | － |
| S．Atlantic | 41 | 22 | 53 | 228 | 190 | 8 | 4 | 14 | 23 | 19 | 19 | 55 | 139 | 236 | 200 |
| Delaware | 1 | 0 | 1 | 2 |  | － | 0 | 0 |  | － | － | 0 | 4 | 6 |  |
| District of Columbia |  | 0 | 3 |  | 4 | － | 0 | 1 |  |  | － | 2 | 9 | 24 | 14 |
| Florida | 31 | 14 | 30 | 141 | 114 | 6 | 2 | 13 | 13 | 15 | － | 19 | 37 | 82 | 89 |
| Georgia | 9 | 7 | 23 | 72 | 62 | 2 | 1 | 5 | 10 | 3 | 5 | 13 | 117 | 20 | 6 |
| Maryland§ | － | 0 | 2 | 1 | 2 | － | 0 | 0 |  | 1 |  | 7 | 14 | 10 | 23 |
| North Carolina | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 14 | 5 | 19 | 64 | 30 |
| South Carolina§ | － | 0 | 0 | － | － | － | 0 | 0 | N |  | － | 2 | 6 | 9 | 14 |
| Virginia§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | － | 5 | 16 | 21 | 24 |
| West Virginia | － | 1 | 9 | 12 | 8 | － | 0 | 2 | － | － | － | 0 | 1 | － | － |
| E．S．Central | 2 | 5 | 20 | 30 | 56 | － |  | 4 | 4 | 3 | 6 | 21 | 37 | 107 | 120 |
| Alabama ${ }^{\text {8 }}$ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | － | 8 | 17 | 31 | 56 |
| Kentucky | 2 | 1 | 6 | 14 | 10 | － | 0 | 2 | 3 | 1 | 1 | 1 | 10 | 8 | ${ }^{7}$ |
| Mississippi |  | 0 | 2 |  |  |  | 0 | 1 | － | － | － | 3 | 18 | 15 | 13 |
| Tennessee§ | － | 3 | 18 | 16 | 46 | － | 0 | 3 | 1 | 2 | 5 | 8 | 19 | 53 | 44 |
| W．S．Central | 1 | 2 |  | 11 |  | 1 |  | 2 |  | 3 | 3 | 43 | 75 | 149 | 220 |
| Arkansas8 | － | 0 | 4 | 6 | 1 | － | 0 | 1 | 1 | － | － | 3 | 35 | 30 | 8 |
| Louisiana | 1 | 1 | 6 | 5 | 14 | 1 | 0 | 1 | 1 | 3 | 3 | 10 | 33 | 12 | 46 |
| Oklahoma | N | 0 | 0 | N | N | N | 0 | 0 | N | N | － | 1 | 7 | 4 | 17 |
| Texas ${ }^{\text {8 }}$ |  | 0 | 0 | － | － |  | 0 | 0 |  | － | － | 26 | 46 | 103 | 149 |
| Mountain | － | 1 | 11 | 4 | 11 | － | 0 | 4 | 1 | 3 | 3 | 9 | 25 | 16 | 67 |
| Arizona | － | 0 | 0 | － |  | － | 0 | 0 | － | － | － | 4 | 13 | 2 | 32 |
| Colorado |  | 0 | 0 | － |  |  | 0 | 0 |  |  | － | 1 | 5 | 2 | 15 |
| Idahos | N | 0 | 1 | N | N | N | 0 | 1 | N | N | － | 0 | 2 | － | － |
| Montana§ |  | 0 | 1 | N | N | N | 0 | 0 |  |  |  | 0 | 7 |  |  |
| Nevadas | N | 0 | 1 | N | N | N | 0 | 0 | N | N | 3 | 1 | 6 | 10 | 15 |
| New Mexicos | － | 0 | 1 | － |  |  | 0 | 0 |  |  | － |  | 4 | 2 | 5 |
| Utah | － | 1 | 10 | 1 | 11 | － | 0 | 4 | 1 | 3 | － | 0 | 18 | － | － |
| Wyoming ${ }^{\text {§ }}$ | － | 0 | 2 | 3 | － | － | 0 | 0 | － | － | － | 0 | 1 | － | － |
| Pacific |  |  | 1 |  |  |  | 0 | 1 |  | 1 | 3 | 44 | 73 | 144 | 312 |
| Alaska | N | 0 | 0 | N | N | N | 0 | 0 | N | N | － | 0 | 1 |  |  |
| California | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 1 | 40 | 67 | 129 | 274 |
| Hawaii | － | 0 | 1 | 2 | 1 | － | 0 | 1 | － | 1 | － | 0 | 3 | 4 | 4 |
| Oregon§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | － | 0 | 3 | 3 | 2 |
| Washington | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 2 | 3 | 9 | 8 | 32 |
| American Samoa | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 二 | 0 | 0 | 二 | 二 |
| Puerto Rico | － | 0 | 0 | － | － | － | 0 | 0 | － | － | 6 | 3 | 11 | 18 | 11 |
| U．S．Virgin Islands | － | 0 | 0 | － | － | － | 0 | 0 | － | － | － | 0 | 0 | － | － |

