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Current Trends

Cigarette Smoking in the United States - 1975

The percentage of adult smokers has decreased in the last decade, according to a 1975 survey on smoking behavior and attitudes among adults in the U.S. population. The survey of 12,000 persons over the age of 21 was conducted under the auspices of the National Clearinghouse for Smoking and Health, CDC, in cooperation with the National Cancer Institute.

Except for a few age categories, the percentage of male and female smokers was down from that indicated in previous surveys conducted in 1964/66* and 1970. The exceptions were among women 21 to 24, women 55 and over, and men 65 and over, where there was a slight increase in smoking (Table 1). Overall, 39.3% of men and 28.9% of women surveyed were current regular cigarette smokers** in 1975, compared with 42.2% and 30.5%, respectively, in 1970 and 52.4% and 32.5%, respectively, in 1964/66.

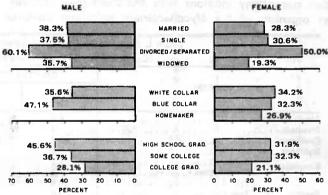
TABLE 1. Percentage of current regular smokers — United States. 1975

| | 1964/66 | 1970 | 1975 | | | | | |
|-----------------|------------|-------|------|--|--|--|--|--|
| Age Group | MEN | | | | | | | |
| 21-24 | 64.3 | 49.8 | 41.3 | | | | | |
| 25-34 | 59.9 | 46.7 | 43.9 | | | | | |
| 35-44 | 59.9 | 48.6 | 47.1 | | | | | |
| 45-54 | 53.5 | 43.1 | 41.1 | | | | | |
| 55-64 | 49.2 | 37.4 | 33.7 | | | | | |
| 65+ | 28.8 | 22.8 | 24.2 | | | | | |
| All age groups, | | | | | | | | |
| 21 and over | 52.4 | 42.2 | 39.3 | | | | | |
| | diam'r pli | WOMEN | | | | | | |
| 21-24 | 45.2 | 32.3 | 34.0 | | | | | |
| 25-34 | 42.6 | 40.3 | 35.4 | | | | | |
| 35-44 | 39.9 | 38.8 | 36.4 | | | | | |
| 45-54 | 39.9 | 36.1 | 32.8 | | | | | |
| 55-64 | 20.5 | 24.2 | 25.9 | | | | | |
| 65+ | 7.7 | 10.2 | 10.2 | | | | | |
| All age groups, | | | | | | | | |
| 21 and over | 32.5 | 30.5 | 28.9 | | | | | |

Differences in smoking behavior also were found by marital status and by occupational and educational levels (Figure 1). Married men and women smoke less than single,

divorced/separated, and/or widowed persons, the survey showed. In terms of education, smoking is most common among male high school graduates, 45.6% of whom reported smoking, and lowest among female college graduates, 21.1% of whom smoke.

FIGURE 1. Percentage of adults* who smoke, by marital status, occupation, and educational level, 1975



*ADULT SMOKER WAS DEFINED AS ONE 21 YEARS OF AGE OR OLDER

Men smoke more cigarettes a day, averaging 23 (about the same as in 1970), compared to 19 for women (up from 17 in 1970). The survey also found that more than half of current smokers smoke cigarettes in ways most hazardous to health, that is, by inhaling with almost every puff (55%).

Most persons who continue to smoke are smoking lower tar, lower nicotine cigarettes than in previous years. In 1975, 20% of smokers reported using a cigarette with 20 or more milligrams of tar, down from 55% in 1970. The proportion using cigarettes with nicotine levels of 1.4 mg. and above dropped from 45% in 1970 to 18% in 1975.

Most current smokers—61%—have made at least one serious attempt to stop smoking entirely. Overall, 9 out of 10 smokers say they have either tried to stop smoking or would probably do so if there were an easy way. Although a majority of smokers apparently would like to stop, 57% say they will either definitely or probably be smoking 5 years from now.

Other attitudinal findings among survey respondents included:

1: 70% stated that cigarette smoking should be allowed

^{*1964} and 1966 survey figures were combined.

^{**}Current regular smoker — A person who has smoked at least 100 cigarettes during his lifetime and who now smokes cigarettes.

Cigarette Smoking — Continued

in fewer places than it is now. Among smokers alone, 51% shared this opinion.

- 2. 56% of all respondents believed that cigarette advertising should be stopped completely. (Cigarette commercials were banned from electronic media in 1970.)
- 3. 78% thought that management should have the right to prohibit smoking in places of business.

4. More than 3 out of 4 persons indicated that teachers, doctors, and other health professionals should set an example by not smoking. Two of every 3 smokers agreed.

Reported by the National Clearinghouse for Smoking and Health, Bur of Health Education, CDC.

A copy of the report from which these data were derived is available from Center for Disease Control, National Clearinghouse for Smoking and Health, Bureau of Health Education, Building 14, Atlanta, GA. 30333. Information is also available from the Office of Cancer Communications, National Cancer Institute, Bethesda, MD. 20014.

Epidemiologic Notes and Reports

Atypical Mycobacteria Wound Infections — North Carolina, Colorado

Outbreaks of postoperative wound infections caused by the Mycobacterium fortuitum complex have recently been reported by hospitals in North Carolina and Colorado. Twenty-four patients who recently had had open-heart surgery developed infections—the first such outbreaks reported to CDC. The source of contamination is not yet known; the investigations are continuing.

North Carolina

Nineteen of the 80 patients who underwent open-heart surgery in the period February 13-April 29, 1976, at a North Carolina hospital developed infections of their median sternotomy incisions with Mycobacterium chelonei, an organism of the Mycobacterium fortuitum complex

(Runyon Group IV, rapid-grower). The patients ranged in age from 42 to 66 years (median 57); all had had surgery for either coronary artery by-pass grafts or prosthetic valve replacement. Six of 35 (17%) patients operated on in March and 12 of 24 (50%) patients operated on in April developed infections. No cases have occurred in patients operated on since April 29. The onset of infection occurred 6 to 40 days after surgery (median 14 days), and was characterized by sternal pain or drainage from the incision. In many cases, the patient had been discharged in good condition following surgery, but returned after a few weeks when sternal pain or drainage began. Redness over the sternum was noted (Continued on page 243)

