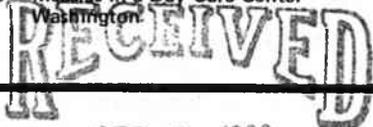


M M W R

MORBIDITY AND MORTALITY WEEKLY REPORT

- 417 ACIP Recommendation
Smallpox Vaccine
- 425 International Notes
Fatal Mumps Myocarditis — England
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Measles in a Day-Care Center —
Washington



SEP 9 1980

*Recommendation of the Immunization
Practices Advisory Committee (ACIP)*

Smallpox Vaccine

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These revised ACIP recommendations on smallpox vaccine acknowledge the successful eradication of smallpox from the world.

SMALLPOX VACCINE

Smallpox vaccine (vaccinia virus) is a highly effective immunizing agent against smallpox. The judicious use of smallpox vaccine has eradicated smallpox. At the World Health Assembly in May 1980, the World Health Organization (WHO) declared the world free of smallpox. Smallpox vaccination of civilians is now indicated *only* for laboratory workers directly involved with smallpox or closely related orthopox viruses (e.g., monkeypox, vaccinia, and others).

MISUSE OF SMALLPOX VACCINE

There is no evidence that smallpox vaccination has therapeutic value in the treatment of recurrent herpes simplex infection, warts, or any other disease. Smallpox vaccine should never be used therapeutically.

SMALLPOX VACCINATION FOR INTERNATIONAL TRAVEL

The United States and most other nations do not require proof of smallpox vaccination as a condition of entry. As of August 15, 1980, only 4 nations in Africa and Asia—Democratic Kampuchea (Cambodia), Madagascar, Djibouti, and Chad—continued to require an up-to-date certification of smallpox vaccination as a condition of entry even though medical reasons for this requirement no longer exist. Smallpox vaccination carries a small but measurable risk of serious complications to both vaccinees and their contacts. The WHO's International Health Regulations provide for smallpox vaccination waiver letters to be issued to travelers for whom vaccination is contraindicated for health reasons. Because of the success of the eradication program and the substantial risk of complications from vaccination, there is justification for giving such letters to all travelers to countries continuing to require smallpox vaccination before entry.

SURVEILLANCE OF SUSPECTED CASES OF SMALLPOX

There is no evidence of smallpox transmission anywhere in the world. Even so, a suspected case of smallpox is a public health emergency and must be promptly investigated. Surveillance of suspected cases of smallpox in the United States includes detection of suspected cases and definitive diagnosis by laboratory characterization of the etiologic agent. Before other actions are taken, a suspected smallpox case should be reported immediately by telephone to state or local health officials or to the Center for Disease Control (telephone: 404-329-2550). Clinical consultation, collection of laboratory specimens, and preliminary laboratory diagnosis can usually be completed in 8-24 hours.

*Smallpox Vaccine — Continued***VOLUNTEER CONSULTANTS ON
SMALLPOX VACCINATION COMPLICATIONS**

Patients with serious complications following smallpox vaccination may benefit from various modes of therapy. Assistance in managing such patients can be obtained from one of the listed consultants.

1. Physicians assigned to the Bureau of Smallpox Eradication, CDC, Atlanta, Ga. 30333

Day: 404-329-2562

Night: 404-329-3644

2. Vincent Fulginiti, MD

Professor and Head, Dept. of Pediatrics
University of Arizona Health Sciences Center
1501 N. Campbell Ave.

Tucson, Ariz. 85724

Office: 602-626-6052

Home: 602-299-9656

Alternate:

E. Russell Alexander, MD

Professor, Pediatrics

Office: 602-626-6507

Home: 602-790-9610

3. Paul F. Wehrle, MD

Hastings Professor of Pediatrics

Pediatrics Pavillion, Room 2D4

Los Angeles County-USC Medical Center
1129 North State St.

Los Angeles, Calif. 90033

Office: 213-226-3691

Home: 213-287-9858

Alternates:

John M. Leedom, MD

Hastings Professor of Medicine

Head, Division of Infectious Diseases

Dept. of Medicine

Office: 213-226-7504

Home: 213-289-7994

Gary D. Overturf, MD

Chief, Communicable Disease Service

Office: 213-226-3695

Home: 213-286-5712

4. Michael Oxman, MD

Professor of Medicine and Pathology

University of California, San Diego

San Diego Veterans Administration Hospital
3350 La Jolla Village Dr.

San Diego, Calif. 92161

Office: 714-453-7500, Ext. 3903/3995

Home: 714-459-0763

5. Moses Grossman, MD

Professor of Pediatrics

University of California Service

San Francisco General Hospital

San Francisco, Calif. 94110

Office: 415-821-8361

Home: 415-681-0475

Alternate:

Delmer J. Pascoe, MD

Clinical Professor of Pediatrics

Office: 415-821-8376

Home: 415-562-3242

6. Brian Lauer, MD

Assistant Professor of Pediatrics and Medicine (Infectious Diseases)

University of Colorado Health Sciences Center

4200 East Ninth Ave.

Denver, Colo. 80262

Office: 303-394-8501

Home: 303-320-4013

Alternate:

Thomas M. Vernon, MD

Assistant Director

Colorado Dept. of Health

4210 East 11th Ave.

Denver, Colo. 80220

Office: 303-320-6137, Ext. 268

Home: 303-377-0741

7. Robert H. Parrott, MD

Professor of Child Health and Development

George Washington University School of Medicine

Director, Children's Hospital

National Medical Center

111 Michigan Ave., N.W.

Washington, D.C. 20010

Office: 202-745-4005

Home: 301-530-7410

Alternate:

Hyun Wha Kim, MD

Research Associate

Dept. of Virology

Office: 202-745-5055

Home: 301-530-2313

8. Andre J. Nahmias, MD

Professor of Pediatrics and Associate Professor of Preventive Medicine and Community Health