C．N．M．I．：Commonwealth of Northern Mariana Islands．
U：Unavailable．－：No reported cases．N：Not notifiable．Cum：Cumulative year－to－date counts．Med：Median．Max：Maximum．
＊Incidence data for reporting year 2008 and 2009 are provisional．
$\dagger$ Includes cases of invasive pneumococcal disease caused by drug－resistant S．pneumoniae（DRSP）（NNDSS event code 11720）．
§ Contains data reported through the National Electronic Disease Surveillance System（NEDSS）．

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending February 14, 2009, and February 9, 2008 (6th week)*

| Reporting area | Varicella (chickenpox) |  |  |  |  | West Nile virus disease ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Neuroinvasive |  |  |  |  | Nonneuroinvasive§ |  |  |  |  |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2009 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2008 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 313 | 484 | 1,011 | 2,113 | 3,271 | - | 1 | 75 | - | 1 | - | 1 | 74 | - | 1 |
| New England | 1 | 10 | 22 | 38 | 88 | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| Connecticut | - | 0 | 0 | - | - | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| Maine ${ }^{\text {l }}$ | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Massachusetts | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| New Hampshire | - | 4 | 10 | 22 | 51 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Rhode Island ${ }^{\text {l }}$ | - | 0 | 0 | - | - | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Vermont¹ | 1 | 4 | 17 | 16 | 37 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Mid. Atlantic | 32 | 41 | 81 | 221 | 338 | - | 0 | 8 | - | - | - | 0 | 4 | - | - |
| New Jersey | N | 0 | 0 | N | N | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| New York (Upstate) | N | 0 | 0 | N | N | - | 0 | 5 | - | - | - | 0 | 2 | - | - |
| New York City | N | 0 | 0 | N | N | - | 0 | 2 | - | - | - | 0 | 2 | - | - |
| Pennsylvania | 32 | 41 | 81 | 221 | 338 | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| E.N. Central | 123 | 143 | 312 | 856 | 901 | - | 0 | 8 | - | - | - | 0 | 3 | - | - |
| Illinois | - | 32 | 67 | 164 | 23 | - | 0 | 4 | - | - | - | 0 | 2 | - | - |
| Indiana | - | 0 | 0 | - | - | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Michigan | 31 | 57 | 116 | 268 | 445 | - | 0 | 4 | - | - | - | 0 | 2 | - | - |
| Ohio | 89 | 46 | 106 | 397 | 429 | - | 0 | 3 | - | - | - | 0 | 1 | - | - |
| Wisconsin | 3 | 5 | 50 | 27 | 4 | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| W.N. Central | 26 | 19 | 71 | 134 | 192 | - | 0 | 6 | - | 1 | - | 0 | 21 | - | - |
| Iowa | N | 0 | 0 | N | N | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| Kansas | 15 | 5 | 40 | 29 | 76 | - | 0 | 2 | - | 1 | - | 0 | 3 | - | - |
| Minnesota | - | 0 | 0 | - | - | - | 0 | 2 | - | - | - | 0 | 4 | - | - |
| Missouri | 11 | 9 | 51 | 105 | 108 | - | 0 | 3 | - | - | - | 0 | 1 | - | - |
| Nebraskaf | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 8 | - | - |
| North Dakota | - | 0 | 39 | - | 1 | - | 0 | 2 | - | - | - | 0 | 11 | - | - |
| South Dakota | - | 0 | 5 | - | 7 | - | 0 | 5 | - | - | - | 0 | 6 | - | - |
| S. Atlantic | 35 | 78 | 173 | 206 | 643 | - | 0 | 3 | - | - | - | 0 | 3 | - | - |
