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## Current Trends

## Oral Contraceptive Use and the Risk of Breast Cancer in Young Women

In March 1983, preliminary results were published by CDC and the National Institute of Child Health and Human Development from the Cancer and Steroid Hormone Study. This is a case-control study of breast, endometrial, and ovarian cancer in relation to oral contraceptive (OC) use. The preliminary findings suggested that there is no association between OC use and breast cancer (1). Since then, two studies of breast cancer have been published, one suggesting that women who use so-called "high-progestogen"* combination-type OCs before 25 years of age have an increased risk of developing breast cancer before age 37 (2); the other, that women who use OCs before their first term birth have an increased risk of developing breast cancer before age 45 (3). CDC has further analyzed the Cancer and Steroid Hormone Study data to look at these two specific issues.

Table 1 reports the relative risk of breast cancer by duration of use of high-progestogen, combination-type OCs before age 25 . No significant association was found between the use of high-progestogen OCs before age 25 and the development of breast cancer before age 37. Similar results were obtained by using as the reference group women who had never used OCs and by restricting the analysis to those women still nulliparous at age 25. Adjustment for known risk factors for breast cancer did not appreciably alter the results.
-See footnote to Table 1.
TABLE 1. Risk of breast cancer and use of high-progestogen* oral contraceptives before age 25 for women under age 37: Cancer and Steroid Hormone Study

| High- <br> progestogen <br> OC use (mos.) | Cases | Controls | Odds <br> ratio $^{\dagger}$ |
| :--- | :---: | :---: | :---: |
| 0 | 465 | 561 | 1.0 (REF) |
| $1-24$ | 134 | 162 | $1.0(0.9,1.8)$ |
| $25-48$ | 92 | 102 | $1.1(0.9,2.0)$ |
| $49-72$ | 27 | 41 | $0.8(0.6,1.7)$ |
| $73+$ | 10 | 14 | $0.9(0.4,2.5)$ |

[^0]Table 2 shows the relative risk of breast cancer before age 45 in women who used any OCs before their first full-term pregnancy; only parous women are included. Women who did not use OCs before their first full-term pregnancy constituted the reference group. No significant association was found between use of OCs before first term birth and subsequent development of breast cancer by age 45 . Inclusion of nulliparous women and their OC use in this table did not substantially alter the risk estimates.
Reported by Epidemiologic Studies Br, Research and Statistics Br, Div of Reproductive Health, Center for Health Promotion and Education, CDC.
Editorial Note: Different studies have reported conflicting results concerning the risk of breast cancer for young women using OCs (1-11). It is possible that methodologic differences between the studies account for the differences. The Cancer and Steroid Hormone Study data show that (1) use of "high-progestogen" OCs before age 25 does not increase a woman's risk of developing breast cancer before age 37, and (2) use of OCs before first fullterm pregnancy does not increase a woman's risk of developing breast cancer before age 45. The Cancer and Steroid Hormone Study is a population-based case-control study. Results were presented in 1983 (1) from the first 10 months of data collected. The data presented here are from the complete 29-month data file.

## References

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TABLE 2. Risk of breast cancer and use of oral contraceptives before first full-term pregnancy for women* under age 45: Cancer and Steroid Hormone Study

| OC use <br> (mos.) | Cases | Controls | Odds <br> ratio |
| :--- | ---: | ---: | :--- |
| None | 1,060 | 1,069 | 1.0 (REF) |
| $1-12$ | 149 | 142 | $0.9(0.7,1.1)$ |
| $13-48$ | 258 | 236 | $0.9(0.7,1.3)$ |
| $49+$ | 97 | 95 | $0.7(0.5,1.0)$ |

[^1]
## International Notes

## Q Fever Outbreak - Switzerland

On November 18, 1983, the Microbiology and Infectious Diseases Division of the Valais Central Laboratory (VCL) notified the Valais Health Department of an outbreak of Q fever in Bagnes, Switzerland. From October 15 to December 15, more than 300 persons with acute illness characterized by high fever, chills, general malaise, headache, and arthralgias were seen by a physician in Bagnes County (population approximately 4,700). To date, a total of 191 clinical cases of acute Q fever (Figure 1) have been serologically confirmed at the VCL by a fourfold or greater rise in $Q$ fever complement fixation phase II antibody titer or by a 1:20 or greater Coxiella burnetir-specific immunoglobulin $\mathbf{M}(\mathbf{I g M})$ titer using an indirect immunofluorescence test on a single serum specimen. Fifty-one specimens with positive titers were sent to the Rocky Mountain Laboratory, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, Montana, and all were confirmed. Serum samples from 2,962 well persons from Bagnes were taken during December 1983 for the detection of $C$. burnetii specific-lgM antibodies; 224 specimens ( $8 \%$ ) demonstrated titers of 1:20 or greater, indicating asymptomatic infection.

Patients with symptomatic infections ranged in age from 8 years to 82 years (median 35 years); 10 were children under 15 years of age. One hundred thirteen patients ( $59 \%$ ) were male. To date, no deaths have been attributed to acute Q fever. Twelve patients were hospitalized with severe bronchopneumonia; two of these also had myopericarditis, and one had granulomatous hepatitis. After November 20, doxycycline was prescribed for most patients for a period of 14 days and generally resulted in subjective symptomatic improvement.

The movement of sheep flocks has been implicated in the dissemination of the infection. Sheep flocks remained on mountain pastures from June to October 9, 1983, after which they returned to the villages. Higher attack rates occurred among persons living close to the roads on which the sheep traveled. Serum specimens were obtained from 432 sheep distributed in 12 flocks; 166 had C. burnetii antibodies, mainly from six of the 12 flocks. Increased fetal

FIGURE 1. Q fever cases, by date of onset - Bagnes, Switzerland, October 15, 1983December 15, 1983

mortality was also noted in infected flocks. On December 3, the Veterinary Department decided to isolate, vaccinate, and shear the sheep, destroy the wool, and disinfect the sheep pens.

To date, milk samples from 12 dairy herds have been evaluated for the presence of antibodies against C. burnetii. One sample was positive. Isolation of the organism was not attempted.
Reported by G Dupuis, MD, O Peter, PhD, Infectious Diseases and Microbiology Div, Valais Central Laboratory, J Petite, MD, Martigny County Hospital, M Vouilloz, MD, Valais Health Dept, Sion, Switzerland; MG Peacock, Rocky Mountain Laboratory, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, Montana; Div of Viral Diseases, Center for Infectious Diseases, CDC.
Editorial Note: Q fever is a zoonosis caused by C. burnetii, a rickettsial organism that is enzootic in a large variety of domestic and wild animals. Domestic ungulates, such as sheep, cattle, and goats, the usual reservoir for man, shed the organism in their feces, milk, urine, and especially their birth products. Humans acquire the infection from inhaling the dessicationresistant rickettsiae in aerosols and dusts, which can remain infectious for months or years (1). Since the disease was first reported in Australia in 1937, sporadic outbreaks and epidemics have been reported from more than 50 countries on five continents, usually occurring in areas where domestic ungulates are raised or animal products are processed (2). Although not a nationally reportable disease, $\mathbf{Q}$ fever in humans has been reported from 31 states in the United
(Continued on page 361)