Emory University School of Medicine

69 Butler Street, S.E.

Atlanta, Ga. 30303

Office: 404-588-4997

Home: 404-634-9955

9. Dexter Seto, MD

Professor of Pediatrics

University of Hawaii School of Medicine

Smallpox Vaccine – Continued

- Kapiolani Children's Medical Center
Honolulu, Hawaii 96826
Office: 808-947-8511
Home: 808-373-9453
10. Samuel P. Gotoff, MD
Chairman, Dept. of Pediatrics
Michael Reese Hospital and Medical Center
29th and Ellis Ave.
Chicago, Ill. 60616
Office: 312-791-4200
Home: 312-664-3192
- Alternate:
Kenneth M. Boyer, MD
Director, Division of Infectious Diseases
Dept. of Pediatrics
Office: 312-791-4252
Home: 312-383-8632
11. Neal A. Halsey, MD
Assistant Professor
Depts. of Pediatrics and Tropical Medicine
Tulane Medical Center
1430 Tulane Ave.
New Orleans, La. 70112
Office: 504-588-5315
Home: 504-893-2381
- Alternate:
Katherine M. Knight, MD
Associate Professor
Ambulatory Pediatrics
Office: 504-588-5001
Home: 504-455-9680
12. John M. Neff, MD
Chief of Pediatrics
Baltimore City Hospitals
4940 Eastern Ave.
Baltimore, MD. 21224
Office: 301-396-9023
Home: 301-338-1173
13. Martin Hirsch, MD
Associate Professor of Medicine
Massachusetts General Hospital
Fruit St.
Boston, Mass. 02114
Office: 617-726-3812
Home: 617-969-2587
- Alternate:
A.W. Karchmer, MD
Assistant Professor of Medicine
Harvard Medical School
Associate Physician in Medicine
Massachusetts General Hospital
Office: 617-726-3812
Home: 617-891-8358
14. Nicholas J. Fiumara, MD
Director, Division of Communicable and
Venereal Diseases
Massachusetts Dept. of Public Health
600 Washington St., Room 606
Boston, Mass. 02111
Office: 617-727-2687
Home: 617-484-4347
15. Ronald Altman, MD
Assistant Commissioner
Division of Epidemiology and Disease Control
New Jersey State Dept. of Health
P.O. Box 1540
Trenton, N.J. 08625
Office: 609-292-4046
Home: 609-883-4333
Answering Service: 609-392-2020
16. Horace Hodes, MD
Professor of Pediatrics
Mount Sinai School of Medicine
New York, N.Y. 10029
Office: 212-876-1158 or 212-650-6930
Home: 516-627-3691
- Alternate:
Eugene Ainfender, MD
Associate Professor of Pediatrics
Office: 212-650-6943
Home: 201-652-3071
17. Frederick L. Ruben, MD
Associate Professor of Medicine
Montefiore Hospital
3459 Fifth Ave.
Pittsburgh, Pa. 15213
Office: 412-683-1100, Ext. 544
Home: 412-687-4621
18. Julian B. Schorr, MD
Director, Tidewater Regional Red Cross
Blood Program
Professor of Pathology
Eastern Virginia Medical School
611 Brambleton Ave.
Norfolk, Va. 23510
Office: 804-625-6791
Home: 804-489-2865
19. William H. Bancroft, MD, Colonel, MC
Chief, Dept. of Virus Diseases
Walter Reed Army Institute of Research
Washington, D.C. 20012
Office: 202-576-3757
Home: 301-460-3929
- Alternate:
Edmund C. Tramont, Lieutenant Colonel, MC
Chief of Infectious Diseases
Office: 202-576-1742
Home: 301-468-9439

Smallpox Vaccine — Continued

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Lane JM, Ruben FL, Neff JM, Millar JD. Complications of smallpox vaccination, 1968. National surveillance in the United States. *N Engl J Med* 1969;281:1201-8.

World Health Organization. *Weekly Epidemiologic Record* 1980;55:33-40, 121-8, 145-52, 153-60.

Replaces previous recommendations on smallpox, the most recent of which was published in *MMWR* 1978;27:156-8, 163-4.

Reprints of this article will be available upon request from Public Inquiries, Room 1/B63, CDC, Atlanta, Georgia 30333.

TABLE I. Summary — cases of specified notifiable diseases, United States
(Cumulative totals include revised and delayed reports through previous weeks.)

| DISEASE | 35th WEEK ENDING | | MEDIAN 1975-1979 | CUMULATIVE, FIRST 35 WEEKS | | |
|---|--------------------|----------------------|---------------------|----------------------------|----------------------|---------------------|
| | August 30, 1980 | September 1, 1979 | | August 30, 1980 | September 1, 1979 | MEDIAN 1975-1979 |
| Aseptic meningitis | 285 | 471 | 182 | 3,482 | 4,093 | 2,673 |
| Brucellosis | 1 | 6 | 2 | 130 | 104 | 151 |
| Chickenpox | 247 | 265 | 265 | 155,681 | 171,165 | 149,981 |
| Diphtheria | — | — | 3 | 3 | 7 | 66 |
| Encephalitis: Primary (arthropod-borne & unspec.) | 21 | 54 | 59 | 490 | 596 | 697 |
| Post-infectious | 3 | 3 | 3 | 146 | 174 | 174 |
| Hepatitis, Viral: Type B | 266 | 319 | 301 | 11,471 | 9,691 | 10,019 |
| Type A | 404 | 676 | 598 | 18,248 | 19,824 | 20,736 |
| Type unspecified | 198 | 206 | 152 | 7,959 | 6,731 | 5,534 |
| Malaria | 12 | 25 | 12 | 1,292 | 461 | 365 |
| Measles (rubeola) | 58 | 68 | 97 | 12,774 | 11,968 | 23,583 |
| Meningococcal infections: Total | 31 | 32 | 28 | 1,876 | 1,932 | 1,254 |
| Civilian | 31 | 32 | 28 | 1,869 | 1,914 | 1,245 |
| Military | — | — | — | 7 | 18 | 18 |
| Mumps | 43 | 65 | 126 | 7,005 | 11,049 | 15,856 |
| Pertussis | 25 | 28 | 44 | 975 | 928 | 935 |
| Rubella (German measles) | 13 | 44 | 51 | 3,215 | 10,606 | 14,705 |
| Tetanus | 1 | 4 | 4 | 42 | 44 | 50 |
| Tuberculosis | 474 | 523 | 587 | 18,434 | 18,682 | 20,369 |
| Tularemia | 5 | 10 | 3 | 125 | 143 | 95 |
| Typhoid fever | 10 | 14 | 14 | 289 | 320 | 272 |
| Typhus fever, tick-borne (Rky. Mt. spotted) | 39 | 51 | 36 | 852 | 833 | 819 |
| Venereal diseases: | | | | | | |
| Gonorrhea: Civilian | 17,605 | 20,619 | 20,746 | 655,751 | 659,399 | 659,399 |
| Military | 447 | 631 | 631 | 18,016 | 18,539 | 18,539 |
| Syphilis, primary & secondary: Civilian | 478 | 513 | 449 | 17,579 | 16,211 | 16,211 |
| Military | 6 | 13 | 6 | 223 | 206 | 206 |
| Rabies in animals | 56 | 117 | 74 | 4,410 | 3,407 | 2,074 |