| Delaware | - | 1 | 5 | 1 | 2 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| District of Columbia | - | 0 | 3 | - | 4 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Florida | 34 | 29 | 87 | 170 | 142 | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Georgia | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Maryland ${ }^{\text {d }}$ | N | 0 | 0 | N | N | - | 0 | 2 | - | - | - | 0 | 2 | - | - |
| North Carolina | N | 0 | 0 | N | N | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| South Carolinaf | - | 12 | 67 | 1 | 90 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Virginial | - | 19 | 60 | - | 279 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| West Virginia | 1 | 11 | 33 | 34 | 126 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| E.S. Central | - | 15 | 101 | 16 | 121 | - | 0 | 7 | - | - | - | 0 | 8 | - | 1 |
| Alabamal | - | 15 | 101 | 16 | 120 | - | 0 | 3 | - | - | - | 0 | 3 | - | - |
| Kentucky | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Mississippi | - | 0 | 2 | - | 1 | - | 0 | 4 | - | - | - | 0 | 7 | - | - |
| Tennesseell | N | 0 | 0 | N | N | - | 0 | 2 | - | - | - | 0 | 3 | - | 1 |
| W.S. Central | 67 | 104 | 435 | 433 | 709 | - | 0 | 8 | - | - | - | 0 | 7 | - | - |
| Arkansasๆ | - | 7 | 59 | 6 | 73 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Louisiana | - | 1 | 10 | 6 | 10 | - | 0 | 3 | - | - | - | 0 | 5 | - | - |
| Oklahoma | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Texas ${ }^{\text {a }}$ | 67 | 99 | 422 | 421 | 626 | - | 0 | 6 | - | - | - | 0 | 4 | - | - |
| Mountain | 28 | 37 | 90 | 187 | 268 | - | 0 | 12 | - | - | - | 0 | 22 | - | - |
| Arizona | - | 0 | 0 | - | - | - | 0 | 10 | - | - | - | 0 | 8 | - | - |
| Colorado | 26 | 14 | 44 | 70 | 120 | - | 0 | 4 | - | - | - | 0 | 10 | - | - |
| Idahof | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 6 | - | - |
| Montanaf | - | 6 | 27 | 56 | 30 | - | 0 | 0 | - | - | - | 0 | 2 | - | - |
| Nevadal ${ }^{\text {a }}$ | N | 0 | 0 | N | N | - | 0 | 2 | - | - | - | 0 | 3 | - | - |
| New Mexicol | - | 3 | 18 | 19 | 37 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Utah | 2 | 11 | 55 | 42 | 79 | - | 0 | 2 | - | - | - | 0 | 5 | - | - |
| Wyoming ${ }^{\text {f }}$ | - | 0 | 4 | - | 2 | - | 0 | 0 | - | - | - | 0 | 2 | - | - |
| Pacific | 1 | 3 | 8 | 22 | 11 | - | 0 | 38 | - | - | - | 0 | 23 | - | - |
| Alaska | 1 | 2 | 6 | 19 | 1 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| California | - | 0 | 0 | - | - | - | 0 | 37 | - | - | - | 0 | 20 | - | - |
| Hawaii | - | 1 | 5 | 3 | 10 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Oregon ${ }^{\text {l }}$ | N | 0 | 0 | N | N | - | 0 | 2 | - | - | - | 0 | 4 | - | - |
| Washington | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| American Samoa | N | 0 | 0 | N | N | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | - |
| Guam | - | 2 | 17 | - | 4 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | 3 | 6 | 20 | 13 | 61 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.
$\dagger$ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.
§ Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and
influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
${ }^{1}$ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE III. Deaths in 122 U.S. cities,* week ending February 14, 2009 (6th week)