Table I. Summary—Cases of Specified Notifiable Diseases: United States

| The state of the s | 30th W | EEK ENDING | A THE PART OF | CUMI | CUMULATIVE, FIRST 30 WEEKS | | | | |
|--|------------------|------------------|---------------------|------------------|----------------------------|--------------------|--|--|--|
| DISEASE | July 31, 1976 | July 26, 1976 | MEDIAN 1971-1975 | July 31, 1976 | July 26, 1975 | MEDIAN 1971-197 | | | |
| Aseptic meningitis | - 66 | 78 | 103 | 1,214 | 1,433 | 1,407 | | | |
| rucellosis | 7 | 13 | 4 | 139 | 133 | 97 | | | |
| hickenpox | 480 | 890 | | 144,930 | 114,709 | | | | |
| iphtheria | 1 | 1 | 2 | 118 | 197 | 110 | | | |
| ncephalitis Primary | 11 | 18 | 22 | 453 | 408 | 490 | | | |
| Post-Infectious | 4 | 11 | 7 | 167 | 197 | 182 | | | |
| (Type B | 283 | 291 | 191 | 8,438 | 6,514 | 5,344 | | | |
| opatitis, Viral < Type A | 636 | 625 | 914 | 20,052 | 20,162 | 29,200 | | | |
| Type unspecified | 141 | 142 | | 5,146 | 4,645 | , - 1, - 55 | | | |
| alaria | 14 | 9 | 9 | 241 | 218 | 218 | | | |
| easles (rubeola) | 385 | 227 | 268 | 33,537 | 20,466 | 23,429 | | | |
| eningococcal infections, total | 22 | 23 | 23 | 1,047 | 949 | 949 | | | |
| Civilian | 22 | 23 | 23 | 1,038 | 928 | 928 | | | |
| Military | | - | 1 3 | 9 | 21 | 24 | | | |
| umps | 224 | 554 | 525 | 31,359 | 44,831 | 52,908 | | | |
| rtussis | 29 | 47 | | 522 | 768 | | | | |
| ubella (Garman messies) | 49 | 106 | 164 | 10.324 | 14,380 | 19,821 | | | |
| etanus | 2 | 4 | 4 | 29 | 48 | 48 | | | |
| uberculosis | 745 | 630 | | 19.465 | 18,956 | | | | |
| ularemia | 1 | 4 | 4 | 77 | 71 | 84 | | | |
| yphoid fever | 7 | 9 | 8 | 204 | 175 | 179 | | | |
| yphus, tick-borne (Rky. Mt. spotted fever) enereal Disseses: | 54 | 55 | 27 | 461 | 451 | 386 | | | |
| Gonorrhea (Civilian | 21,193 | 22.094 | | 563,651 | 551,654 | | | | |
| (Military | 681 | 680 | | 16,439 | 17,042 | | | | |
| Syphilis, primery and secondary (Civilian | 461 | 559 | | 13,990 | 14,633 | | | | |
| (Military | 14 | 8 | | 207 | 198 | | | | |
| lebies in animals | 63 | 81 | 76 | 1.502 | 1.465 | 2, 155 | | | |

Table II. Notifiable Diseases of Low Frequency: United States

| | CUM. | THE TREATMENT AT A STATE OF THE PARTY OF THE | GUM. |
|---|---------------------|--|-------------------|
| Anthrax: Botulism: Congenital rubella syndrome: Leprosy: Texas 1 Leptospirosis: | 2 19 15 82 | Poliomyelitis, total: Paralytic:** Psittacosis: Calif. 1 Rabies in man: Trichinosis: R.I. 1 | 5 5 28 1 |
| Plague: N. Mex. 1, Ariz. 1 | 12 | Typhus, murine: Texas 3 | |

Table III

Cases of Specified Notifiable Diseases: United States Weeks Ending July 31, 1976 and July 26, 1975 - 30th Week

| Term River | ASEPTIC MENIN- | | CHICKEN- | | | | NCEPHALIT | Post In- | inc. | PATITIS, V | | MALARIA | | |
|------------------------------|-------------------|---------------|----------|-------|--------------|--------|--|----------|----------|------------|---------------------|---------|-------------|--|
| AREA REPORTING | GITIS | LOSIS 1976 | POX | DIFAI | | | Primary: Arthropod- borne and Unspecified | | Туре В | Type A | Type Unspecified | MAI | , eth | |
| A1 - A1 | 1976 | | 1976 | 1976 | CUM. 1976 | 1976 | 1975 | 1976 | 1976 | 1976 | 1976 | 1976 | CUN 1970 | |
| UNITED STATES | 66 | 7 | 480 | 1 | 118 | 11 | 18 | 4 | 283 | 636 | 141 | 14 | 241 | |
| EW ENGLAND | . 2 | - | 80 3 | _ | - | 1 | 2 | - | 3 | 17 | 16 1 | 1 | 12 | |
| Maine | 1 | - | 1 | - | - | - | | - | - | | - | - | - | |
| New Hampshire | - | - | 2 | - | - | - | - | - | - | - | 1 | - | - | |
| Vermont | - | - | 58 | • | - | 1 | 1 | | - | 6 | 13 | 1 | 6 | |
| Rhode Island | 1 | - | 10 | - | - | - | - | - | 1 | 2 | - | - | 3 | |
| Connecticut * | - | - | 6 | - | - | - | 1 | - | 2 | 7 | 1 | - | 3 | |
| IIDDLE ATLANTIC | 16 | 1 | 71 | - | - | 1 | 1 | - | 60 | 58 | 23 | 7 | 47 | |
| Upstate New York | 5 | 1 | 41 | - | - | - | 1 | - | 8 | 14 | 2 | 1 | 10 | |
| New York City | 1 | - | 29 | - | | | - | - | 23 | 20 | - | 2 | 19 | |
| New Jersey | 10 | - | NN | - | 100 | 1 | | - | 18 11 | 16 8 | 19 | 4 | 9 | |
| Pennsylvania | _ | - | 1 | - | | 175 | _ | | 11 | ٥ | 2 | - 2 | 9 | |
| AST NORTH CENTRAL | 6 | | 177 | - | - | 3 | 2 | 1 | 29 | 73 | 11 | - | 16 | |
| Ohio | - | - | 20 | 7407 | | - | 1 | - | 6 | 13 | | - | 7 | |
| Indiana | ī | _ | 16 | - | - | | - | | 2 | 1 7 | * 2 | - | | |
| Illinois | 4 = | | 16 | - | - | 3 | ī | - | 10 8 | 17 32 | 7 2 | _ | 2 | |
| Michigan* | ī | _ | 81 | - | - | - | - | 1 | 3 | 10 | - | _ | 1 | |
| Wisconsin | 500 | | | | | | | | | | | | | |
| EST NORTH CENTRAL | - | 1 | 36 | | 4 | - : | 2 | 2 | 15 10 | 31 11 | 10 | | 14 | |
| Minnesota | - | - | 10 | | | - | | | 10 | 3 | | - 5 | 3 | |
| lows | - | _ | 4 | - | 1 | - | | - | 3 | 9 | 10 | - | 8 | |
| Missouri * | - | - | 5 | - | _ | - | 2 | - | - | i | | - | - | |
| North Dakota South Dakota | - | - | - | - | 3 | - | - | - | - | 7 | - | - | 2 | |
| Nebraska | - | | 17 | - | | - | | - | 2 | - | - | | 1 | |
| Kansas | - | • | - | - | - | - | • | | - | • | - | - | _ | |
| | 8 | 1 | 43 | - | | 2 | 1 | - | 52 | 100 | 27 | - | 38 | |
| DUTH ATLANTIC | - | - | 6 | - | - | - | - | - | 1 | - | | - | | |
| Delaware | - | - | 2 | - | - | - | - | - | 11 | 6 | 1 | - | 5 | |
| District of Columbia | - | - | 4 | - | - | - | - | - | - | - | - | | 5 | |
| Virginia | - | 1 | - | - | - | | - | - | 2 | 1 | 4 | - | 8 | |
| West Virginia | | | 11 NN | - | 1 2 | | - E | = | 10 | 3 8 | 2 | | 1 4 | |
| North Carolina * | | _ | 1 | - 2 | _ | | - 5 | - | 10 | ů | 3 | 200 | ï | |
| South Carolina | - | - | - | - | | - | - | - | - | 24 | - | - | 4 | |
| Georgia | 8 | - | 19 | - | - | 2 | 1 | - | 24 | 57 | 17 | - 1 | 10 | |
| | 5 | 1 | 11 | _ | - | 1 | 5 | 2 | 10 | 37 | 2 | _ | 1 | |
| AST SOUTH CENTRAL | - | - | 10 | - | | - | | - | 2 | 7 | i | | - | |
| Kentucky | 2 | 1 | NN | - | - | - | 2 | - | 5 | 17 | 1 | - | - | |
| Alabama | 3 | - | 1 | - | - | 1 | 2 | 1 | 3 | 5 | - | - | - | |
| Mississippi | - | - | - | - | ц - | -11 | 1 | 1 | - | В | | - | 1 | |
| EST SOUTH CENTRAL | 9 | 1 | 35 | - | 1 | - | 3 | - | 14 | 26 | 10 | | 9 | |
| /EST SOUTH CENTRAL | - | - | - | - | - | - | - | - | - | 5 | 2 | - | - | |
| Louisiana* | 6 | - | * NN | - | - | - | 1 | - | 4 | 8 | - | - | 1 | |
| Oklahoma | - | | 9 | 4 | | • | 2 | - | 5 | 13 | 3 | - | 1 | |
| Texas * | 3 | 1 | 26 | - | 1 | | • | - | 5 | - | 5 | - | 7 | |
| IOUNTAIN | 1 | - | 8 | 1 | 4 | 1 | - | - | 11 | 34 | 10 | 2 | 10 | |
| Montana | NA | NA | NA | NA | | NA | - | - | NA | NA | NA | NA | - | |
| Idaho | _ | - | 1 | | 811 . | - | - | - | - | | 1 | | - | |
| Wyoming | ĩ | _ | 5 | - | 3 | ī | -31 | _ | 7 | 9 | 7 | 2 | 7 | |
| Colorado | - | _ | 2 | ī | 1 | [] - I | - | _ | - | 5 | | - | í | |
| New Mexico | _ | | NN | - | | - | - | _ | 3 | 14 | 2 | _ | î | |
| Utah | - | - | 2 | - | | | - | - | 1 | 5 | - | - | - | |
| Nevada | - | - | | - | | - | - | - | - | 1 | - | - | 1 | |
| | 19 | 2 | 19 | | 109 | 2 | 2 | 1 | 89 | 260 | 32 | 4 | 94 | |
| ACIFIC | | - | îi | 44 | 106 | - | | - | 1 | 1 | 3 | - | 2 | |
| Oragon | - | - | - | - | | - | - | - | 7 | 13 | 6 | - | 5 | |
| California | 19 | 2 | | 11. | 1 | 2 | 1 | 1 | 77 | 119 | 23 | 4 | 86 | |
| Alaska | | - | 1 7 | | 2 | - | | 345 | 1 | 121 | - | | 100 | |
| Hawaii | | | F | | 4 | | 1 | | 3 | 6 | | - | 1 | |
| | _ | | - | | _ | - | _ | | | | | | | |
| luam * | - | _ | 16 | - | 1 | | 1.0 | | 2 | 10 | | 1 | ī | |
| Puerto Rico | | | | | | | | | | | | | | |