TABLE II. Notifiable diseases of low frequency, United States

| | CUM. 1980 | | CUM. 1980 |
|--|-----------|---|-----------|
| Anthrax | — | Poliomyelitis: Total | 6 |
| Botulism (Wash. 1) | 43 | Paralytic | 4 |
| Cholera | 8 | Psittacosis (Conn. 2, Colo. 2) | 64 |
| Congenital rubella syndrome (Ala. 1) | 44 | Rabies in man | — |
| Leprosy (NYC 1, Hawaii 3) | 128 | Trichinosis | 84 |
| Leptospirosis (Conn. 1, Ohio 1, Va. 1, Hawaii 1) | 45 | Typhus fever, flea-borne (endemic, murine) (Tex. 2) | 48 |
| Plague | 11 | | |

All delayed reports will be included in the following week's cumulative totals.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending August 30, 1980, and September 1, 1979 (35th week)

| REPORTING AREA | ASEPTIC MENIN- GITIS | BRU- CEL- LOSIS | CHICKEN- POX | DIPHTHERIA | | ENCEPHALITIS | | | HEPATITIS (VIRAL), BY TYPE | | | MALARIA | |
|------------------|----------------------------|-----------------------|-----------------|------------|---|--------------|------|----------------------|----------------------------|-----|-------------|---------|-------|
| | | | | | | Primary | | Post-in- fectious | B | A | Unspecified | | |
| | | | | | | 1980 | 1979 | | | | | | |
| UNITED STATES | 285 | 1 | 247 | - | 3 | 21 | 54 | 3 | 266 | 404 | 198 | 12 | 1,292 |
| NEW ENGLAND | 9 | - | 12 | - | - | 2 | 3 | - | 10 | 13 | 11 | - | 80 |
| Maine | - | - | 6 | - | - | - | - | - | - | - | - | - | 12 |
| N.H. | - | - | - | - | - | - | - | - | - | 1 | - | - | 7 |
| Vt. | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 |
| Mass. | 3 | - | 3 | - | - | 1 | 2 | - | 4 | 9 | - | - | 41 |
| R.I. | 4 | - | 2 | - | - | - | - | - | 2 | 2 | - | - | 8 |
| Conn. | 2 | - | 1 | - | - | 1 | 1 | - | 7 | 5 | 2 | - | 11 |
| MID. ATLANTIC | 73 | - | 89 | - | 1 | 5 | 7 | - | 50 | 29 | 14 | - | 167 |
| Upstate N.Y. | 24 | - | 14 | - | - | 2 | 3 | - | 11 | 8 | 5 | - | 28 |
| N.Y. City | 3 | - | 74 | - | 1 | - | 1 | - | 16 | 6 | 3 | - | 43 |
| N.J. | 39 | - | NN | - | - | 2 | - | - | 23 | 15 | 6 | - | 45 |
| Pa. | 7 | - | 1 | - | - | 1 | 3 | - | NA | NA | NA | - | 51 |
| E.N. CENTRAL | 43 | - | 91 | - | 1 | 2 | 17 | - | 50 | 60 | 27 | - | 65 |
| Ohio | - | - | 22 | - | - | - | 5 | - | 15 | 17 | 12 | - | 8 |
| Ind. | - | - | - | - | - | - | 7 | - | 1 | 9 | 4 | - | 4 |
| Ill. | 14 | - | 25 | - | - | 1 | 4 | - | 15 | 8 | 4 | - | 26 |
| Mich. | 23 | - | - | - | 1 | 1 | 1 | - | 15 | 26 | 6 | - | 19 |
| Wis. | 6 | - | 44 | - | - | - | - | - | 4 | - | 1 | - | 8 |
| W.N. CENTRAL | 11 | - | 1 | - | 1 | - | 4 | - | 19 | 18 | 5 | 1 | 54 |
| Minn. | - | - | - | - | - | - | - | - | 2 | 4 | - | 1 | 19 |
| Iowa | 2 | - | - | - | - | - | 3 | - | - | 1 | 3 | - | 7 |
| Mo. | 6 | - | - | - | 1 | - | - | - | 14 | 7 | 2 | - | 11 |
| N. Dak. | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S. Dak. | - | - | 1 | - | - | - | - | - | - | 2 | - | - | 3 |