| Reporting area | All causes, by age (years) |  |  |  |  |  | P\& ${ }^{\dagger}$ <br> Total | Reporting area | All causes, by age (years) |  |  |  |  |  | P\& ${ }^{\dagger}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| New England | 489 | 345 | 106 | 23 | 5 | 10 | 59 | S. Atlantic | 1,517 | 984 | 363 | 99 | 35 | 35 | 95 |
| Boston, MA | 152 | 95 | 37 | 12 | 3 | 5 | 18 | Atlanta, GA | 160 | 102 | 37 | 17 | 1 | 3 | 11 |
| Bridgeport, CT | 29 | 24 | 4 | 1 | - | - | 8 | Baltimore, MD | 204 | 134 | 46 | 13 | 7 | 4 | 22 |
| Cambridge, MA | 23 | 18 | 5 | - | - | - | - | Charlotte, NC | 126 | 82 | 32 | 6 | 3 | 3 | 12 |
| Fall River, MA | 31 | 22 | 9 | - | - | - | 1 | Jacksonville, FL | 182 | 116 | 50 | 12 | 2 | 2 | 10 |
| Hartford, CT | 67 | 49 | 14 | 2 | - | 2 | 3 | Miami, FL | 98 | 61 | 28 | 3 | 4 | 1 | 9 |
| Lowell, MA | 28 | 22 | 5 | 1 | - | - | 5 | Norfolk, VA | 73 | 41 | 20 | 4 | 3 | 5 | 5 |
| Lynn, MA | 8 | 5 | 3 | - | - | - | 1 | Richmond, VA | 90 | 56 | 21 | 5 | 5 | 3 | 3 |
| New Bedford, MA | 31 | 24 | 6 | 1 | - | - | 5 | Savannah, GA | 90 | 57 | 23 | 6 | 1 | 3 | 5 |
| New Haven, CT | U | U | U | U | U | U | U | St. Petersburg, FL | 51 | 39 | 6 | 3 | 3 | - | 1 |
| Providence, RI | U | U | U | U | U | U | U | Tampa, FL | 225 | 160 | 49 | 11 | - | 5 | 9 |
| Somerville, MA | 3 | 2 | 1 | - | - | - | 1 | Washington, D.C. | 199 | 123 | 47 | 17 | 6 | 6 | 3 |
| Springfield, MA | 36 | 18 | 11 | 2 | 2 | 3 | 3 | Wilmington, DE | 19 | 13 | 4 | 2 | - | - | 5 |
| Waterbury, CT | 28 | 23 | 3 | 2 | - | - | 3 | E.S. Central | 784 | 523 | 176 | 47 | 14 | 24 | 70 |
| Worcester, MA | 53 | 43 | 8 | 2 | - | - | 11 | Birmingham, AL | 180 | 114 | 36 | 13 | 2 | 15 | 15 |
| Mid. Atlantic | 2,363 | 1,643 | 516 | 125 | 28 | 49 | 134 | Chattanooga, TN | 81 | 59 | 14 | 5 | 1 | 2 | 2 |
| Albany, NY | 52 | 36 | 9 | 5 | - | 2 | 3 | Knoxville, TN | 103 | 62 | 29 | 6 | 4 | 2 | 12 |
| Allentown, PA | 33 | 25 | 4 | 2 | 1 | 1 | 1 | Lexington, KY | 68 | 41 | 22 | 4 | 1 | - | 7 |
| Buffalo, NY | 74 | 49 | 14 | 6 | - | 5 | 5 | Memphis, TN | 168 | 117 | 37 | 8 | 3 | 3 | 16 |
| Camden, NJ | 9 | 6 | 3 | - | - | - | - | Mobile, AL | 105 | 75 | 21 | 5 | 3 | 1 | 7 |
| Elizabeth, NJ | 19 | 11 | 6 | 2 | - | - | 1 | Montgomery, AL | 79 | 55 | 17 | 6 | - | 1 | 11 |