NA: Not available
*Delayed reports: TB: Mich. delete 2, Mo. delete 1, N.C. delete 4, Ark. delete 2, Guam add 1; RMSF: Conn. add 1, Ala. delete 1; G.C.: S.D. delete 1, La. delete 15, Guam add 11, V.I. add 3; Syphilis: Mo. delete 1, La. delete 8, V.I. add 1; An. rabies: S.D. add 39, Texas add 8

Table III-Continued Cases of Specified Notifiable Diseases: United States

Weeks Ending July 31, 1976 and July 26, 1975 - 30th Week

| 110 | ME | ASLES (Rubeo | la) | MENINGO | COCCAL INS | ECTIONS | MU | MP8 | PERTUSSIS | RUBE | LLA | TETANI |
|--|------------|----------------|----------------|---------|------------|----------|--------|----------------|-----------|------|----------------|-------------|
| REPORTING AREA | CUMULATIVE | | | 1075 | CUMUL | ATIVE | 4035 | CUM. | 1075 | 407- | CUM. | CUM. |
| The state of the s | 1976 | 1976 | 1975 | 1976 | 1976 | 1976 | 1976 | 1976 | 1976 | 1976 | 1976 | 1976 |
| UNITED STATES | 385 | 33,537 | 20,466 | 22 | 1,047 | 949 | 224 | 31,359 | 29 | 49 | 10,324 | 29 |
| NEW ENGLAND | 3 | 373 | 289 | - | 42 | 55 | 21 | 1,235 | : | - 1 | 269 | 1- |
| Maine | | 11 | 11 | | 3 | 6 2 | | 109 25 | | | 3 11 | |
| Vermont | 2 | 32 | 49 | - | 3 | - | - | 8 | - | - | 1 | - |
| Messachusetta | | 37 14 | 107 | - 110 | 12 | 18 3 | 1 8 | 148 436 | | 1 | 135 5 | |
| Rhode Island | 1 | 273 | 99 | - | 20 | 26 | _ | 509 | - | = | 114 | |
| MIDDLE ATLANTIC | 75 | 6.862 | 1.653 | 4 | 142 | 97 | 62 | 2,877 | 2 | 5 | 2,250 | 3 |
| Upstate New York | 16 | 2,874 | 509 | : | 57 | 28 | 1 | 359 | - | 3 | 596 | 2 |
| New York City | 5 | 435 586 | 129 456 | 2 2 | 37 19 | 28 16 | 41 | 1,518 480 | 2 | 1 | 137 1,327 | |
| New Jersey Pennsylvanie | 54 | 2,967 | 559 | | 29 | 25 | | 5 20 | | 1 | 190 | 1 |
| EAST NORTH CENTRAL | 210 | 14,189 | 6,091 | 2 | 162 | 1 30 | 59 | 13,083 | 6 | 17 | 3,849 | 1 |
| Ohio | 7 | 562 | 104 | - | 84 | 31 | | 1,876 | 1 | - | 272 | ĩ |
| Indiana | 121 | 3,227 | 345 | 1 | 6 16 | 6 19 | 4 8 | 1,410 | | 4 9 | 684 | - |
| Illinois | 42 20 | 1,498 5,597 | 1,687 2,980 | i | 47 | 56 | 6 | 1,731 4,791 | 3 | 2 | 1,153 1,346 | |
| Wisconsin | 27 | 3,305 | 975 | - | 9 | 18 | 32 | 3,275 | ž | 2 | 394 | |
| WEST NORTH CENTRAL | Firm | 1,095 | 4,939 | - | 62 | 55 | 6 | 3,227 | - | 1 | 378 | 4 |
| Minnesota | | 388 32 | 180 560 | | 12 | 14 | ī | 543 | | - | 26 81 | 1 |
| lowe | - 3 | 17 | 258 | | 22 | 25 | | 1,144 308 | | 1 | 30 | 1 |
| North Dekota | - | 3 | 1,046 | - | 3 | - | _ | 121 | - | - | 2 | ī |
| South Dakota | - | 4 | 356 | • | 1 | 1 | - | 6 | - | - | 18 | (d. 6) |
| Nebraska | | 55 596 | 394 2,145 | | 13 | 2 8 | 1 | 98 1,007 | pel fit | • - | 3 218 | ī |
| SOUTH ATLANTIC | 15 | 2,214 | 275 | A | 193 | 194 | 21 | 2,375 | 8 | 5 | 1,259 | -a-167 |
| Delaware | | 128 | 35 | - | 6 | 6 | 2 | 43 | - | 2 | 33 | |
| Meryland | | 829 | 41 | | 16 | 21 5 | 7 | 639 100 | | - : | 3 | 2 |
| District of Columbia Virginia | 8 | 12 730 | 23 | | 23 | 17 | | 188 | 1 | ī | 45 233 | 1 |
| West Virginia | 3 | 1 83 | 131 | 1 | 6 | 5 | 7 | 734 | • | | 277 | |
| North Cerolina | - | 9 | 2 | = = | 36 | 36 31 | 1 2 | 369 39 | 1 | - 1 | 17 | - : |
| South Carolina | - 1 | | 17 | 2 | 34 19 | 10 | | - 37 | 1 | ī | 590 2 | Treating to |
| Florida | 4 | 318 | 25 | ī | 51 | 63 | 2 | 263 | 5 | ī | 59 | 4 |
| EAST SOUTH CENTRAL | 10 | 793 | 267 | 3 | 90 | 145 | 17 | 2,649 | 2 | - | 334 | 4 |
| Kentucky | 3 | 734 | 83 173 | 1 | 14 | 59 47 | 13 | 937 | 1 | - | 150 172 | 1 |
| Tennessee | 6 | 43 | 173 | i | 25 | 27 | 2 | 1,413 250 | | | 1/2 | 2 |
| Mississippi | 1 | 16 | 8 | 1 | 11 | 12 | | 49 | 1 | - | 11 | 100 |
| WEST SOUTH CENTRAL | 6 | 665 | 272 | 2 | 160 | 148 | 19 | 2,190 | 3 | 4 | 488 | 7 |
| Arkenses | - | 185 | | 1 | 10 28 | 8 25 | 2 | 71 22 | 1 | - | 189 85 | 2 |
| Citiahoma | 1 | 289 | 125 | 1 | 18 | 9 | 3 | 620 | i | | 58 | - |
| Texas | 4 | 191 | 147 | . · | 104 | 106 | | 1,477 | | 4 | 156 | 5 |
| MOUNTAIN | 8 | 5,053 | 1,330 | 1 | 37 | 34 | 150 | 1,074 | 1 | | 461 | 1 |
| Montana | NA | 202 | 41 | | 4 | 7 | NA | 20 | NA | NA | 232 | - |
| Idaho | | 2,020 | - 1 | end - | 4 | 5 | | 440 | 14-10 | | 18 2 | |
| Colorado | 6 | 305 | 1,115 | - | 11 | 9 | 4 | 213 | - | | 21 | - |
| New Mexico | - | 15 | 13 | 1 | 3 | . 4 | | 127 | 1 | - | 31 | |
| Arizona | 2 | 2.220 | 69 59 | 1 | 9 | 7 | | 159 | | | 139 | 1 |
| Neveds | - 4 | 63 | 25 | m - | 2 | i | -5- | 114 | - 1.7% | upe | 18 | - |
| PACIFIC | 58 | 2,293 | 5,350 | 6 | 159 | 91 | 15 | 2,649 | 7 | 16 | 1,036 | 2 |
| Washington | 7 | 333 150 | 284 195 | ī | 27 14 | 16 4 | 4 | 842 334 | 1 | 2 | 161 130 | 1 |
| Oregon | 47 | 1,807 | 4,809 | 4 | 101 | 70 | 11 | 1, 429 | 2 | 10 | 727 | i |
| Aleske | - | 3 | 62 | 1 | 14 | | 7 -6-1 | 19 25 | 864 | - | 17 | - 11 |
| | | 3 | 62 | | 3 | | | | | | | |
| 3uem * | - | 10 | 31 | | 1 | 2 | | 12 | - | | 5 | |
| Puerto Rico | 5 | 298 | 493 | 7.5 | 3 | 1 | 4 | 615 | • | - | 8 | 3 |
| Virgin Islands | - | 8 | 8 | - | - | - | _ | 22 | • | - | 8 | 1 |

NA: Not available
*Delayed Reports: Messies: Guam add 2, V.I. add 1; Men. Inf.: Mo. add 1; Mumps: Guam add 1; Pertussis: Mo. add 1

MORBIDITY AND MORTALITY WEEKLY REPORT

Table III-Continued

Cases of Specified Notifiable Diseases: United States Weeks Ending July 31, 1976 and July 26, 1975 - 30th Week