| Nebr. | - | - | - | - | - | - | 1 | - | - | - | - | - | 7 |
| Kans. | 3 | - | - | - | - | - | - | - | 3 | 4 | - | - | 7 |
| S. ATLANTIC | 51 | 1 | 14 | - | - | 5 | 6 | 2 | 62 | 81 | 23 | 6 | 133 |
| Del. | - | - | 1 | - | - | - | - | - | 1 | 2 | - | - | - |
| Md. | 4 | - | - | - | - | - | 1 | - | 7 | 6 | 3 | - | 23 |
| D.C. | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | 1 |
| Va. | 12 | 1 | 1 | - | - | 1 | 2 | 1 | 8 | 8 | 5 | 1 | 48 |
| W. Va. | 1 | - | 4 | - | - | 1 | 3 | - | - | 1 | - | - | 4 |
| N.C. | 24 | - | NN | - | - | 3 | - | - | 9 | 11 | 5 | 2 | 10 |
| S.C. | 3 | - | - | - | - | - | - | - | 11 | 1 | 1 | - | 5 |
| Ga. | - | - | - | - | - | - | - | - | 10 | 17 | - | - | 14 |
| Fla. | 7 | - | 8 | - | - | - | - | 1 | 15 | 34 | 7 | 3 | 28 |
| E.S. CENTRAL | 59 | - | 2 | - | - | 1 | 4 | - | 14 | 45 | 7 | - | 10 |
| Ky. | 3 | - | - | - | - | - | - | - | 2 | 24 | 3 | - | 2 |
| Tenn. | 2 | - | NN | - | - | - | 3 | - | 7 | 10 | 1 | - | - |
| Ala. | 53 | - | - | - | - | - | 1 | - | 4 | 4 | 3 | - | 6 |
| Miss. | 1 | - | 1 | - | - | 1 | - | - | 1 | 7 | - | - | 2 |
| W.S. CENTRAL | 25 | - | 26 | - | - | 5 | 4 | - | 44 | 85 | 66 | 2 | 120 |
| Ark. | - | - | 1 | - | - | - | 1 | - | - | 10 | 5 | - | 6 |
| La. | 5 | - | NN | - | - | 1 | 3 | - | 7 | 23 | 6 | - | 42 |
| Okla. | 2 | - | - | - | - | - | - | - | 3 | 2 | - | - | 12 |
| Tex. | 18 | - | 25 | - | - | 4 | - | - | 34 | 50 | 55 | 2 | 60 |
| MOUNTAIN | 5 | - | 8 | - | - | 1 | 4 | - | 10 | 51 | 37 | 2 | 66 |
| Mont. | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - |
| Idaho | - | - | - | - | - | - | - | - | - | 3 | 1 | - | 1 |
| Wyo. | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 |
| Colo. | 4 | - | 8 | - | - | 1 | 1 | - | 3 | 20 | 5 | - | 25 |
| N. Mex. | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| Ariz. | - | - | NN | - | - | - | - | - | 6 | 14 | 20 | 2 | 14 |
| Utah | 1 | - | - | - | - | - | 1 | - | - | 6 | 8 | - | 15 |
| Nev. | - | - | - | - | - | - | 1 | - | 1 | 4 | 3 | - | 6 |
| PACIFIC | 9 | - | 4 | - | - | - | 5 | 1 | 7 | 22 | 8 | 1 | 597 |
| Wash. | 3 | - | - | - | - | - | 2 | 1 | 1 | 5 | 2 | - | 44 |
| Oreg. | 3 | - | - | - | - | - | - | - | 3 | 12 | 3 | 1 | 32 |
| Calif. | NA | NA | NA | NA | - | NA | 2 | - | NA | NA | NA | NA | 500 |
| Alaska | 2 | - | - | - | - | - | 1 | - | - | - | 2 | - | 6 |
| Hawaii | 1 | - | 4 | - | - | - | - | - | 3 | 5 | 1 | - | 15 |
| Guam | NA | NA | NA | NA | - | NA | - | - | NA | NA | NA | NA | 3 |
| P.R. | - | - | - | - | - | - | - | - | - | 1 | - | - | 3 |
| V.I. | NA | NA | NA | NA | - | NA | - | - | NA | NA | NA | NA | - |
| Pac. Trust Terr. | NA | NA | NA | NA | - | NA | - | - | NA | NA | NA | NA | - |

NN: Not notifiable. NA: Not available.

All delayed reports and corrections will be included in the following week's cumulative totals.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending August 30, 1980, and September 1, 1979 (35th week)