| Erie, PA | 46 | 36 | 8 | 1 | - | 1 | 1 | Nashville, TN | U | U | U | U | U | U | U |
| Jersey City, NJ | U | U | U | U | U | U | U | W.S. Central | 1,571 | 1,003 | 392 | 111 | 30 | 35 | 85 |
| New York City, NY | 1,120 | 789 | 248 | 38 | 20 | 23 | 53 | Austin, TX | 94 | 60 | 27 | 6 | 1 | - | 3 |
| Newark, NJ | 26 | 7 | 12 | 5 | - | 2 | 2 | Baton Rouge, LA | 67 | 54 | 10 | 3 | - | - | - |
| Paterson, NJ | U | U | U | U | U | U | U | Corpus Christi, TX | 60 | 41 | 14 | 4 | - | 1 | 2 |
| Philadelphia, PA | 518 | 333 | 133 | 38 | 5 | 9 | 26 | Dallas, TX | 256 | 151 | 74 | 17 | 4 | 10 | 19 |
| Pittsburgh, PA§ | 39 | 28 | 4 | 6 | - | 1 | 6 | El Paso, TX | 101 | 75 | 21 | 1 | 2 | 2 | 3 |
| Reading, PA | 41 | 30 | 7 | 4 | - | - | 2 | Fort Worth, TX | U | U | U | U | U | U | U |
| Rochester, NY | 155 | 121 | 22 | 11 | 1 | - | 18 | Houston, TX | 418 | 249 | 113 | 31 | 9 | 16 | 25 |
| Schenectady, NY | 36 | 25 | 8 | 3 | - | - | - | Little Rock, AR | 82 | 45 | 27 | 7 | 2 | 1 | 1 |
| Scranton, PA | 23 | 16 | 6 | 1 | - | - | 1 | New Orleans, LA | U | U | U | U | U | U | U |
| Syracuse, NY | 76 | 62 | 13 | 1 | - | - | 6 | San Antonio, TX | 276 | 175 | 67 | 22 | 8 | 4 | 21 |
| Trenton, NJ | 56 | 34 | 16 | 1 | 1 | 4 | 3 | Shreveport, LA | 56 | 33 | 14 | 7 | 2 | - | 4 |
| Utica, NY | 14 | 13 | - | - | - | 1 | 3 | Tulsa, OK | 161 | 120 | 25 | 13 | 2 | 1 | 7 |
| Yonkers, NY | 26 | 22 | 3 | 1 | - | - | 3 | Mountain | 1,100 | 725 | 242 | 71 | 32 | 30 | 75 |
| E.N. Central | 2,295 | 1,538 | 548 | 118 | 43 | 48 | 131 | Albuquerque, NM | 94 | 64 | 14 | 11 | 2 | 3 | 6 |
| Akron, OH | 54 | 37 | 12 | 3 | - | 2 | 4 | Boise, ID | 47 | 34 | 12 | - | 1 | - | 4 |
| Canton, OH | 42 | 28 | 11 | 3 | - | - | 2 | Colorado Springs, CO | 64 | 33 | 18 | 8 | 1 | 4 | 7 |
| Chicago, IL | 341 | 204 | 101 | 28 | 3 | 5 | 25 | Denver, CO | 97 | 59 | 30 | 3 | 2 | 3 | 10 |
| Cincinnati, OH | 102 | 59 | 25 | 7 | 4 | 7 | 6 | Las Vegas, NV | 289 | 209 | 56 | 13 | 5 | 6 | 20 |
| Cleveland, OH | 275 | 199 | 60 | 11 | 3 | 2 | 11 | Ogden, UT | 26 | 20 | 2 | 2 | 1 | 1 | 2 |
| Columbus, OH | 204 | 134 | 52 | 8 | 7 | 3 | 22 | Phoenix, AZ | 162 | 96 | 39 | 15 | 6 | 6 | 5 |
| Dayton, OH | 157 | 126 | 26 | 2 | 2 | 1 | 8 | Pueblo, CO | 32 | 24 | 7 | 1 | - | - | 1 |