TABLE I. Summary-cases specified notifiable diseases, United States

| Disease | 25th Week Ending |  |  | Cumulative, 25th Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { June } 23 . \\ 1984 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { June } 25, \\ 1983 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Median } \\ 1979-1983 \end{gathered}$ | June 23, 1984 | $\begin{gathered} \text { June } 25, \\ 1983 \\ \hline \end{gathered}$ | Median $1979-1983$ |
| Acquired Immunodeficiency Syndrome (AIDS) | 82 | N | N | 1.862 | N | N |
| Aseptic meningitis | 110 | 181 | 143 | 1,956 | 2.257 | 1.940 |
| Encephalitis: Primary (arthropod-bome \& unspec.) | 21 | 24 | 21 | 395 | 440 | 393 |
| Post-infectious | 5 | 2 | 4 | 47 | 52 | 52 |
| Gonorrhea: Civilian | 15.472 | 16.162 | 19.358 | 381,173 | 422,342 | 452,235 |
| Military | 287 | 371 | 379 | 9.587 | 11.479 | 13.050 |
| Hepatitis: Type A | 392 | 333 | 422 | 9.942 | 10.377 | 12,221 |
| Type B | 474 | 460 | 418 | 11.824 | 11,127 | 9.485 |
| Non A, Non B | 63 | 69 | N | 1.743 | 1.620 | N |
| Unspecified | 109 | 147 | 481 | 2,840 | 3.495 | 4,797 |
| Legionellosis | 9 | 11 | N | 266 | 335 | N |
| Leprosy | 3 | 5 | 1 | 109 | 126 | 90 |
| Malaria | 17 | 12 | 19 | 356 | 331 | 441 |
| Measles: Total ${ }^{\text {a }}$ | 56 | 79 | 79 | 1.635 | 1,036 | 2,194 |
| Indigenous | 52 | 77 | N N | 1.469 166 | 863 173 | N N |
| Meningococcal infections: Total | 4 50 | 2 49 | $N$ 50 | 166 1.553 | 173 1,633 | ${ }_{1.633}$ |
| Civilian | 50 | 49 | 49 | 1.549 | 1.617 | 1,617 |
| Military | - | - | 1 | 4 | 16 | 11 |
| Mumps | 68 | 50 | 114 | 1.857 | 2,041 | 3,824 |
| Pertussis | 28 | 53 | 27 | 938 | 881 | . 529 |
| Rubella (German measles) | 14 | 17 | 46 | 415 | 653 | 1.608 |
| Syphilis (Primary \& Secondary): Civilian | 499 | 611 | 611 | 13,229 | 15.552 | 14,384 |
| Military | 8 | 12 | 5 | 167 | 218 | 181 |
| Toxic Shock syndrome | 8 | 13 | N | 196 | 233 | ${ }^{\text {N }}$ |
| Tuberculosis | 450 | 499 | 506 | 10.081 | 10,803 | 12.646 |
| Tularemia | 3 | 13 | 10 | 64 | 107 | 83 |
| Typhoid fever | 8 | 14 | 11 | 146 | 165 | 186 |
| Typhus fever, tick-bome (RMSF) | 45 | 83 | 48 | 238 | 305 | 325 |
| Rabies, animal | 76 | 153 | 153 | 2,412 | 3,206 | 3.206 |

TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1984 |  | Cum. 1984 |
| :---: | :---: | :---: | :---: |
| Anthrax | 1 | Plague (Ariz. 1) | 11 |
| Botulism: Foodborne | 6 | Poliomyelitis: Total | 2 |
| Infant | 44 | Paralytic (La. 1) | 2 |
| Other | 3 | Psittacosis (Upstate N.Y. 1, Minn. 1, lowa 1, W.Va. 1) | 39 |
| Brucellosis | 44 | Rabies, human | - |
| Cholera | - | Tetanus (Fla. 1) | 20 |
| Congenital rubella syndrome | 3 | Trichinosis (Mass. 1, Upstate N.Y. 1) | 38 |
| Diphtheria | 8 | Typhus fever, flea-borne (endemic, murine) | 7 |