| | | THE | ACULOSIS | TULA | HOID | TYPHU8 | FFEVER BORNE | | | SEASES (Civilla | | | | RABIES | | | |
|----------------|-------------------------|----------|--------------|------------|--------|---------|-----------------|--------|--------------|------------------|-------------------|-----------|--------------|--------------|---------------|---------|-------|
| REPORTING AREA | | | | | | REMIA | 1 1 | VER | | 18F) | | GONORRHEA | | 8YI | HILIS (Pri. I | k Sec.) | ANIMA |
| | REPUBLING AREA | | CUM. | CUM. | | CUM. | | CUM. | 4000 | CUMULA | LIVE | | CUMUL | ATIVE | CUM. | | |
| | | 1976 | 1876 | 1978 | 1978 | 1976 | 1978 | 1976 | 1976 | 1976 | 1976 | 1976 | 1976 | 1975 | 1976 | | |
| | UNITED STATES | 745 | 19,465 | 77 | 7 | 204 | 54 | 461 | 21,193 | 563,651 | 551,654 | 46 1 | 13,990 | 14,633 | 1,502 | | |
| | NEW ENGLAND | 19 | 694 | 1 | - | 17 | 1 | 6 | 712 | 15,477 | 15,155 | 33 | 430 | 509 | 26 | | |
| | Maine * | 2 | 46 | • | - | - | - | | 52 | 1,304 | 1,115 | 2 | 10 | 12 11 | 14 | | |
| | New Hampshire | 1 | 27 18 | | _ | 2 | | _ | 16 10 | 420 381 | 427 355 | ī | 5 | 5 | 1111 | | |
| | Vermont | 10 | 426 | 1 | - : | 13 | _ | 4 | 376 | 7,489 | 7,007 | 18 | 306 | 324 | 11 | | |
| | Rhoda Island | 1 | 47 | - | - | - | 1 | 2 | 31 | 1,015 | 1,211 | | 15 | 9 | 1 | | |
| | Connecticut | 5 | 1 30 | - | - | 2 | - | - | 227 | 4,868 | 5,040 | 12 | 87 | 148 | 4 | | |
| | MIDDLE ATLANTIC | 121 | 3,685 | 2 | 1 | 33 | 11 | 26 | 1,924 | 65,075 | 63,933 | 77 | 2,327 | 2,665 | 19 | | |
| | Upstate New York | 9 | 565 | 2 | - | 5 | 11 | 15 | 498 | 10,183 | 11,355 | 1 | 1 42 | 252 | | | |
| | New York City | 69 29 | 1,550 697 | - : | 1 | 18 7 | - 1 | 3 7 | 738 168 | 29,727 9,693 | 27,568 8,716 | 40 | 1,429 353 | 1,519 | -11 | | |
| | New Jarsey | 14 | 873 | - | - | 3 | | xa i | 520 | 15,472 | 16,294 | 16 | 403 | 477 | 1 | | |
| | APT NODTH CENTRAL | 107 | 2.703 | 1 | 2 | 18 | | 7 | 3,229 | 88.977 | 89, 851 | 20 | 1,255 | 1,200 | 8 | | |
| Ŀ | EAST NORTH CENTRAL Ohio | 11 | 503 | | | 6 | | Ś | 553 | 21,697 | 24,391 | 8 | 291 | 277 | | | |
| | Indiana | 8 | 333 | - | - | - | - | _ | 453 | 8,854 | 8,131 | 4 | 64 | 79 | | | |
| | Illinois | 42 | 914 | 1 | 2 | 5 | - | 1 | 1.007 | 31,264 | 31,029 | 1 | 692 | 583 | 1 | | |
| | Michigan Wisconsin | 39 7 | 795 158 | | - | 6 | | 2 | 809 407 | 18,694 8,468 | 17,552 8,748 | 5 2 | 143 65 | 204 57 | 4 | | |
| | | | | | | | | | | | | | 238 | 342 | 36 | | |
| 'n | VEST NORTH CENTRAL | 34 3 | 703 127 | 19 3 | - | 11 | - | 7 | 1,091 277 | 29,161 5,319 | 27, 205 5, 764 | 14 | 238 55 | 69 | 9 | | |
| | lows | 6 | 59 | i | _ | ì | | | 173 | 3,684 | 3,786 | - | 23 | 20 | . 7 | | |
| | Missouri * | 16 | 349 | 14 | - | 3 | - | 7 | 272 | 11,544 | 9,736 | 6 | 99 | 180 | | | |
| | North Dakota | 5 | 20 | - | - | - | | - | 34 | 435 | 419 | - | | 5 | | | |
| | South Dakota | 41 | 31 36 | | - | | | | 27 109 | 817 2,555 | 1,030 2,380 | | 18 | 8 | i i | | |
| | Nebreska | 3 | 81 | 1 | | 1 | - | - | 199 | 4,807 | 4,090 | | 39 | 56 | 4 | | |
| | OUTH ATLANTIC | 137 | 4,254 | 5 | _ | 24 | 28 | 243 | 5,364 | 136.754 | 136,813 | 123 | 4,133 | 4.576 | 23 | | |
| | Delaware | i | 47 | - | - | | | 1 | 148 | 1,851 | 1,857 | - | 39 | 54 | | | |
| | Maryland | 29 | 610 | 1 | - | - | - | 12 | 642 | 18,284 | 15,842 | . 2 | 348 | 341 | 1 | | |
| | District of Columbia | . 2 | 178 702 | ī | | 3 | 5 | 63 | 281 667 | 8,098 14,315 | 8,179 13,305 | | | 396 343 | 3 | | |
| | Virginia | 18 | 175 | - | | 3 | - | 2 | 57 | 1,763 | 1,673 | | 18 | 14 | | | |
| | North Carolina | 30 | 755 | 3 | - | ĩ | 18 | 108 | 737 | 19,722 | 19,393 | | 776 | 573 | | | |
| | South Carolina | - | 316 | - | - | 3 | 5 | 32 | 176 | 12,907 | 13,070 | | 227 | 308 | | | |
| | Georgia | 11 | 521 950 | | - | 2 12 | | 24 | 1,349 | 25,873 33,941 | 25,518 37,976 | | | 602 1,945 | | | |
| | EAST SOUTH CENTRAL | 72 | 1,609 | 13 | | 7 | 6 | 74 | 2,061 | 50,000 | 46,556 | 21 | 567 | 647 | 7 | | |
| • | Kentucky | 1 | 346 | i | _ | 4 | 3 | 13 | 284 | 6,299 | 6,063 | | 83 | 101 | | | |
| | Tennessee | 26 | 485 | 12 | - | 3 | 2 | 48 | 942 | 19,629 | 18,571 | | | | | | |
| | Alabama | 26 | 486 292 | | - | - | ī | 5 8 | 552 283 | 14,414 9,658 | 12,656 9,266 | | 111 169 | 150 157 | | | |
| | Mississippi | 19 | | | _ | | 100 | | | | | | | | | | |
| ¥ | VEST SOUTH CENTRAL | | 2,217 | 26 | • | 9 | 7 | 90 | 2,794 | 73,769 | 68,739 | | | 1,262 | | | |
| | Arkentes | 12 | 287 318 | 12 | _ | 2 | 2 | 14 | 415 510 | 7,039 10,941 | 7,246 12,515 | | | 35 300 | | | |
| | Oklahoma | 9 | 205 | 7 | _ | - | 3 | 69 | 303 | 6,924 | 6,471 | | | | | | |
| | Texas | 77 | 1,407 | 5 | - | 5 | 2 | 7 | 1,566 | 48,865 | 42,507 | | 1,178 | 8 80 | 14 | | |
| N | OUNTAIN | 11 | 539 | 2 | - | 18 | 1 | 3 | 931 | 21,705 | 21,409 | | 470 | 350 | | | |
| | Montana | NA | 30 | 2 | NA | 2 | NA | - | NA | 1,103 | 1,167 | | | en lasti 4 | | | |
| | Idaho * | - | 16 | - | - | 1 | | 1 | 62 | 1,164 | 1,020 | | 23 8 | 9 | | | |
| | Wyoming | | 11 97 | | | - | ī | ī | 17 253 | 433 5,624 | 505 5,268 | | _ | 63 | | | |
| | New Mexico | 2 | 94 | | | ī | | i | 194 | 4,343 | 3,911 | | | 99 | | | |
| | Arizona | 9 | 245 | - | - D | 9 | - | - | 284 | 6,379 | 5,862 | . 8 | 142 | | | | |
| | Utah | - 1 | 23 23 | | urs vo | 1 | - 1 | - : | 95 26 | 1,073 1,586 | 1,361 2,315 | | | | | | |
| | | 17 | | | | 100 | | | | | | | | | | | |
| ì | ACIFIC | 138 | 3,061 297 | 8 | 4 | 67 3 | 9 145 - | 5 | 3,087 299 | 82,733 6,963 | 81,993 7,404 | | | | | | |
| | Oregon | 10 | 112 | í | | | | 100 | 349 | 6,154 | 6, 023 | | 62 | | | | |
| | California | 97 | 2,219 | 5 | 3 | 62 | - | 1 | 2,359 | 65,732 | 65,020 | 75 | 2,709 | 2,881 | 14 | | |
| | Alaska | 13 | 61 | - | - | - | - | - 1 | 27 | 2,283 | 2,047 | | | | | | |
| | Haweii | 10 | 372 | | 1 | 2 | - | | 53 | 1,601 | 1,499 | 130 | 62 | 32 | 4.5 | | |
| 1 | Guam * | SITE | 26 | - X | | | - | lie - | | 181 | 260 | 146 | Park | | V | | |
| | Puerto Rico | 11 | 202 | 11/2 | 1 | 1 | - | 10 | 59 | 1,593 | 1,44 | 4 | 340 | 361 | | | |
| | Virgin Islands | | 5 | | | | _ | _ | | 142 | 91 | | 41 | 20 | 1 | | |