| Detroit, MI | 175 | 94 | 61 | 9 | 4 | 7 | 11 | Salt Lake City, UT | 133 | 81 | 30 | 10 | 8 | 4 | 11 |
| Evansville, IN | 36 | 25 | 8 | 2 | 1 | - | - | Tucson, AZ | 156 | 105 | 34 | 8 | 6 | 3 | 9 |
| Fort Wayne, IN | 77 | 57 | 13 | 4 | 3 | - | 3 | Pacific | 1,605 | 1,127 | 345 | 82 | 29 | 22 | 151 |
| Gary, IN | 15 | 7 | 7 | 1 | - | - | 4 | Berkeley, CA | 10 | 8 | 2 | - | - | - | 1 |
| Grand Rapids, MI | 49 | 38 | 6 | 3 | - | 2 | 3 | Fresno, CA | U | U | U | U | U | U | U |
| Indianapolis, IN | 268 | 181 | 62 | 12 | 8 | 5 | 11 | Glendale, CA | 38 | 32 | 6 | - | - | - | 6 |
| Lansing, MI | 63 | 40 | 12 | 4 | 3 | 4 | 6 | Honolulu, HI | 69 | 57 | 10 | 2 | - | - | 9 |
| Milwaukee, WI | 100 | 68 | 22 | 7 | 1 | 2 | 2 | Long Beach, CA | 70 | 47 | 13 | 6 | 4 | - | 10 |
| Peoria, IL | 50 | 30 | 11 | 2 | 2 | 5 | 2 | Los Angeles, CA | 256 | 160 | 65 | 21 | 4 | 6 | 37 |
| Rockford, IL | 69 | 51 | 13 | 3 | - | 2 | 5 | Pasadena, CA | 30 | 23 | 5 | 1 | - | 1 | 3 |
| South Bend, IN | 38 | 28 | 7 | 2 | - | 1 | 1 | Portland, OR | 125 | 86 | 30 | 8 | - | 1 | 6 |
| Toledo, OH | 106 | 75 | 26 | 3 | 2 | - | 2 | Sacramento, CA | 190 | 130 | 45 | 10 | 1 | 4 | 18 |
| Youngstown, OH | 74 | 57 | 13 | 4 | - | - | 3 | San Diego, CA | 164 | 116 | 35 | 5 | 6 | 2 | 11 |
| W.N. Central | 662 | 424 | 150 | 46 | 20 | 22 | 40 | San Francisco, CA | 137 | 96 | 28 | 6 | 5 | 2 | 10 |
| Des Moines, IA | 65 | 47 | 11 | 4 | 1 | 2 | 2 | San Jose, CA | 208 | 146 | 47 | 10 | 4 | 1 | 18 |
| Duluth, MN | 21 | 14 | 7 | - | - | - | 1 | Santa Cruz, CA | 26 | 16 | 7 | 2 | 1 | - | 1 |
| Kansas City, KS | 30 | 20 | 4 | 5 | 1 | - | 3 | Seattle, WA | 106 | 76 | 18 | 7 | 1 | 4 | 4 |
| Kansas City, MO | 181 | 120 | 38 | 11 | 3 | 9 | 12 | Spokane, WA | 64 | 51 | 11 | 1 | - | 1 | 9 |
| Lincoln, NE | 27 | 23 | 4 | - | - | - | 2 | Tacoma, WA | 112 | 83 | 23 | 3 | 3 | - | 8 |
| Minneapolis, MN | 72 | 39 | 22 | 4 | 4 | 3 | 5 | Total ${ }^{11}$ | 12,386 | 8,312 | 2,838 | 722 | 236 | 275 | 840 |
| Omaha, NE | 66 | 51 | 13 | - | 1 | 1 | 7 |  |  |  |  |  |  |  |  |
| St. Louis, MO | 55 | 14 | 20 | 13 | 6 | 2 | 2 |  |  |  |  |  |  |  |  |
| St. Paul, MN | 57 | 32 | 14 | 5 | 2 | 4 | 2 |  |  |  |  |  |  |  |  |
| Wichita, KS | 88 | 64 | 17 | 4 | 2 | 1 | 4 |  |  |  |  |  |  |  |  |