-Three of the 56 reported cases for this week were imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending
June 23, 1984 and June 25, 1983 (25th Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | Cum. 1984 | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ | 1984 | 1984 | 1984 | 1984 | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ |
| UNITED STATES | 1,862 | 110 | 395 | 47 | 381,173 | 422,342 | 392 | 474 | 63 | 109 | 9 | 109 |
| NEW ENGLAND | 64 | 3 | 25 | 1 | 11.015 | 10,351 | 4 | 14 | 3 | 13 | 1 | 5 |
| Maine | - | - | - | - | 434 | 549 | - | 2 | 1 | - | - | - |
| N.H. | 1 | - | 4 | - | 299 | 310 | - | 2 | - | - | - | - |
| Vt . | - | - | 2 | - | 182 | 197 | - | - | - | - | - | - |
| Mass. | 35 | 2 | 12 | - | 4.322 | 4,491 | 2 | 5 | - | 12 | 1 | 4 |
| R.I. | 4 | - | - | - | 721 | 578 | - | - | - | - | - | 1 |
| Conn. | 24 | 1 | 7 | 1 | 5,057 | 4.226 | 2 | 5 | 2 | 1 | - | - |
| MID ATLANTIC | 855 | 19 | 53 | 5 | 52.296 | 53.940 | 44 | 82 | 5 | 8 | 3 | 16 |
| Upstate N.Y. | 81 | 1 | 18 | 4 | 7.778 | 8,265 | 10 | 12 | 1 | 2 | - | 2 |
| N.Y. City | 615 | 3 | 3 | - | 22,261 | 22,294 | 8 | 21 | - | 1 | 1 | 14 |
| N.J. | 122 | 9 | 18 | - | 8,614 | 10,137 | 14 | 35 | 4 | 5 | 2 |  |
| Pa. | 37 | 6 | 14 | 1 | 13,643 | 13,244 | 12 | 14 | - | - | - | - |
| E.N. CENTRAL | 89 | 11 | 84 | 12 | 51.550 | 60,495 | 22 | 33 | 6 | 10 | - | 6 |
| Ohio | 13 | 3 | 32 | 5 | 13,599 | 16,018 | 7 | 11 | 1 | 1 | - | 2 |
| Ind. | 14 | 1 | 15 | - | 5,729 | 6.555 | 3 | 6 | - | 4 | - | - |
| III. | 45 |  | 11 | 6 | 11,383 | 17.161 | 2 | 2 | 1 | 2 | - | 2 |
| Mich. | 11 | 7 | 21 | - | 14,875 | 15,663 | 9 | 14 | 4 | 3 | - | 2 |
| Wis. | 6 | - | 5 | 1 | 5,964 | 5.098 | 1 | - | - | - | - | - |
| W.N. CENTRAL | 17 | 1 | 12 | - | 18,111 | 19,704 | 18 | 10 | 2 | 3 | 1 | 1 |
| Minn. | 4 | - | 3 | - | 2,601 | 2.777 | 1 | 2 | 1 |  | - | - |
| lowa | 1 | - | 6 | - | 2,055 | 2,163 | - | - | , | 2 | - | 1 |
| Mo. | 9 | - | 1 | - | 8,662 | 9,611 | 1 | 4 | 1 | - | - | - |
| N. Dak. | - | - | - | - | 181 | 187 | - | - | - | - | - | - |
| S. Dak. | - | - | - | - | 477 | 546 | 3 | - | - | - | - | - |
| Nebr. | 1 | 1 | 1 | - | 1.224 | 1.188 | 5 | 1 | - | 1 | 1 | - |
| Kans. | 2 | - | 1 | - | 2,911 | 3.232 | 8 | 3 | - | - | - | - |
| S. ATLANTIC | 252 | 24 | 78 | 11 | 96.897 | 108,408 | 34 | 106 | 14 | 15 | 1 | 5 |
| Del. | 3 | - | 1 | - | 1,724 | 1.926 | - | 4 | - | - | 1 | - |
| Md. | 19 | 5 | 19 | - | 10,877 | 13,762 | - | 16 | 3 | - | - | $\overline{-}$ |
| D. C . | 37 | - | - | - | 7.060 | 7.385 | - | 1 | - | - | - | 1 |
| Va . | 16 | - | 19 | 5 | 9.089 | 9,248 | 1 | - | - | 1 | - | 3 |
| W. Va. | 4 | - | 4 | - | 1,175 | 1.133 | - | 1 | - | - | - | - |
| N.C. | 5 | - | 16 | 5 | 15,508 | 15.946 | 3 | 4 | 1 | 2 | - | - |
| S.C. | 4 | - | 2 | - | 9,172 | 10,163 | 5 | 38 | - | 2 | - | - |
| Ga. | 20 | 1 | 2 | - | 18,791 | 23.200 | 3 | 20 | 1 | 3 | - | - |
| Fla. | 144 | 18 | 15 | 1 | 23,501 | 25,645 | 22 | 22 | 9 | 7 | - | 1 |
| E.S. CENTRAL | 14 | 9 | 19 | 5 | 32.125 | 35.377 | 6 | 35 | 4 | 1 | - | - |
| $K y .$ | 7 | 1 | 2 | - | 4,038 | 4.205 | 3 | 5 | 2 | - | - | - |
| Tenn. | 3 |  | 5 | - | 13,443 | 14,432 | - | 21 | 1 | 1 | - | - |
| Ala. | 3 | 8 | 11 | 5 | 10,609 | 10.849 | 2 | 3 | 1 | - | - | - |
| Miss. | 1 |  | 1 | 5 | 4,035 | 5.891 | 1 | 6 | - | - | - | - |
| W.S. CENTRAL | 98 | 23 | 29 | 3 | 52,093 | 59.032 | 44 | 28 | 3 | 35 | 2 | 7 |
| Ark. | 8 | - | , | 2 | 4,391 | 4,603 | - | - | - | - | - | - |
| La. | 18 | - | 4 | - | 11,983 | 10,316 | 1 | 3 | - | 1 | - | - |
| Okla. | 4 | 3 | 7 | 1 | 5,647 | 6,968 | 4 | 6 | 1 | - | 2 | 7 |
| Tex. | 76 | 20 | 18 | - | 30,072 | 37,145 | 39 | 19 | 2 | 34 | - | 7 |
| MOUNTAIN | 24 | 7 | 14 | 4 | 12,277 | 13,063 | 48 | 29 | 2 | 8 | 1 | 7 |
| Mont. | - | - | - | - | - 536 | 562 | 4 | . | - | - | - | - |
| Idaho | - | - | - | - | 592 | 583 | 1 | - | - | - | 1 | - |
| Wyo. | 1 | 1 | - | - | 365 | 342 | 1 | 2 | - | - |  | - |
| Colo. | 15 | 4 | 7 | - | 3.527 | 3,695 | 15 | 11 | 1 | 2 | - | - |
| N. Mex. | - | - | - | - | 1,366 | 1.583 | 6 |  | - | - | - | 5 |
| Ariz. | 6 | 1 | 3 | 1 | 3,339 | 3,653 | 11 | 13 | 1 | 3 | - | 5 |
| Utah | 1 | 1 | 4 | 3 | , 606 | 633 | 9 | 1 | - | 3 | - | 1 |
| Nev . | 1 | - | - | - | 1.946 | 2,012 | 1 | 2 | - | - | - | 1 |
| PACIFIC | 449 | 13 | 81 | 6 | 54,809 | 61.972 | 172 | 137 | 24 | 16 | - | 62 |
| Wash. | 24 | 1 | 3 | - | 3,681 | 4.597 | 10 | 8 | 6 | - | - | 3 |
| Oreg. | 3 | - |  | - | 3,233 | 3.137 | 18 | 9 | 5 | 5 | - | 1 |
| Calif. | 418 | 11 | 76 | 6 | 45,648 | 51.438 | 144 | 114 | 11 | 15 | - | 43 |
| Alaska | - | - | - |  | 1,334 | 1,526 | 1 | 3 | 2 |  | - | - |
| Hawaii | 4 | 1 | 2 | - | 913 | 1,274 | - | 3 | 2 | 1 | - | 15 |
| Guam | - |  | - |  | 89 | 88 | U | U | U |  |  |  |
| P.R. | 26 | 2 | - | 1 | 1.647 | 1.480 | 3 | 3 | U | 2 | - | - |
| V.I. | 2 | - | - | 1 | 198 | 1,488 | $\stackrel{-}{-}$ | - | - | 2 | - | - |
| Pac. Trust Terr. | . | U | - | - | 198 | 138 | U | U | U | U | U | - |