NA: Not available NN: Not notifiable
*Delayed reports: Asap. Mang.: La. delete 1; Brucellosis: Wash. delete 1; Chickenpox: Me. add 3, Calif. add 7, Guam add 3; Enceph., post: Wisc. add 2; Hep. A: Mo. delete 1, La. delete 2, Ariz. add 2; Hep. Unsp.: Mo. delete 1, Ariz. delete 2, Idaho add 1, Guam add 1

Table IV Deaths in 121 United States Cities*

Week Ending July 31, 1976 - 30th Week

| | | A | LL CAUS | ES | _ | monia | | | ALL CAUSES | | | | | |
|-------------------------------|-------------|----------------------|----------------|----------------|-----------------|---------------------------------|--|--------------|----------------------|----------------|----------------|-----------------|----------------------|--|
| REPORTING AREA | ALL AGES | 65 Years and Over | 45-84 Years | 25-44 Years | Under 1 Year | and Influenza ALL AGES | REPORTING AREA | ALL AGES | 65 Years and Over | 45-64 Years | 25-44 Years | Under 1 Year | Influe ALI AGE | |
| NEW ENGLAND | 604 | 363 | 164 | 30 | 27 | 30 | SOUTH ATLANTIC | 1,118 | 606 | 332 | 83 | 34 | 36 | |
| Boston, Mass | 166 | 86 | 56 | 10 | 6 | 9 | Atlanta, Ga | 144 | 66 | 50 | 16 | 8 | | |
| Bridgepart, Conn | 32 | 18 | 13 | 1 | - | 4 | Baltimore, Md | 213 | 110 | 66 | 18 7 | 6 | | |
| Cambridge, Mass. | 24 | 19 | 3 7 | 2 | = | 2 | Charlotte, N. C Jacksonville, Fla | 76 99 | 30 53 | 27 24 | ź | 3 | | |
| Fall River, Mass | 26 54 | 19 28 | 12 | 6 | 8 | - | Miami, Fla. | 104 | 71 | 21 | 5 | 2 | | |
| Lowell, Mass | 21 | 15 | 5 | | i | 2 | Norfolk, Va | 59 | 29 | 21 | 3 | 3 | | |
| Lynn, Mass | 29 | 18 | 8 | _ | - | 2 | Richmond, Va | 83 | 42 | 28 | 5 | 2 | | |
| New Bedford, Mass | 13 | 9 | 1 | 1 | 1 | - | Savannah, Ga. | 31 | 19 | 9 | 1 | 1 | | |
| New Haven, Conn | 38 | 24 | 7 | 1 | 4 | - | St. Petersburg, Fla | 69 | 60 | 8 | 1 | - | | |
| Providence, R.J | 67 | 38 | 18 | 3 | 4 | 2 | Tampa, Fla | 62 136 | 30 71 | 24 42 | 11 | 1 4 | , | |
| Springfield, Mass. | 45 | 27 | 2 14 | 2 | 2 | 1 | Wilmington, Del | 42 | 25 | 12 | 3 | i | - | |
| Waterbury, Conn | 24 | 18 | 3 | 2 | i | 4 | | | 201 | | • | WE | | |
| Warcester, Mass | 56 | 40 | 15 | ī | - 11 | 4 | | | | | | | | |
| 100 | | · | | 11/11/11 | | | EAST SOUTH CENTRAL | 664 | 365 | 185 | 61 | 24 | 2 | |
| | | | | | | | Birmingham, Ala | 122 | 67 | 39 | 10 | 2 | - | |
| WIDDLE ATLANTIC | 2,711 | | 752 | 185 | 97 | 121 | Chettanooga, Tenn | 52 | 22 | 15 | 9 | 1 | | |
| Albany, N. Y. | 47 | 26 | 13 | 4 | 3 | 1 | Knoxville, Tenn | 42 | 32 59 | 6 | 1 | 5 | | |
| Allentown, Pa | 19 | 15 | 39 | 6 | 6 | 2 8 | Louisville, Ky | 1 13 1 39 | 70 | 31 40 | 13 12 | 9 | | |
| Camden, N. J. | 134 | 80 17 | 9 | 2 | - | - | Memphis, Tenn Mobile, Ala | 73 | 43 | 19 | 7 | 4 | | |
| Elizabeth, N. J. | 23 | 14 | 8 | - | _ | | Montgomery, Ala | 40 | 27 | ió | ż | ī | | |
| Erie, Pa | 30 | 22 | 4 | 2 | 1 | 1 | Nashville, Tenn | 83 | 45 | 25 | 7 | 2 | | |
| Jersey City, N. J. | 57 | 35 | 16 | 3 | - | 2 | | | | | | | | |
| Newerk, N. J | 42 | 17 | 12 | - 5 | 4 | 4 | | | 24 | | | | | |
| New York City, N. YT. | | 804 | 3 86 | 105 | 41 | 53 | WEST SOUTH CENTRAL | 1,127 | 638 | 282 | 81 | 59 | 1 | |
| Paterson, N. J. | 35 | 19 | 11 | 2 | 3 | 2 | Austin, Tex | 32 | 26 | 4 | - | 1 | | |
| Philadelphia, Pa | 406 | 225 | 109 | 34 | 21 | 21 | Baton Rouge, La Corpus Christi, Tex | 45 36 | 25 23 | 9 | 4 | 5 | | |
| Pittsburgh, Pa | 155 | 83 24 | 57 | 3 | 8 | 10 1 | Dallas, Tex | 171 | 93 | 46 | 14 | 3 | | |
| Rochester, N. Y | 30 101 | 66 | 20 | 10 | 5 | 4 | El Paso, Tex | 50 | 25 | 12 | 5 | | | |