| REPORTING AREA | MEASLES (RUBEO LA) | | | MENINGOCOCCAL INFECTIONS TOTAL | | | MUMPS | | PERTUSSIS | RUBELLA | | TETANUS |
|------------------|--------------------|--------------|--------------|-----------------------------------|--------------|--------------|-------|--------------|-----------|---------|--------------|--------------|
| | 1980 | CUM. 1980 | CUM. 1979 | 1980 | CUM. 1980 | CUM. 1979 | 1980 | CUM. 1980 | 1980 | 1980 | CUM. 1980 | CUM. 1980 |
| UNITED STATES | 58 | 12,774 | 11,968 | 31 | 1,876 | 1,932 | 43 | 7,005 | 25 | 13 | 3,215 | 42 |
| NEW ENGLAND | 4 | 664 | 287 | 1 | 103 | 100 | 1 | 549 | 1 | - | 209 | 1 |
| Maine | - | 33 | 17 | - | 5 | 5 | - | 284 | - | - | 68 | 1 |
| N.H. | - | 322 | 33 | 1 | 8 | 9 | - | 19 | - | - | 34 | - |
| Vt. | - | 226 | 118 | - | 13 | 6 | - | 9 | - | - | 3 | - |
| Mass. | 4 | 59 | 13 | - | 34 | 35 | 1 | 121 | 1 | - | 77 | - |
| R.I. | - | 2 | 102 | - | 7 | 7 | - | 22 | - | - | 9 | - |
| Conn. | - | 22 | 4 | - | 36 | 38 | - | 94 | - | - | 18 | - |
| MID. ATLANTIC | 6 | 3,755 | 1,459 | 10 | 344 | 288 | 5 | 785 | 7 | 6 | 526 | 7 |
| Upstate N.Y. | 2 | 683 | 615 | 2 | 111 | 105 | 3 | 104 | 4 | 5 | 188 | 2 |
| N.Y. City | 4 | 1,174 | 742 | 5 | 89 | 69 | 1 | 89 | 2 | 1 | 92 | 2 |
| N.J. | - | 825 | 57 | - | 70 | 70 | 1 | 96 | 1 | - | 100 | - |
| Pa. | - | 1,073 | 45 | 3 | 74 | 44 | - | 496 | - | - | 146 | 3 |
| E.N. CENTRAL | 22 | 2,410 | 3,112 | 5 | 220 | 206 | 12 | 2,673 | 2 | 2 | 779 | 3 |
| Ohio | 2 | 375 | 266 | - | 77 | 84 | 6 | 1,118 | - | - | 4 | 1 |
| Ind. | - | 90 | 200 | - | 36 | 42 | - | 111 | - | - | 326 | - |
| Ill. | 14 | 335 | 1,388 | 5 | 41 | 9 | 1 | 352 | 1 | - | 159 | - |
| Mich. | - | 235 | 820 | - | 53 | 53 | 1 | 794 | 1 | - | 126 | 1 |
| Wis. | 6 | 1,375 | 438 | - | 13 | 18 | 5 | 298 | - | 2 | 164 | 1 |
| W.N. CENTRAL | 1 | 1,310 | 1,717 | 1 | 68 | 60 | 1 | 239 | - | - | 197 | 3 |
| Minn. | 1 | 1,096 | 1,209 | - | 20 | 10 | - | 13 | - | - | 27 | 1 |
| Iowa | - | - | 16 | - | 9 | 9 | - | 39 | - | - | 8 | - |
| Mo. | - | 64 | 409 | 1 | 26 | 31 | 1 | 71 | - | - | 45 | 1 |
| N. Dak. | - | - | 20 | - | 1 | 1 | - | 4 | - | - | 5 | - |
| S. Dak. | - | - | 2 | - | 4 | 4 | - | 2 | - | - | 2 | - |
| Nebr. | - | 83 | - | - | - | - | - | 9 | - | - | 1 | - |
| Kans. | - | 67 | 61 | - | 8 | 5 | - | 101 | - | - | 109 | 1 |
| S. ATLANTIC | 13 | 1,876 | 1,829 | 10 | 456 | 476 | 9 | 942 | 4 | 1 | 319 | 7 |
| Del. | - | 3 | 1 | - | 2 | 5 | 1 | 39 | - | - | 1 | - |
| Md. | - | 71 | 15 | - | 46 | 41 | - | 315 | - | - | 70 | 1 |
| D.C. | - | - | - | - | 1 | - | - | 4 | - | - | 1 | - |
| Va. | 1 | 301 | 267 | - | 44 | 68 | 1 | 56 | - | - | 50 | 2 |
| W. Va. | - | 22 | 53 | 1 | 15 | 8 | 3 | 86 | 2 | - | 22 | 1 |
| N.C. | - | 128 | 111 | 2 | 88 | 75 | - | 88 | - | - | 46 | - |
| S.C. | - | 159 | 150 | - | 53 | 57 | - | 203 | - | - | 51 | 2 |
| Ga. | 11 | 810 | 447 | 5 | 78 | 67 | 1 | 2 | 1 | - | - | - |
| Fla. | 1 | 382 | 785 | 2 | 129 | 155 | 3 | 149 | 1 | 1 | 78 | 1 |
| E.S. CENTRAL | 2 | 340 | 196 | - | 171 | 144 | 3 | 843 | 5 | 1 | 80 | 3 |
| Ky. | 2 | 55 | 37 | - | 53 | 29 | 1 | 743 | - | 1 | 37 | 1 |
| Tenn. | - | 179 | 51 | - | 45 | 40 | - | 24 | 4 | - | 38 | 1 |
| Ala. | - | 22 | 84 | - | 46 | 36 | 2 | 18 | - | - | 3 | 1 |
| Miss. | - | 84 | 24 | - | 27 | 39 | - | 58 | 1 | - | 2 | - |
| W.S. CENTRAL | 6 | 926 | 885 | 3 | 198 | 301 | 5 | 253 | 3 | 2 | 118 | 10 |
| Ark. | - | 13 | 7 | - | 18 | 24 | - | 20 | - | - | 4 | 1 |
| La. | - | 13 | 245 | - | 72 | 115 | - | 65 | 1 | - | 10 | 2 |
| Okla. | 3 | 745 | 22 | 1 | 18 | 26 | - | - | 1 | - | 4 | - |
| Tex. | 3 | 155 | 611 | 2 | 90 | 136 | 5 | 168 | 1 | 2 | 100 | 7 |
| MOUNTAIN | 4 | 467 | 306 | 1 | 62 | 76 | 3 | 190 | 2 | - | 137 | - |
| Mont. | - | 2 | 53 | - | 3 | 7 | - | 55 | 1 | - | 42 | - |
| Idaho | - | - | 18 | - | 4 | 7 | - | 15 | - | - | 18 | - |
| Wyo. | - | - | 36 | - | 2 | 1 | - | - | 1 | - | 1 | - |
| Colo. | - | 24 | 60 | 1 | 16 | 5 | 3 | 51 | - | - | 11 | - |
| N. Mex. | - | 13 | 38 | - | 8 | 4 | - | - | - | - | 5 | - |
| Ariz. | 4 | 373 | 72 | - | 12 | 33 | - | 34 | - | - | 30 | - |
| Utah | - | 47 | 18 | - | 2 | 8 | - | 26 | - | - | 25 | - |
| Nev. | - | 8 | 11 | - | 15 | 11 | - | 9 | - | - | 5 | - |
| PACIFIC | - | 1,026 | 2,177 | - | 254 | 281 | 4 | 531 | 1 | 1 | 850 | 8 |
| Wash. | - | 174 | 1,126 | - | 49 | 44 | - | 127 | 1 | - | 73 | - |
| Oreg. | - | - | 58 | - | 42 | 24 | 4 | 66 | - | - | 50 | - |
| Calif. | NA | 841 | 912 | - | 155 | 198 | NA | 312 | NA | NA | 711 | 8 |
| Alaska | - | 5 | 17 | - | 8 | 5 | - | 11 | - | 1 | 11 | - |
| Hawaii | - | 6 | 64 | - | - | 10 | - | 15 | - | - | 5 | - |
| Guam | NA | 5 | 11 | - | 1 | 1 | NA | 9 | NA | NA | - | - |
| P.R. | 3 | 110 | 325 | - | 9 | 4 | - | 124 | - | 2 | 18 | 8 |
| V.I. | NA | 6 | 5 | - | 1 | 3 | NA | 2 | NA | NA | - | - |
| Pac. Trust Terr. | NA | 6 | 8 | - | - | 1 | NA | 14 | NA | NA | 1 | - |