TABLE III. (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending June 23, 1984 and June 25, 1983 (25th Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported * |  | Total |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | Cum. <br> 1983 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | Cum. $1984$ | 1984 | Cum. <br> 1984 | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ | 1984 | Cum. $1984$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ |
| UNITED STATES | 356 | 52 | 1,469 | 4 | 166 | 1,036 | 1.553 | 68 | 1.857 | 28 | 938 | 881 | 14 | 415 | 653 |
| NEW ENGLAND | 26 | - | 82 | - | 8 | 14 | 97 | - | 56 | - | 15 | 31 | 1 | 30 | 8 |
| Maine N.H. | - | - | $33^{-}$ | - | 3 | 3 | 1 | - | 16 11 | - | 2 | 2 | - | 1 | 2 |
| Vt . | 2 | - | 2 | - | 2 | - | 22 | - | 3 | - | 11 | 4 | - |  | 3 |
| Mass. | 15 | - | 37 | - | - | 3 | 33 | - | 13 | - | 1 | 16 | 1 | 29 | 3 |
| R.I. | 3 | - | - | - | - | - | 9 | - | 4 | - | 1 | 3 | . | 29 | 3 |
| Conn. | 6 | - | 10 | - | 3 | 8 | 26 | - | 9 | - | - | - | - |  |  |
| MID ATLANTIC | 61 | - | 70 | - | 21 | 71 | 254 | 2 | 218 | 3 | 70 | 229 | 5 | 130 | 120 |
| Upstate N.Y. | 18 | - | 16 | - | 7 | 6 | 93 | 2 | 48 | 3 | 48 | 68 | 1 | 96 | 18 |
| N.Y. City | 13 | - | 51 | - | 7 | 35 | 37 | . | 12 |  | 3 | 32 | 4 | 31 | 85 |
| N.J. | 16 | - | 3 | - | 3 | 27 | 56 | - | 123 | - | 4 | 14 | 4 | 2 | 3 |
| Pa . | 14 | - | - | - | 4 | 3 | 68 | - | 35 | - | 15 | 115 | . | 1 | 14 |
| E.N. CENTRAL | 26 | 28 | 536 | $1+$ | 67 | 560 | 244 | 48 | 770 | 8 | 261 | 221 | 2 | 60 | 100 |
| Ohio | 6 | - | 1 | $1{ }^{+}$ | 6 | 78 | 85 | 43 | 388 | - | 47 | 69 | . | 2 | 1 |
| Ind. | - | - | 2 | - | 1 | 354 | 35 | - | 33 | 8 | 176 | 16 | - | 2 | 20 |
| Mi. | 6 | 28 | 159 | - | 1 | 123 | 49 | 5 | 151 |  | 15 | 100 | - | 31 | 43 |
| Wich. | 5 9 | 28 | 367 | - | 54 | 5 | 47 | - | 151 | - | 12 | 11 | 2 | 18 | 14 |
| Wis. | 9 | - | 7 | - | 5 | - | 28 | - | 47 | - | 11 | 25 | - | 7 | 22 |
| W.N. CENTRAL | 12 | 1 | 2 | - | 2 | 1 | 103 | 1 | 77 | 1 | 76 | 55 | 1 | 27 | 30 |
| Minn. | 2 | - | - | - | 2 | 1 | 20 | 1 | 3 | 1 | 8 | 20 | 1 | 2 | 6 |
| lowa | 1 | - | - | - | - | - | 18 | - | 17 | - | 3 | 5 | - |  | . |
| Mo. | 6 | 1 | 2 | - | - | - | 29 | - | 7 | - | 12 | 11 | - | - | - |
| N. Dak. | 1 | - | - | - | - | - | 1 | - | 1 | - | - | 1 | . | 3 |  |
| S. Dak. | - | - | - | - | - | - | 6 | - | - | - | 3 | 2 | - |  |  |
| Nebr. | 1 | - | - | - | - | - | 8 | - | 3 | - | 2 | - | - | - | - |
| Kans. | 1 | - | - | - | - | - | 21 | - | 46 | - | 48 | 16 | - | 22 | 24 |
| S. ATLANTIC | 65 | - | 10 | - | 17 | 176 | 343 | 3 | 130 | 6 | 65 | 124 | - | 20 | 72 |
| Del. | 3 | - | - | - | - | - | 3 | - | 2 | - | - | 2 | - |  |  |
| Md. | 16 | - | 4 | - | 5 | 4 | 27 | - | 26 | 1 | 4 | 17 | . | 1 | 1 |
| D.C. | 1 | - | - | - | 5 | - | 4 | - | 26 | 1 | 4 | 17 | - | 1 | 1 |
| Va . | 15 | - | 1 | - | 1 | 22 | 40 | 1 | 12 | 2 | 9 | 39 | - |  | 1 |
| W. Va. | 1 | - - | - | - | - | - | 5 | 1 | 27 | 2 | 7 | 4 | - |  | 1 |
| N.C. | 5 | - - | - | - | - | - | 48 | - | 14 | - | 17 | 9 | - |  | 8 |
| S.C. | 1 | - | - | - | - | 4 | 34 | 1 | 2 | - | 1 | 8 | . |  | 8 |
| G8. | 6 | - | $\stackrel{-}{5}$ | - | $\square$ | 8 | 70 | 1 | 17 | 1 | 3 | 27 | - | 2 | 10 |
| Fla. | 17 | - | 5 | - | 6 | 138 | 112 | , | 30 | 2 | 24 | 18 | - | 17 | 52 |
| E.S. CENTRAL | 3 | - | 1 | - | 2 | 6 | 60 | 1 | 36 | - | 5 | 7 | - | 7 |  |
| Ky. | - | - | 1 | - | - | 1 | 4 | - | 8 | - | 1 | 2 | - | 3 | 9 |
| Tenn. | 3 | - | - | - | 2 | - | 21 | 1 | 12 | - | 2 | 2 | - | 3 | 9 |
| Ala. | 3 | - | - | - | - | 5 | 24 | - | 5 | - | - | 1 | - | 1 | 1 |
| Miss. | - | - | - | - | - | - | 11 | - | 11 | - | 2 | 2 | - | 3 | 1 |
| W.S. CENTRAL | 32 | - | 332 | - | 14 | 70 | 173 | 3 | 102 | - | 226 | 98 | - | 13 | 85 |
| Ark. | 5 | - | - | - | - | 10 | 25 | . | 4 | - | 11 | 5 | - | 3 | 85 |
| La. | 5 | - | - | - | . | 25 | 35 | - | 4 | - | 3 | 2 | - | 3 | 9 |
| Okla. | 3 | - | 6 | - | $\stackrel{\circ}{\circ}$ | 1 | 23 | N | N | - | 201 | 70 | - | - | 9 |
| Tex. | 24 | - | 326 | - | 14 | 34 | 90 | 3 | 98 | - | 11 | 21 | - | 10 | 76 |
| MOUNTAIN | 12 | - | 79 | - | 10 | 3 | 56 | 2 | 191 | 1 | 68 | 79 | 1 | 11 |  |
| Mont. | 1 | - | - | - | - | - | 1 | 1 | 4 | 1 | 17 | 1 | 1 | 11 | 21 |
| Idaho | 2 | - | - | - | - | - | 6 | - | 8 | - | 2 | 2 | - | 1 | 8 |
| Wyo. | - | - | - | - | - | - | 2 | - | 1 | - |  | 4 | . | 2 | 1 |
| Colo. | 1 | - | , | - | - | 2 | 19 | 1 | 13 | - | 25 | 50 | - | 2 | 1 |
| N. Mex. | - | - | 56 | - | 8 | - | 7 | N | N | - | 25 5 | 5 | - | 2 | - |
| Ariz. | 6 | - | - | - | - | 1 | 14 | N | 159 | - | 9 | 9 | - | - | 4 |
| Utah | 2 | - | 23 | - | 2 | - | 4 | - | 5 | 1 | 5 | 7 | 1 | 6 | 4 5 |
| Nev. | - | - | 2 | - | 2 | - | 3 | - | 1 | 1 | 2 | 7 | 1 | 6 | 5 1 |
| PACIFIC | 119 | 23 | 357 | 3 | 25 | 135 | 223 | 8 | 277 | 9 | 152 | 37 | 4 | 117 |  |
| Wash. | 3 | - | 89 |  | - | 4 | 29 | 3 | 30 | 7 | 25 | 37 4 | 4 | 11 | 207 |
| Oreg. | $\begin{array}{r}6 \\ \hline\end{array}$ | 1 | 35 | $3+5$ | 2 | 7 | 35 | N | N |  | 9 | 5 | - | 1 | 12 |
| Calif. | 107 | 1 | 235 | $3 \dagger \$$ | 22 | 123 | 150 | 3 | 231 | 2 | 52 | 28 | 3 | 113 | 189 |
| Alaska | - | - | - | - | - | - | 8 | - | 4 | 2 | 5 | 2 | 1 | 1 | 189 |
| Hawaii | 3 | 22 | 33 | - | 3 | 1 | 1 | 2 | 12 | - | 66 | - | 1 | 2 | - |
| Guam | 2 | U | 83 | U | 2 | 2 | 1 | U | 5 | U |  |  | U | 1 |  |
| P.R. | 2 | - | - | - | - | 81 | 3 | 1 | 86 | U | - | 8 | - | 5 | 3 |
| V.I. | - | , | - | , | - | 5 |  | , | 3 | - | - | 8 | - | 5 | 3 1 |
| Pac. Trust Terr. | - | $\mathbf{U}$ | - | U | - | 5 | - | U | 3 | u | - | - | U |  | 1 |