| Schenectady, N. Y | 25 | 18 | -6 | i | | | Fort Worth, Tex. | 79 | 52 | 13 | 5 | 4 | | |
| Screnton, Pa | 37 | 28 | 9 | | - | - | Houston, Tex | 1 82 | 80 | 54 | 22 | 14 | | |
| Syracuse, N. Y | 86 | 54 | 23 | 3 | 3 | 2 | Little Rock, Ark | 51 | 29 | 10 | 4 | 3 | | |
| Trenton, N. J. | 40 | 22 | 14 | 3 | - | 6 | New Orleans, La. | 2 18 | 122 | 63 | 12 | 12 | | |
| Utica, N. Y. | 15 | 12 | - | 1 | 2 | - | San Antonio, Tex | 1 27 | 78 | 30 | 9 | 6 | | |
| Yonkers, N. Y | 21 | 14 | 6 | 1 | - [| 4 | Shreveport, La | 84 52 | 51 34 | 23 11 | 5 | 3 | | |
| AST NORTH CENTRAL | 2,210 | 1,221 | 615 | 163 | 99 | 60 | | | | | | | | |
| Akron, Ohio | 70 | 39 | 21 | 3 | 1 | - | MOUNTAIN | 484 | 275 | 130 | 33 | 17 | 2 | |
| Canton, Ohio | 44 | 26 | 12 | 2 | 4 | - | Albuquerque, N. Mex | 45 | 27 | 10 | 4 | - | - : | |
| Chicago, III | 579 | 301 | 161 | 43 | 41 | 17 | Colorado Springs, Colo. | 32 | 17 | 7 | 3 | 2 | | |
| Cincinnati, Ohio | 147 | 96 | 36 | 11 | 1 | 2 | Denver, Colo | 1 26 | 72 9 | 36 | 5 | 4 | | |
| Cleveland, Ohio | 175 | 84 | 58 | 14 | 9 | 2 5 | Las Vegas, Nev | 24 31 | 19 | 11 10 | 2 | 1 | | |
| Calumbus, Ohio | 141 | 65 47 | 53 42 | 15 7 | 2 | 2 | Ogden, Utah Phoenix, Ariz | 106 | 59 | 29 | 11 | 4 | Ann. | |
| Dayton, Ohio | 259 | 136 | 70 | 29 | 10 | 8 | Pueblo, Colo | 19 | 12 | 4 | - | 1 | | |
| Evansville, Ind | 35 | 22 | ii | í | - | - | Salt Lake City, Utah | 44 | 25 | ġ | 5 | 4 | | |
| Fort Wayne, Ind. | 42 | 29 | 7 | 4 | - | 4 | Tucson, Ariz | 57 | 35 | 14 | 2 | 1 | 14. 1 | |
| Gary, Ind | 17 | 7 | 4 | 4 | - | | P 10 3 1 3 | | | | | | | |
| Grand Rapids, Mich | 55 | 36 | 12 | 2 | 3 | 4 | | | | | | 11 / 12 | | |
| Indianapolis, Ind. | 148 | 87 | 35 | 13 | 3 | 1 | PACIFIC | 1,532 | 966 | 353 | 103 | 59 | 4 | |
| Medison, Wis | 39 | 23 | 10 | 2 | | 4 | Berkeley, Calif | 13 54 | 9 39 | 7 | 3 | 2 | | |
| Milwaukee, Wis | 109 | 67 | 32 | (A) | 2 | 3 | Fresno, Calif | 40 | 31 | 8 | 1 | 4 | 149 | |
| Peoria, III | 30 43 | 13 29 | 12 7 | 1 | 5 | 3 | Glendale, Calif Honolulu, Hawaii | 43 | 22 | 13 | 5 | AL N | P. 150 | |
| South Bend, Ind. | 45 | 31 | 6 | 2 | 2 | 4 | Long Beach, Calif | 92 | 55 | 24 | 7 | 4 | | |
| Toledo, Ohio | 84 | 53 | 19 | 6 | 2 | | Los Angeles, Celif | 512 | 331 | 109 | 37 | 19 | 2 | |
| Youngstown, Ohio | 49 | 30 | 7 | 2 | 4 | 1 | Oakland, Calif | 62 | 36 | 10 | 7 | 4 | | |
| | | | | | | | Pasadena, Calif | 36 | 31 | 2 | 2 | - | | |
| | | | | | | | Portland, Oreg | 111 | 67 | 33 | 6 | 3 | | |
| VEST NORTH CENTRAL | 799 | 493 | 195 | 47 | 35 | 25 | Sacramento, Calif | 63 | 39 | 12 | 6 | 2 | • | |
| Des Moines, Iowa | 56 | 31 | 11 | 6 | 4 | 1 | San Diego, Calif | 1 18 | 66 | 35 | 5 | 7 | | |
| Duluth, Minn | 23 | 15 | .6 | 2 | - | 1 | San Francisco, Calif | 1 39 | 87 34 | 36 14 | 5 | 5 | - | |
| Kansas City, Kans | 45 | 21 | 17 | 3 9 | 2 | 2 2 | San Jose, Calif | 53 118 | 34 62 | 14 36 | 10 | 6 | | |
| Kansas City, Mo Lincoln, Nebr | 116 | 78 | 24 | | 1 | | Seattle, Wash | 38 | 31 | 1 | 10 | 3 | | |
| Minneapolis, Minn | 31 99 | 21 62 | 23 | 1 2 | 4 | 1 | Tacoma, Wash | 40 | 26 | 12 | 2 | 100 | 41.3 | |
| Omaha, Nebr | 76 | 39 | 25 | 7 | 2 | 3 | | 14 | 10. | 3.5 | | | | |
| St. Louis, Mo | 238 | 155 | 55 | 10 | 13 | 9 | | | | | | | | |
| St. Paul, Minn | 65 | 42 | 16 | 3 | 3 | 1 | TOTAL | 11,249 | 6,522 | 3,008 | 7,86 | 451 | 37 | |
| Wichita, Kans | 50 | 29 | 9 | 4 | 6 | 4 | | | | | | | | |
| | | | | | | | Expected Number | | | | 780 | 378 | 34 | |