NA: Not available.

All delayed reports and corrections will be included in the following week's cumulative totals.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending August 30, 1980, and September 1, 1979 (35th week)

| REPORTING AREA | TUBERCULOSIS | | TULA- REMIA | TYPHOID FEVER | | TYPHUS FEVER (Tick-borne) (RMSF) | | VENEREAL DISEASES (Civilian) | | | | RABIES (In Animals) | | |
|------------------|--------------|--------------|----------------|------------------|--------------|--|--------------|------------------------------|--------------|------------------------|------|---------------------------|--------------|--------------|
| | | | | | | | | GONORRHEA | | SYPHILIS (Pri. & Sec.) | | | | |
| | 1980 | CUM. 1980 | CUM. 1980 | 1980 | CUM. 1980 | 1980 | CUM. 1980 | 1980 | CUM. 1980 | CUM. 1979 | 1980 | CUM. 1980 | CUM. 1979 | CUM. 1980 |
| UNITED STATES | 474 | 18,434 | 125 | 10 | 289 | 39 | 852 | 17,605 | 655,751 | 659,399 | 478 | 17,579 | 16,211 | 4,410 |
| NEW ENGLAND | 16 | 532 | 4 | 1 | 8 | - | 8 | 504 | 16,465 | 16,527 | 11 | 408 | 314 | 43 |
| Maine | 1 | 40 | - | - | 1 | - | - | 39 | 952 | 1,150 | 1 | 5 | 7 | 19 |
| N.H. | 1 | 12 | - | - | - | - | - | 21 | 601 | 619 | - | 1 | 16 | 6 |
| Vt. | - | 18 | - | - | - | - | - | 20 | 389 | 387 | - | 5 | 1 | - |
| Mass. | 7 | 287 | 2 | 1 | 5 | - | 4 | 243 | 6,863 | 6,546 | 9 | 262 | 178 | 11 |
| R.I. | - | 54 | 1 | - | 1 | - | 2 | 21 | 1,038 | 1,355 | 1 | 22 | 10 | - |
| Conn. | 7 | 121 | 1 | - | 1 | - | 2 | 160 | 6,622 | 6,470 | - | 113 | 102 | 7 |
| MID. ATLANTIC | 82 | 3,003 | 2 | 4 | 59 | 2 | 38 | 1,875 | 69,993 | 71,053 | 59 | 2,484 | 2,452 | 52 |
| Upstate N.Y. | 13 | 590 | 1 | 1 | 9 | 1 | 13 | 401 | 13,163 | 11,565 | 5 | 208 | 177 | 26 |
| N.Y. City | 33 | 1,062 | 1 | 1 | 27 | - | 2 | 637 | 26,478 | 28,371 | 46 | 1,632 | 1,672 | - |
| N.J. | 20 | 639 | - | 2 | 12 | 1 | 14 | 837 | 13,199 | 12,839 | 8 | 301 | 323 | 11 |
| Pa. | 16 | 712 | - | - | 11 | - | 9 | NA | 17,153 | 18,278 | NA | 343 | 280 | 15 |
| E.N. CENTRAL | 96 | 2,668 | 1 | 1 | 24 | - | 22 | 4,498 | 102,786 | 101,715 | 59 | 1,639 | 2,115 | 663 |
| Ohio | 16 | 480 | - | - | 6 | - | 10 | 1,577 | 27,267 | 28,112 | - | 250 | 395 | 39 |
| Ind. | - | 263 | - | - | - | - | 2 | 401 | 10,557 | 8,941 | 3 | 132 | 165 | 60 |
| Ill. | 48 | 959 | - | - | 9 | - | 6 | 1,528 | 32,288 | 31,354 | 50 | 938 | 1,186 | 372 |
| Mich. | 32 | 818 | 1 | 1 | 6 | - | 3 | 708 | 23,027 | 24,024 | 3 | 256 | 306 | 10 |
| Wis. | - | 148 | - | - | 3 | - | 1 | 284 | 9,647 | 9,284 | 3 | 63 | 63 | 182 |
| W.N. CENTRAL | 14 | 679 | 20 | - | 21 | 2 | 49 | 1,398 | 31,302 | 32,169 | 8 | 219 | 213 | 1,424 |
| Minn. | 1 | 131 | 1 | - | 3 | - | - | 212 | 5,130 | 5,464 | 1 | 76 | 57 | 154 |
| Iowa | - | 61 | 1 | - | 1 | - | 2 | 99 | 3,333 | 3,963 | - | 14 | 27 | 298 |
| Mo. | 9 | 314 | 17 | - | 15 | 2 | 32 | 707 | 13,992 | 13,812 | 7 | 110 | 97 | 306 |
| N. Dak. | - | 33 | - | - | - | - | - | 12 | 433 | 540 | - | 3 | 2 | 168 |
| S. Dak. | - | 33 | - | - | 1 | - | 2 | 32 | 931 | 1,090 | - | 2 | 2 | 296 |
| Nebr. | - | 27 | 1 | - | - | - | 3 | 74 | 2,381 | 2,264 | - | 6 | 2 | 82 |
| Kans. | 4 | 80 | - | - | 1 | - | 10 | 262 | 5,102 | 5,036 | - | 8 | 26 | 120 |
| S. ATLANTIC | 114 | 4,097 | 9 | 2 | 33 | 21 | 552 | 4,965 | 164,613 | 160,550 | 124 | 4,178 | 3,917 | 337 |