TABLE III. (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending
June 23, 1984 and June 25, 1983 (25th Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxicshock Syndrome | Tuberculosis |  | Tularemia | Typhoid Fever | $\begin{gathered} \text { Typhus Fever } \\ \text { (Tick-borne) } \\ \text { (RMSF) } \\ \hline \end{gathered}$ | Rabies, Animal |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1983 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ |
| UNITED STATES | 13,229 | 15,552 | 8 | 10,081 | 10,803 | 64 | 146 | 238+4 | 2,412 |
| NEW ENGLAND | 271 | 332 | - | 278 | 297 | 2 | 7 | 1 | 15 |
| Maine | 2 | 9 | - | 13 | 18 | - | - | - | 9 |
| N.H. | 5 | 11 | - | 21 | 23 | - | - | - | - |
| Vt . | 1 | 1 | - | 3 | 2 | - | - | - | - |
| Mass. | 159 | 203 | - | 146 | 159 | 2 | 5 | 1 | 5 |
| R.I. | 8 | 13 | - | 25 | 25 | - | - | - | - |
| Conn. | 96 | 95 | - | 70 | 70 | - | 2 | - | 1 |
| MID ATLANTIC | 1.814 | 1.965 | 2 | 1,838 | 1,915 | - | 20 | 2 | 145 |
| Upstate N.Y. | 123 | 158 | - | 301 | 307 | - | 9 | 1 | 11 |
| N.Y. City | 1.132 | 1.154 | - | 752 | 802 | - | 4 | 1 | 4 |
| N.J. | 339 | 383 | 2 | 398 | 407 | - | 3 | - | $13{ }^{4}$ |
| Pa . | 220 | 270 | . | 387 | 399 | - | 4 | - | 130 |
| E.N. CENTRAL | 595 | 881 |  | 1.356 | 1.355 | - | 19 | $11+$ | $101$ |
| Ohio | 121 | 225 | $1$ | 265 | 223 | - | 3 | $10$ | $9$ |
| Ind. | 66 | 73 | - | 138 | 119 | - | 2 | - | 11 |
| III. | 177 | 444 | - | 565 | 587 | - | 8 | $\overline{-}$ | 43 |
| Mich. | 192 | 101 | 3 | 306 | 351 | - | 2 | 11 | 10 |
| Wis. | 39 | 38 |  | 82 | 75 | - | 4 | - | 28 |
| W.N. CENTRAL | 208 | 189 | - | 296 | 357 | 18 | 5 | $21:$ | 380 |
| Minn. | 60 | 80 | - | 52 | 74 | - | 2 | - | 36 |
| lowa | 10 | 7 | - | 34 | 35 | $\stackrel{-}{-}$ | - | - | 75 |
| Mo. | 106 | 65 | - | 138 | 186 | 16 | 2 | 3 | 35 |
| N Dak. | 4 | 1 | - | 8 | 3 | - | - | - | 75 |
| S. Dak. | 2 | 8 | - | 9 | 22 | 2 | - | 2 | 94 |
| Nebr. | 10 | 11 | - | 16 | 9 | - | - | 11 | 28 |
| Kans. | 16 | 17 | - | 39 | 28 | - | 1 | 15 r | 37 |
| S. ATLANTIC | 3.912 | 4.089 | - | 2.131 | 2.108 | 3 | 16 | 99 ! | 729 |
| Del | 13 | 18 | - | 29 | 2. 17 | - |  | - | 1 |
| Md | 255 | 265 | - | 251 | 162 | - | - | 87 | 428 |
| D.C. | 146 | 174 | - | 81 | 81 | - | 6 | 17 | 12 |
| Va | 209 | 285 | - | 217 | 208 | - | 4 | 11 | 126 |
| W Va. | 10 | 15 | - | 71 | 74 | , | , | 4 | 18 |
| N.C. | 392 | 376 | - | 312 | 284 | 1 | 1 | 33 | 10 |
| S.C. | 362 | 257 | - | 246 | 190 | - | 1 | 32 | 20 |
| Ga. | 676 | 775 | - | 282 | 390 | 2 | 1 | 10 | 78 |
| Fla | 1,849 | 1.924 | - | 642 | 702 | - | 3 | 1 | 48 |
| ES CENTRAL | 852 | 1.065 | - | 924 | 1.037 | - | 5 | 20 : | 123 |
| K $\mathbf{y}$. | 52 | 61 | - | 215 | 265 | - | 2 | 2 | 29 |
| Tenn. | 244 | 305 | - | 292 | 311 | - | 2 | 10 | 55 |
| Ala. | 287 | 432 | - | 284 | 259 | - | 1 | 5 | 39 |
| Miss. | 269 | 267 | - | 133 | 202 | - | - | 3 | - |
| W.S. CENTRAL | 3,160 | 4,079 | - | 1,110 | 1.331 | 24 | 8 | 79 | 529 |
| Ark. | 89 | 101 | - | 116 | 143 | 18 | - | 9 | 56 |
| La. | 592 | 846 | - | 152 | 224 | 3 | 1 | 1 | 23 |
| Okla. | 87 | 112 | - | 115 | 126 | 3 | 1 | 53 1 | 62 |
| Tex. | 2.392 | 3.020 | - | 727 | 838 | - | 6 | 16 | 388 |
|  | 320 | 342 | 1 | 262 | 303 | 13 | 9 | $3 \rightarrow$ | 97 |
| Mont. | 2 | 5 | I | 13 | 22 | - | 1 | 3 | 56 |
| Idaho | 14 | 6 | - | 15 | 14 | 3 | - | - | - |
| Wro. | 3 | 6 | - | - | 7 |  | - | - | - |
| Colo. | 70 | 74 | - | 25 | 33 | 4 | 2 | - | 8 |
| N. Mex | 41 | 111 | - | 50 | 59 | 1 | 2 | - | 9 |
| Ariz. | 128 | 81 | - | 125 | 130 | 2 | 3 | - | 21 |
| Utah | 10 | 11 | - | 18 | 23 | 2 | - | - | - |
| Nev . | 52 | 48 | 1 | 16 | 15 | 1 | 1 | - | 3 |
| PACIFIC | 2,097 | 2,610 | 1 | 1,886 | 2,100 | 4 | 57 | 2 | 293 |
| Wash. | 60 | 95 | - | 97 | 105 | - | 1 | - | 1 |
| Oreg. | 67 | 49 | - | 77 | 86 | 2 | 1 | 1 | 1 |
| Calif. | 1.930 | 2.424 | 1 | 1.580 | 1.747 | 2 | 51 | 1 | 285 |
| Alaska | $3$ | 7 |  | 28 | 33 | - | 1 | 1 | 6 |
| Hawaii | 37 | 35 | - | 104 | 129 | - | 3 | - | - |
| Guam | - |  | U | 5 | 4 | - | - | - | - |
| P.R. | 418 | 499 | U | 205 | 242 | - | 3 | - | 29 |
| V.I. | 7 | 9 | - | 2 | 1 | - | 3 | - | 29 |
| Pac. Trust Terr. | - |  | U | 2 | - | - | - | - | - |