[†]Delayed Report for Week Ending 7/24/76

The Morbidity and Mortality Weekly Report, circulation 52,000, is published by the Center for Disease Control, Atlanta, Georgia. The data in this report are provisional, based on weekly telegraphs 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. Send reports to: Centar for Disease Control, Attn.: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn.: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

Atypical Mycobacteria - Continued

in half the patients, and 13 patients had instability or separation of the sternum. The drainage was variably described as purulent, sero-sanguineous, soupy, necrotic, or watery. Fifteen patients had incision and drainage of their sternal area, at which time purulent material was sometimes noted to be oozing from the sternal closure and from around the steel wires used to close the sternum at operation. One patient suffered a fatal hemorrhage when infection from the sternum and mediastinum apparently eroded the aortic suture line of a prosthetic valve. Highest temperatures ranged from 100°F to 103.6°F, and the median leukocyte count was 10,300/mm³. Before the problem was recognized as being due to an acid-fast bacillus, most patients had several routine cultures of the drainage which were either sterile or grew only normal skin flora. The organism was only partially sensitive to kanamycin, rifampin, and erythromycin; it was resistant to streptomycin, isoniazid, para-aminosalicylic acid, ethionamide, viomycin, ethambutol, cycloserine, pyrazinamide, and capreomycin. The patients have been treated with erythromycin and rifampin, and most have responded favorably.

Multiple cultures of operating room equipment and materials were negative for the epidemic organism.

Colorado

Four of 9 patients undergoing open-heart surgery at a Colorado hospital between April 21 and May 5, 1976, developed infections of their median sternotomy incisions with Mycobacterium fortuitum. Another patient, who had had open-heart surgery in October 1975 developed a similar infection in November. No cases have occurred in patients operated on after May 5. These organisms differed from those in North Carolina in their ability to reduce nitrate and their ability to grow on 5% sodium chloride medium. Three of the strains were sensitive to viomycin, capreomycin, and high concentrations of ethambutol and of rifampin. One strain shared these sensitivities, except that it was resistant to viomycin. The isolate from the fifth patient was sensitive to viomycin, capreomycin, ethambutol, and ethionamide, and resistant to rifampin. The patients ranged in age from 30 to 70 years (median 54). Three of the patients had coronary by-pass grafts, 1 had a mitral commissurotomy, and 1 had an aortic valve replacement plus coronary artery by-pass grafts. The median time from surgery to onset of infection was 25 days. The infection was characterized by single or multiple areas of grayish, yellowish, necrotic-appearing tissue in the sternal incision accompanied by small to moderate amounts of purulent material. Only 2 of the patients required extensive debridement of the area, both of whom had developed secondary infections with Staphylococcus aureus after the

mycobacterial infections had become evident. The other 3 patients were recovering normally when breakdown of the incision began, and they were subsequently treated as outpatients. All patients are being treated with isoniazid, rifampin, ethambutol, and ethionamide.

Cultures of equipment and materials used in median sternotomy operations have all been negative for the epidemic organism thus far.