| Del. | 2 | 56 | - | - | 1 | - | 2 | NA | 2,207 | 2,624 | NA | 10 | 21 | 1 |
| Md. | 15 | 517 | 2 | - | 2 | 1 | 60 | 652 | 17,812 | 19,671 | 10 | 308 | 254 | 24 |
| D.C. | 3 | 238 | - | - | 3 | - | - | 501 | 11,660 | 10,437 | 17 | 315 | 302 | - |
| Va. | 11 | 430 | - | - | 4 | 2 | 72 | 846 | 14,858 | 15,425 | 9 | 376 | 326 | 12 |
| W. Va. | 3 | 150 | - | - | 3 | - | 2 | 97 | 2,236 | 2,202 | - | 15 | 41 | 16 |
| N.C. | 23 | 733 | 3 | - | 2 | 14 | 249 | 667 | 23,315 | 22,937 | 4 | 284 | 316 | 17 |
| S.C. | 13 | 377 | - | - | 3 | 4 | 125 | 386 | 15,590 | 15,037 | 6 | 236 | 202 | 44 |
| Ga. | 29 | 562 | 4 | - | - | - | 38 | 387 | 31,327 | 30,415 | 39 | 1,190 | 1,074 | 164 |
| Fla. | 15 | 1,034 | - | 2 | 15 | - | 4 | 1,429 | 45,608 | 41,802 | 39 | 1,444 | 1,381 | 59 |
| E.S. CENTRAL | 40 | 1,669 | 8 | - | 8 | 7 | 74 | 1,219 | 53,405 | 56,251 | 58 | 1,457 | 1,059 | 241 |
| Ky. | - | 354 | - | - | 2 | 5 | 13 | 293 | 7,988 | 7,439 | 2 | 102 | 114 | 108 |
| Tenn. | 16 | 560 | 6 | - | - | 2 | 43 | 642 | 19,344 | 20,333 | 23 | 611 | 442 | 102 |
| Ala. | 8 | 448 | - | - | 2 | - | 10 | NA | 15,500 | 16,520 | 1 | 298 | 200 | 31 |
| Miss. | 16 | 307 | 2 | - | 4 | - | 8 | 284 | 10,573 | 11,959 | 32 | 446 | 303 | - |
| W.S. CENTRAL | 80 | 2,037 | 57 | 1 | 36 | 7 | 91 | 2,064 | 84,659 | 85,037 | 113 | 3,514 | 2,941 | 1,074 |
| Ark. | 6 | 213 | 37 | - | 4 | 2 | 17 | 264 | 7,211 | 6,720 | 6 | 123 | 96 | 139 |
| La. | 19 | 383 | - | - | - | 1 | 2 | 305 | 15,150 | 14,997 | 41 | 860 | 708 | 7 |
| Okla. | - | 202 | 15 | - | 3 | 4 | 55 | 309 | 8,450 | 8,156 | 3 | 69 | 63 | 185 |
| Tex. | 55 | 1,239 | 5 | 1 | 29 | - | 17 | 1,186 | 53,848 | 55,164 | 63 | 2,462 | 2,074 | 743 |
| MOUNTAIN | 9 | 485 | 20 | 1 | 20 | - | 14 | 694 | 25,509 | 26,456 | 41 | 446 | 316 | 171 |
| Mont. | 1 | 19 | 4 | - | 1 | - | 3 | 33 | 971 | 1,301 | - | 1 | 8 | 33 |
| Idaho | - | 22 | 1 | - | 1 | - | 1 | 36 | 1,124 | 1,166 | - | 24 | 21 | 2 |
| Wyo. | - | 16 | 3 | - | - | - | 2 | 28 | 745 | 726 | - | 8 | 5 | 9 |
| Colo. | 2 | 71 | 5 | 1 | 6 | - | 3 | 208 | 6,899 | 6,955 | 6 | 113 | 64 | 38 |
| N. Mex. | 3 | 99 | - | - | 2 | - | 4 | 129 | 3,144 | 3,301 | 10 | 78 | 62 | 37 |
| Ariz. | 3 | 205 | 1 | - | 7 | - | - | 79 | 6,830 | 7,473 | 25 | 154 | 94 | 48 |
| Utah | - | 32 | 4 | - | 3 | - | 1 | 30 | 1,248 | 1,350 | - | 11 | 3 | 3 |
| Nev. | - | 21 | 2 | - | - | - | - | 151 | 4,548 | 4,184 | - | 57 | 59 | 1 |
| PACIFIC | 23 | 3,264 | 4 | - | 80 | - | 4 | 388 | 107,019 | 109,641 | 5 | 3,234 | 2,884 | 405 |
| Wash. | 7 | 294 | - | - | 3 | - | - | NA | 8,340 | 9,351 | NA | 154 | 153 | - |
| Oreg. | 12 | 120 | 1 | - | 9 | - | 1 | 277 | 7,463 | 6,982 | 1 | 69 | 115 | 3 |
| Calif. | NA | 2,750 | 2 | NA | 68 | NA | 3 | NA | 86,366 | 87,909 | NA | 2,891 | 2,527 | 358 |
| Alaska | - | 41 | 1 | - | - | - | - | 66 | 2,647 | 3,398 | - | 7 | 21 | 44 |
| Hawaii | 4 | 59 | - | - | - | - | - | 45 | 2,203 | 2,001 | 4 | 113 | 68 | - |
| Guam | NA | 30 | - | NA | - | NA | - | NA | 72 | 82 | NA | 4 | - | - |
| P.R. | 4 | 120 | - | - | 21 | - | - | 97 | 1,820 | 1,405 | 22 | 403 | 333 | 38 |
| V.I. | NA | - | - | NA | - | NA | - | NA | 108 | 117 | NA | 10 | 6 | - |
| Pac. Trust Terr. | NA | 30 | - | NA | - | NA | - | NA | 258 | 324 | NA | - | 1 | - |

NA: Not available.