TABLE IV. Deaths in 121 U.S. cities,* week ending
June 23, 1984 (25th Week Ending)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\& } 1^{\bullet \bullet} \\ & \text { Total } \end{aligned}$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\& $1^{-0}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { All } \\ & \text { Ages } \end{aligned}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAAND | 696 | 462 | 174 | 32 | 12 | 16 | 50 | S. ATLANTIC | 1,398 | 832 | 372 | 108 | 44 | 42 | 56 |
| Boston, Mass. | $174$ | 105 | 45 | 12 | 6 | 6 | 12 | Atlanta, Ga. | 145 | 91 | 35 | 10 | 4 | 5 | 4 |
| Bridgeport, Conn. | 55 | 33 | 16 | 3 |  | 3 | 4 | Baltimore, Md. | 298 | 187 | 74 | 23 | 10 | 4 | 7 |
| Cambridge, Mass. | 28 | 17 | 7 | 4 | - | - | 3 | Charlotte, N.C. | 73 | 40 | 25 | 2 | 1 | 5 | 5 |
| Fall River, Mass. | 23 | 17 | 6 | - | - | - | 2 | Jacksonville, Fla. | 87 | 53 | 24 | 5 | 4 | 1 | 8 |
| Hartford, Conn. | 63 | 38 | 20 | 3 |  | 2 | 2 | Miami, Fla. | 106 | 58 | 36 | 8 | 3 | 1 | 1 |
| Lowell, Mass. | 30 | 22 | 5 | - | 3 | - | - | Norfolk, Va. | 58 | 39 | 12 | 4 | - | 3 | 3 |
| Lynn, Mass. | 21 | 13 | 7 | 1 | - | - | $\overline{-}$ | Richmond, Va. | 80 | 49 | 21 | 5 | 3 | 2 | 3 |
| New Bedford, Mass | s. 28 | 19 | 7 | 2 | - | - | 2 | Savannah, Ga. | 42 | 26 | 12 | 3 | 3 | 1 | 4 |
| Now Haven, Conn. | 51 77 | 37 | 10 | 1 | 1 | 2 | 2 | St. Petersburg, Fla. | 107 | 85 | 12 | 3 | 5 | 2 | 7 |
| Providence, R.I. | 77 | 54 | 20 | - | 1 | 2 | 3 | Tampa, Fla. | 80 | 41 | 20 | 11 | 7 | 1 | 5 |
| Somerville, Mass. | 10 | 7 | 3 | - | - | - | - | Washington, D.C. | 268 | 140 | 81 | 27 | 6 | 14 | 4 |
| Springfield, Mass. | 53 | 40 | 9 | 3 | - | 1 | 6 | Wilmington, Del. | 54 | 23 | 20 | 7 | 1 | 3 | 5 |
| Waterbury, Conn. | 24 | 19 | 5 | - | - | - | 5 | Wilmington, Dol. |  |  |  |  |  | 3 | 5 |
| Worcester, Mass. | 59 | 41 | 14 | 3 | 1 | - | 9 | E.S. CENTRAL | 726 | 475 | 166 | 41 | 25 | 19 | 38 |
|  |  |  |  |  |  |  |  | Birmingham, Ala. | 123 | 82 | 26 | 7 | 4 | 4 | 2 |
| MID. ATLANTIC 2 | $2,694$ | 1.798 39 | 612 | 171 | 56 | 57 | 120 | Chattanooga, Tenn. | 54 | 38 | 12 | 2 | 2 | - | 5 |
| Albany, N.Y. | $58$ | 39 | 11 | 1 | 2 | 5 | 1 | Knoxville, Tenn. | 82 | 53 | 20 | 5 | 2 | 2 | 8 |
| Allentown, Pa. | 20 | 16 | 3 | 1 | - | - | - | Louisville, Ky. | 105 | 72 | 24 | 3 | 3 | 3 | 9 |
| Buffalo, N.Y. | 119 | 81 | 28 | 6 | 2 | 2 | 9 | Memphis, Tenn. | 150 | 99 | 38 | 8 | 4 | 1 | 7 |
| Camden, N.J. | 43 | 27 | 10 | 3 | - | 3 | - | Mobile, Ala. | 66 | 50 | 8 | 5 | 3 | 1 | 4 |
| Elizabeth, N.J. | 21 | 15 | 6 | - | - | - | 4 | Montgomery, Ala. | 44 | 23 | 10 | 2 | 2 | 7 | 4 |
| Erie, Pa.t | 51 | 33 | 14 | - | 2 | 2 | 5 | Nashville, Tenn. | 102 | 58 | 28 | 9 | 5 | 2 | 3 |
| Jersoy City, N.J. | 54 | 31 | 13 | 6 | 2 | 2 | 2 |  |  |  |  | $\bigcirc$ | 5 | 2 | 3 |
| N.Y. City, N.Y. 1 | 1,430 | 953 | 300 | 117 | 33 | 27 | 56 | W.S. CENTRAL | 1,285 | 728 | 321 | 115 | 64 | 57 | 41 |
| Newark, N.J. | 62 | 34 | 19 | 4 | 2 | 3 | 1 | Austin, Tex. | 47 | 25 | 14 | 4 | 4 | - | 3 |
| Paterson, N.J. | 25 | 16 | 5 | 3 | - | 1 | 1 | Baton Rouge, La. | 37 | 24 | 11 | - | 1 | 1 | - |
| Philadelphia, Pa.t | 354 | 230 | 98 | 16 | 6 | 4 | 18 | Corpus Christi, Tex. | 35 | 29 | 4 | 1 | - | 1 | 1 |
| Pittsburgh, Pa.t | 67 | 46 | 19 | - | 2 | - | - | Dallas, Tex. | 190 | 107 | 45 | 20 | 8 | 10 | 3 |
| Reading. Pa. | 35 | 30 | 5 | - | - | - | 3 | El Paso. Tex. | 52 | 38 | 10 | 4 | - | , | 2 |
| Rochester, N.Y. | 113 | 79 | 23 | 6 | 1 | 4 | 9 | Fort Worth, Tex. | 72 | 42 | 19 | 5 | 3 | 3 | 5 |
| Schenectady, N.Y. | 30 | 23 | 4 | 1 | - | 2 | - | Houston, Tex. | 317 | 147 | 88 | 41 | 21 | 20 | 3 |
| Scranton, Pa.t | 25 | 15 | 9 | - | 1 | - | 2 | Little Rock, Ark. | 107 | 61 | 20 | 12 | 3 | 11 | 8 |