Reported by MP Hines, DVM, State Epidemiologist, North Carolina Division of Health Services; R. Waggoner, MS, SM(AAM), National Jewish Hospital, Denver, Colorado; TM Vernon, Jr, MD, State Epidemiologist, Colorado State Dept of Health; Mycobacteriology Br, Bacteriology Div, Bur of Laboratories, and Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: These are the first outbreaks of postoperative wound infections due to the *M. fortuitum* complex reported to CDC. The temporal association of these 2 clusters of infections caused by distinct but related organisms suggests a common source such as equipment or surgical material. Because the investigations at the 2 hospitals occurred at least 2 months after many of the patients had had surgery, the materials in use at the time of surgery were not available; cultures of the materials in use during the investigations were negative. None of the 17 patients who had coronary by-pass procedures developed infections with these organisms in their leg incisions (saphenous vein donor sites); only the sternal incisions were affected. Further studies involving equipment and materials used in median sternotomy procedures are in progress.

This infection may be difficult to recognize. It may be low-grade and not have the usual toxic signs of a pyogenic infection of the sternum. It may present as a failure to heal in one or more areas of the incision. Routine cultures generally will be sterile or positive only for skin flora. While the organisms will grow on blood agar, they may take up to 5 days to appear, longer than the time that such plates are usually kept for routine cultures. In addition, the organisms may resemble diphtheroids on colonial morphology and Gram's stain. The organisms will usually grow in 3 to 5 days on standard media for culturing acid-fast bacilli. Acid-fast smears of drainage are frequently but not always positive. Skin test antigens under investigation at CDC have been shown to be sensitive and specific in identifying patients with these infections. These antigens may be available on a limited basis for investigation of suspect cases who no longer have drainage that can be cultured.

Hospital personnel who are aware of similar cases of infection in postoperative patients are requested to inform their local and State health departments and the Hospital Infections Branch, CDC, so that additional data about possible sources may be gathered.

Current Trends

St. Louis Encephalitis — California, Mississippi, Tennessee

The first cases of confirmed St. Louis Encephalitis infection in 1976 have been reported to CDC from California, Tennessee, and Mississippi. Three patients, ages 34, 42, and 56, had onset of illness on June 30, July 7, and July 12, respectively. All 3 had clinical encephalitis and 4-fold or greater serologic titer rises to St. Louis Encephalitis antigen. Because the patient from Tennessee had visited Mississippi 5 days before his onset of Illness, it is possible that he was infected there; the other 2 patients had not recently traveled outside their home states. Surveillance and vector

control efforts in the affected areas have been increased.

Reported by A Bridge, MD, Riverside County (Cal.) Health Dept; J Chin, MD, State Epidemiologist, RW Emmons, MD, California State Dept of Health; AB Kaiser, MD, St. Thomas Hospital, Nashville, Tenn; JM Bistowish, MD, Davidson County Health Dept; AR Hinman, MD, State Epidemiologist, RH Hutcheson, MD, RM Weeks, Tenn State Dept of Public Health; R Dill, MD, Columbus, Mississippi; DL Blakey, MD, State Epidemiologist, Mississippi State Board of Health; and Enteric and Neurotropic Viral Diseases Br, Viral Diseases Div, Bur of Epidemiology, CDC.

International Notes

Clostridium septicum Bacteremia — United Kingdom

A 55-year-old woman was admitted to a hospital in January 1975 with a history of rectal bleeding and abdominal pain. At laparotomy a small carcinoma of the rectosigmoid junction was found. A 9 cm section of colon was excised and an end-to-end anastomosis made. The wound was closed in layers with a drain from the anastomosis site. Sixteen hours after the operation the patient went into shock. Blood cultures were taken, and she was treated with intravenous antibiotics, hydrocortisone, and fluids. She collapsed again on 2 further occasions and died 36 hours after the operation. Clostridium septicum was isolated in pure growth from the blood culture and from the drain site. The pathologist's postmortem report described extensive crepitant cellulitis spreading from a well-sutured lower paramedian incision, with a well-marked hemorrhagic irregular edge halfway across the right side of the abdomen. The cellulitis spread to near the xiphisternum, across the left side of the chest, and down into the flank, involving the labia and upper three-quarters of the left thigh, except on its most posterior aspect. The overall appearances were consistent with a mixed anaerobic infection, that is, of the gas gangrene type.

Clostridium septicum is less commonly found than C. perfringens or C. novyi as a human pathogen; it is responsible for only about 10-20% of cases of gas gangrene. In

1975, 5 cases of *C. septicum* bacteremia were reported by hospital laboratories. Four of the 5 infections were associated with cancer of the large bowel. The patient without cancer was an 83-year-old man, who died from gas gangrene after lacerating his arm in a fall. The organism was isolated from a blood culture and from the arm wound.

That 4 of 5 patients with *C. septicum* bacteremia had an underlying neoplasm is suggestive of an association, though clearly the figures are small. However, in the same year, of 47 patients reported to have *C. perfringens*, only 2 had neoplasms. There are occasional published reports of *C. septicum* infections in patients with malignant disease (1). Alpern and Dowell collected case reports of 27 hospital patients with proven *C. septicum* infections and found that 23 of them had malignant disease (2). Most of these patients had blood disorders, and 7 had tumors in the gastro-intestinal tract.

From notes based on reports to the Public Health Laboratory Service from public health and hospital laboratories in the United Kingdom and the Republic of Ireland, published in the British Medical Journal, April 17, 1976.

References

- 1. Valentine JC: B J Surg 44:630, 1959
- Alpern RJ, and Dowell VR, Jr: Clostridium septicum infections and malignancy. JAMA 209:385, 1969

Epidemiologic Notes and Reports

Respiratory Infection — Pennsylvania

A total of 152 persons associated with a state American Legion convention in Philadelphia July 21-24 have been hospitalized with respiratory infections. Onsets of illness were in the period July 22-August 3; the majority occurred from July 25 to July 31. Twenty-two of these patients have died. The deaths, reported over the past week, were primarily due to pneumonia.

Although information about the disease and its epidemiology is incomplete, it appears to be characterized by the acute onset of fever, chills, headache, and malaise, followed by a dry cough and myalgia. Some of the most seriously ill developed high fever and died in shock with extensive pneumonia. No etiologic agent has yet been incriminated. There is no information available concerning

other Legionnaires who may be ill with less severe symptoms.

The patients, among several thousand attending the convention, stayed in at least 3 or 4 hotels while in Philadelphia. There is no evidence of increase in respiratory disease in Philadelphia residents, nor has there been any confirmed secondary spread to family members or other contacts. There have been several reports of similar disease in non-conventioneers who were in Philadelphia at the same time as the convention.

Reported by RG Sharrar, MD, City of Philadelphia Dept of Public Health; WE Parkin, DVM, Acting State Epidemiologist, Pennsylvania State Dept of Health; the Bur of Epidemiology and the Bur of Laboratories, CDC.

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE / CENTER FOR DISEASE CONTROL ATLANTA, GEORGIA 30333

Director, Center for Disease Control, David J. Sencer, M.D. Director, Bureau of Epidemiology, Philip S. Brachman, M.D. Editor, Michael B. Gregg, M.D. Managing Editor, Anne D. Mather, M.A.

OFFICIAL BUSINESS

FIRST CLASS