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 $>100,000$. 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.
${ }^{1}$ T Total includes unknown ages.

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[^7]
[^0]:    *The initial Healthy People objective was developmental and lacked a baseline and target to enable measurement of progress. That objective read, "Eliminate racial disparities in the rate of total knee replacements." In 2006, the objective was revised to read, "Eliminate racial disparities in the rate of total knee replacements among persons aged 65 years and older. Target: 0 percent."

[^1]:    INSIDE
    138 Clostridium perfringens Infection Among Inmates at a County Jail - Wisconsin, August 2008
    142 Progress Toward Measles Elimination - European Region, 2005-2008
    145 Notice to Readers
    146 QuickStats

[^2]:    † Additional information available at http://www.cdc.gov/nchs/data/statnt/ statnt20.pdf.

[^3]:    * Probable cases $=$ cases with one or more self-reported symptoms (i.e., diarrhea, abdominal cramps, or nausea); confirmed cases $=$ probable case definition with positive stool specimen.

[^4]:    * Included 53 member states in 2008: Andorra, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Luxembourg, Monaco, Netherlands, Norway, Portugal, San Marino, Spain, Sweden, Switzerland, and the United Kingdom (grouped for this report as Western European), and Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Malta, Montenegro, Poland, Republic of Moldova, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Tajikistan, The former Yugoslav Republic of Macedonia, Turkey, Turkmenistan, Ukraine, and Uzbekistan (grouped for this report as Eastern European). Estimated population of EUR in 2006: 887.3 million.
    $\dagger$ Supplementary immunization activities (SIAs) increase population immunity by immunizing large numbers of susceptible persons in a short period. SIAs aimed at achieving $\geq 95 \%$ vaccination coverage among the targeted age groups are recommended for all EUR countries with susceptible cohorts older than the age appropriate to receive the second routine dose or with inadequate firstor second-dose coverage. Three types of SIAs are used in EUR: 1) catch-up campaigns (i.e., one-time national campaigns targeting multiple cohorts in whom susceptible persons have accumulated); 2) follow-up campaigns (i.e., national campaigns conducted every $3-5$ years to reach children who were not targeted by the previous mass campaign); and 3) focal campaigns (i.e., campaigns targeting children who have missed routine vaccination and previous mass campaigns in specific, geographically limited areas) (2).

[^5]:    ${ }^{\S}$ Additional information available at http://www.who.int/csr/ihr.

[^6]:    C.N.M.I.: Commonwealth of Northern Mariana Islands.

[^7]:    is U.S. Government Printing Office: 2009-523-019/41156 Region IV ISSN: 0149-2195