| Syracuse, N.Y. | 93 | 62 | 27 | 2 | 1 | 1 | 5 | New Orleans, La. | 163 | 93 | 43 | 10 | 11 | 6 |  |
| Trenton, N.J. | 45 | 29 | 12 | 2 | 1 | 1 | 1 | San Antonio, Tex. | 143 | 83 | 35 | 13 | 7 | 5 | 9 |
| Utica, N.Y. | 16 | 12 | 3 | - | 1 | - | 1 | Shreveport, La. | 43 | 25 | 14 | 2 | 2 | . |  |
| Yonkers, N.Y. | 33 | 27 | 3 | 3 | - | - | 2 | Tulsa, Okla. | 79 | 54 | 18 | 3 | 4 | . | 7 |
| E.N. CENTRAL 2 | 2,178 | 1.541 | 377 | 118 | 71 | 64 | 72 | MOUNTAIN | 648 | 388 | 147 | 49 | 34 | 30 | 30 |
| Akron, Ohio | 55 | 41 | 10 | 1 | 2 | 1 | - | Albuquerque, N.Mex | - 79 | 41 | 18 | 11 | 6 | 3 | 3 |
| Canton, Ohio | 45 | 31 | 7 | 3 | 2 | 2 | 1 | Colo. Springs, Colo. | . 32 | 21 | 7 | 1 | 2 | 1 | 5 |
| Chicago, 渞§ | 486 | 436 | 6 | 10 | 11 | 16 | 9 | Denver, Colo. | 135 | 81 | 29 | 8 | 2 | 15 | 5 |
| Cincinnati, Ohio | 167 | 115 | 36 | 9 | 4 | 3 | 16 | Las Vegas, Nev. | 72 | 44 | 16 | 5 | 5 | 2 | 4 |
| Cleveland, Ohio | 153 | 98 | 40 | 10 | 3 | 2 | 1 | Ogden, Utah | 27 | 11 | 10 | 4 | 1 | 1 | 3 |
| Columbus, Ohio | 131 | 74 | 37 | 11 | 5 | 4 | 3 | Phoenix, Ariz. | 145 | 86 | 29 | 13 | 12 | 5 | 2 |
| Dayton, Ohio | 99 | 65 | 23 | 2 | 2 | 7 | 2 | Pueblo, Colo. | 25 | 17 | 7 |  | 1 | - | 2 |
| Detroit, Mich. | 242 | 147 | 56 | 23 | 6 | 10 | 6 | Salt Lake City, Utah | 41 | 25 | 9 | 3 | 3 | 1 | 1 |
| Evansville, Ind. | 42 | 30 | 8 | 2 | 2 | - |  | Tucson, Ariz. | 92 | 62 | 22 | 4 | 2 | 2 | 5 |
| Fort Wayne, Ind. | 52 | 34 | 8 | 2 | 4 | 4 | 4 |  |  |  |  |  |  |  |  |
| Gary, Ind. | 18 | 11 | 5 | 1 | 1 | - | - | PACIFIC | 1,854 | 1,199 | 410 | 128 | 66 | 49 | 93 |
| Grand Rapids, Mich. | h. 64 | 43 | 6 | 8 | 6 | 1 | 4 | Berkeley, Calif. | 1,85 | 1. 8 | 1 | , | 6 | 4 | 1 |
| Indianapolis, Ind. | 175 | 104 | 40 | 16 | 11 | 4 | 2 | Fresno, Calif. | 74 | 42 | 18 | 2 | 10 | 2 | 7 |
| Madison, Wis. | 24 | 15 | 6 | 3 | - | 3 | 1 | Glendale, Calif. | 22 | 16 | 5 | 2 | 1 | - | 7 |
| Milwaukee. Wis. | 137 35 | 100 | 27 | 7 | - | 3 | 8 | Honolulu, Hawaii | 63 | 38 | 14 | 7 | 3 | 1 | 1 |
| Peoria, IH. | 35 | 25 | 7 | 1 | - | 3 | 4 | Long Beach, Calif. | 84 | 58 | 16 | 3 | - | 7 | 3 |
| Rockford, IIM. | 33 | 19 | 8 | 1 | 3 | 2 | 3 | Los Angeles, Calif. | 486 | 292 | 120 | 54 | 14 | 5 | 18 |
| South Bend, Ind. | 50 | 32 | 13 | 3 | 2 | 2 | 2 | Oakland, Calif. | 80 | 46 | 26 |  | 2 | 6 | 4 |
| Toledo, Ohio | 108 | 77 | 27 | 2 | 7 | 2 | 6 | Pasadena, Calif. | 42 | 31 | 5 | 2 | 1 | 3 | 3 |
| Youngstown, Ohio | 62 | 44 | 7 | 4 | 7 | - | - | Portland, Oreg. | 122 | 85 | 21 | 6 | 6 | 4 | 6 |
|  |  |  |  |  |  |  |  | Sacramento, Calif. | 130 | 88 | 27 | 5 | 8 | 1 | 11 |
| W.N. CENTRAL | 740 | 489 | 167 | 46 | 17 | 19 | 29 | San Diego, Calif. | 145 | 95 | 29 | 15 | 3 | 3 | 9 |
| Des Moines, Lowa | 77 | 51 | 19 | 2 | 1 | 2 | 5 | San Francisco, Calif. | f. 174 | 117 | 34 | 17 | 2 | 4 | 3 |
| Duluth, Minn. | 17 | 11 | 5 | 4 | - | 1 | 2 | San Jose, Calif. | 139 | 96 | 31 | 3 | 3 | 6 | 10 |
| Kansas City, Kans. | 42 | 26 | 12 | 4 | 1 | 4 | 2 | Seattle, Wash. | 147 | 96 | 29 | 10 | 6 | 6 | 7 |
| Kansas City, Mo. | 127 | 87 | 26 | 9 | 1 | 4 | 5 | Spokane, Wash. | 60 | 44 | 14 | 1 | 1 | - | 3 |
| Lincoln, Nebr. | 29 | 18 | 8 | 2 | 1 | - | 3 | Tacoma, Wash. | 77 | 47 | 20 | 3 | 6 | 1 | 7 |
| Minneapolis, Minn. | . 81 | 59 | 12 | 6 | 3 | 1 | 3 |  |  |  |  |  |  |  |  |
| Omaha, Nebr. | 99 | 53 | 32 | 12 | 5 | 2 | 5 | TOTAL 1 | $12.219^{\text {tt }}$ | 7.912 | 2.746 | 808 | 389 | 353 | 529 |
| St. Louis, Mo. | 153 | 104 | 31 | 7 | 5 | 6 | 6 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 72 | 55 | 12 | 2 | 3 | - | - |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 43 | 25 | 10 | 2 | 3 | 3 | 3 |  |  |  |  |  |  |  |  |

[^2]Q Fever - Continued
States. (3). Most recently, four outbreaks have been reported among researchers and staff in urban research facilities using sheep as research animals (4).

It is of particular interest that this large outbreak in Switzerland occurred in the fall months. Most outbreaks in rural communities occur during the spring lambing season when the normally asymptomatic infected ewe can shed as many as one billion organisms per gram of placenta. In this instance, animals apparently shed the organism for many months after the lambing season. It has been suggested that an unusually dry summer and autumn may have encouraged the formation and propagation of infectious dusts and aerosols, especially along the route of sheep movement.

The clinical illness was similar to that reported in previous outbreaks. The infection is often asymptomatic or mistaken for an acute viral illness. After an incubation period of 2-3 weeks, $\mathbf{Q}$ fever usually presents with fever, headache, and myalgias. Although often said to be a pulmonary disease, the frequency of clinical pneumonitis is highly variable (5). Occasionally, the illness may be prolonged with severe pneumonitis and hepatic involvement. Tetracycline and chloramphenicol are effective in shortening the course of illness. Although the acute disease is usually self-limited, $\mathbf{Q}$ fever endocarditis may occasionally develop 3-20 years following the acute infection and is often fatal (6).

Because of the nonspecific clinical presentation, outbreaks of $\mathbf{Q}$ fever undoubtedly go unrecognized. A knowledge of the disease epidemiology and a high index of suspicion are necessary for diagnosis. Both immunofluorescent and complement fixation tests are available that are highly specific for the diagnosis of $\mathbf{Q}$ fever (7). Initial evaluations of experimental $\mathbf{Q}$ fever vaccines for humans and animals are encouraging (8). CDC is interested in receiving reports of Q fever outbreaks and cases, which should first be reported to local and state health departments.

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## Current Trends

## Gonorrhea - United States, 1983

In 1983, the number of gonorrhea cases reported to CDC fell to 900,435, a 6.3\% decrease from the 960,633 cases reported in 1982. Gonorrhea rates also declined to 387.6 per 100,000 population, down $7.3 \%$ from 1982. This continues a trend that began in 1975 (Figure 1). Between 1975 and 1983, reported gonorrhea rates remained highest in the south-

Gonorrhea - Continued
eastern United States but followed the national trend of decline. Rates in the mid-Atlantic region generally declined more slowly than those in other reporting regions. While the greater proportion of reported cases came from the public sector, both the public and private sectors shared in the decline.

From 1982 to 1983, rates decreased by $9.5 \%$ for males and $4.0 \%$ for females (Table 3). Even with declining morbidity, persons 20-24 years old continued to account for $35 \%-40 \%$, and persons $15-19$ years old, for nearly $25 \%$, of all reported cases of gonorrhea each year. Rates for 20 - to 24 -year-old males and females were highest up to 1982 . By 1982, rates for 15 - to 19 -year-old females exceeded those for 20 - to 24 -year-old females.

Between 1976 and 1982, the annual number of reported cases of penicillinase-producing Neisseria gonorrhoeae (PPNG) increased from 98 cases to 4,457 cases, then decreased to 3,720 cases in 1983. Of all PPNG cases reported since 1976, $59.0 \%$ have been from three geographic areas: California (21.5\%), Florida (20.4\%), and New York City (17.1\%).

In early 1983, an outbreak of nonpenicillinase-producing (chromosomally mediated) resistant $N$. gonorrhoeae occurred in North Carolina (1). Since that outbreak, this strain has been reported with increasing frequency from 16 other states (2).
Reported by Sexually Transmitted Diseases Laboratory Program, Center for Infectious Diseases, Div of Sexually Transmitted Diseases, Center for Prevention Svcs, CDC.
Editorial Note: Between 1960 and 1975, the number of gonorrhea cases reported in the United States increased substantially. The largest increases occurred among persons 15-24 years of age, partly because of the post-World War II "baby boom," which created a larger population in this age group. Since 1975, both the public and private sectors have reported a decline in gonorrhea cases. This decline may have been influenced by one or more of the following: more focused control activities; changes in surveillance and reporting resulting in better case identification and earlier treatment; or changes in biologic properties of the organism or in biologic and behavioral host factors.

Morbidity declined among both males and females but more slowly for females. This trend is disturbing, especially for younger females, because of the potential for more severe immediate and chronic sequelae, such as pelvic inflammatory disease and infertility (3).

FIGURE 2. Gonormea incidence rates, per 100,000 population - United States, 1968-1983


## Gonorrhea - Continued

The slower decline in morbidity among females may be due to less effective control measures to decrease transmission to females than to males, variations in surveillance and reporting between males and females, or differences between males and females in care-seeking behavior. Because more than half of all gonorrhea cases are reported from public clinics, and because males account for more than half of public clinic attendance ( 2,4 ), decreases in male morbidity may be more accurately represented, while cases among females may be underreported or undetected by the existing surveillance system. Additionally, if females seek care from sources other than public clinics, cases may not enter the reporting system.

Gonococcal antibiotic resistance has assumed increasing importance for national and local control programs. Although PPNG declined in 1983, nonpenicillinase-producing resistant N. gonorrhoeae (chromosomally mediated) has been observed with increasing frequency. While a larger proportion of PPNG has been linked to domestic transmission, foreign importation continues to contribute significantly to PPNG morbidity in the United States (5). In contrast, other resistant $N$. gonorrhoeae has been largely associated with endemic transmission (2), with importation infrequently documented for these cases.

Reporting of all gonorrhea cases from both public and private sectors is encouraged. Additional emphasis should be placed on examining trends and reporting patterns, especially for teenagers and females. These activities should be supported by testing all gonococcal isolates for $\beta$-lactamase (penicillinase) production. Screening of all $\beta$-lactamase-negative treatment failure isolates for penicillin susceptibility is recommended to identify other resistant organisms (1). CDC guidelines provide treatment recommendations for both penicillin-susceptible and -resistant cases of N. gonorrhoeae (6).

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TABLE 3. Selected gonorhea incidence rates per 100,000 population, by age group, sex, and year - United States, 1982 and 1983

| Year and <br> age group | Males | Females |
| :--- | ---: | ---: |
| 1982 |  |  |
| $15-19$ | 980 | 1,425 |
| $20-24$ | 2,107 | 1,356 |
| $25-29$ | 518 | 567 |
| All ages |  | 324 |
| 1983 |  |  |
| $15-19$ | 1,988 |  |
| $20-24$ | 1,236 | 1,344 |
| $25-29$ | 469 | 1,303 |
| All ages |  | 555 |
|  |  | 311 |

## Correction of Error Regarding Malaria Treatment in Disease-A-Month

In the March 1984 issue of Disease-A-Month, an article entitled, "Tropical Diseases of North America," appeared. In Table 5, "Malaria Prophylaxis and Therapy" on page 39, a potentially serious error of dosage appeared-the pediatric dose of primaquine phosphate was printed in error as $5 \mathrm{mg} / \mathrm{kg} /$ day $\times 14$ days. This is 10 times the correct dose, which is 0.5 $\mathrm{mg} / \mathrm{kg} /$ day (or $0.3 \mathrm{mg} / \mathrm{kg} /$ day of primaquine base) $\times 14$ days. Since primaquine has a relatively low therapeutic index, the stated dose could lead to significant toxicity, and this correction should be noted. The stated maximum dose ("not to exceed $26.3 \mathrm{mg} /$ day") is correct.

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\&u.S. Government Printing Office: 1984-746-149/10001 Region IV

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[^0]:    -Includes Ovulen, Demulen, Ovral, Enovid 10, Norinyl 10, Ortho-Novum 10, Lo/Ovral, Enovid 5, Norlestrin 2.5 (2). (Use of trade names is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.)
    ${ }^{\dagger}$ Crude odds ratios with $95 \%$ confidence limits in parentheses.

[^1]:    -Restricted to parous women.
    ${ }^{\dagger}$ Odds ratios with $95 \%$ confidence limits in parentheses adjusted for age at first birth, family history of breast cancer, history of benign breast disease, age at menarche, and menopausal status.

[^2]:    - Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
    -- Preumonia and influenza
    † Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
    t† Total includes unknown ages.
    § Data not available. Figures are estimates based on average of past 4 weeks

[^3]:    The Morbidity and Mortality Weokly Report is prepared by the Centers for Disease Control. Atlanta. Georgia, and available on a paid subscription basis from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, (202) 783-3238.

    The data in this report are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

    The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: ATTN: Editor, Morbidity and Mortality Weekly Report, Centers for Disease Control, Atlanta. Georgia 30333.