All delayed reports and corrections will be included in the following week's cumulative totals.

TABLE IV. Deaths in 121 U.S. cities,* week ending
August 30, 1980 (35th week)

| REPORTING AREA | ALL CAUSES, BY AGE (YEARS) | | | | | P & I** TOTAL | REPORTING AREA | ALL CAUSES, BY AGE (YEARS) | | | | | P & I** TOTAL |
|----------------------|----------------------------|--------------|------------|------------|-----------|------------------|-----------------------|----------------------------|--------------|--------------|------------|------------|------------------|
| | ALL AGES | >85 | 45-64 | 25-44 | <1 | | | ALL AGES | >85 | 45-64 | 25-44 | <1 | |
| NEW ENGLAND | 609 | 392 | 142 | 40 | 18 | 33 | S. ATLANTIC | 1,156 | 680 | 288 | 97 | 45 | 39 |
| Boston, Mass. | 181 | 107 | 49 | 12 | 8 | 12 | Atlanta, Ga. | 156 | 93 | 42 | 11 | 5 | 6 |
| Bridgeport, Conn. | 38 | 29 | 7 | 1 | — | 4 | Baltimore, Md. | 288 | 158 | 75 | 34 | 11 | 2 |
| Cambridge, Mass. | 18 | 15 | 3 | — | — | 3 | Charlotte, N.C. | 48 | 26 | 12 | 4 | 2 | 2 |
| Fall River, Mass. | 28 | 16 | 9 | 2 | — | 1 | Jacksonville, Fla. | 80 | 51 | 14 | 8 | 3 | 2 |
| Hartford, Conn. | 31 | 18 | 8 | 3 | 2 | — | Miami, Fla. | 92 | 52 | 24 | 7 | 9 | 1 |
| Lowell, Mass. | 23 | 15 | 5 | 1 | — | 1 | Norfolk, Va. | 48 | 26 | 13 | 5 | 3 | 1 |
| Lynn, Mass. | 15 | 14 | 1 | — | — | — | Richmond, Va. | 70 | 35 | 25 | 6 | — | 7 |
| New Bedford, Mass. | 22 | 19 | 2 | — | — | 1 | Savannah, Ga. | 47 | 34 | 9 | 1 | 1 | 1 |
| New Haven, Conn. | 63 | 32 | 20 | 6 | 3 | — | St. Petersburg, Fla. | 92 | 77 | 6 | 4 | 3 | 5 |
| Providence, R.I. | 44 | 31 | 9 | 2 | 1 | 3 | Tampa, Fla. | 82 | 49 | 23 | 4 | 3 | 4 |
| Somerville, Mass. | 7 | 3 | 1 | 2 | — | — | Washington, D.C. | 107 | 53 | 35 | 11 | 2 | 6 |
| Springfield, Mass. | 49 | 32 | 10 | 5 | 2 | 2 | Wilmington, Del. | 48 | 26 | 10 | 2 | 3 | 2 |
| Waterbury, Conn. | 32 | 21 | 6 | 4 | — | 1 | | | | | | | |
| Worcester, Mass. | 58 | 40 | 12 | 2 | 2 | 5 | | | | | | | |
| | | | | | | | E.S. CENTRAL | 665 | 374 | 168 | 44 | 50 | 22 |
| MID. ATLANTIC | 2,356 | 1,484 | 580 | 155 | 60 | 94 | Birmingham, Ala. | 103 | 58 | 26 | 10 | 2 | — |
| Albany, N.Y. | 61 | 37 | 12 | 3 | 6 | 2 | Chattanooga, Tenn. | 63 | 43 | 6 | 8 | — | 3 |
| Allentown, Pa. | 30 | 23 | 5 | — | — | — | Knoxville, Tenn. | 43 | 31 | 8 | 2 | — | 1 |
| Buffalo, N.Y. | 106 | 64 | 25 | 5 | 4 | 3 | Louisville, Ky. | 113 | 57 | 42 | 4 | 5 | 7 |
| Camden, N.J. | 21 | 12 | 5 | 1 | 2 | 1 | Memphis, Tenn. | 179 | 92 | 49 | 9 | 24 | 7 |
| Elizabeth, N.J. | 30 | 20 | 9 | 1 | — | — | Mobile, Ala. | 51 | 30 | 10 | 4 | 5 | 2 |
| Erie, Pa.† | 34 | 25 | 7 | 2 | — | 1 | Montgomery, Ala. | 43 | 23 | 8 | 1 | 11 | 2 |
| Jersey City, N.J. | 56 | 37 | 16 | 2 | 1 | 1 | Nashville, Tenn. | 70 | 40 | 19 | 6 | 3 | — |
| Newark, N.J. | 60 | 24 | 25 | 7 | 2 | 4 | | | | | | | |
| N.Y. City, N.Y. | 1,307 | 823 | 312 | 106 | 27 | 49 | W.S. CENTRAL | 1,249 | 652 | 322 | 130 | 51 | 39 |
| Paterson, N.J. | 25 | 16 | 5 | 2 | 1 | — | Austin, Tex. | 40 | 26 | 9 | 3 | — | 1 |
| Philadelphia, Pa.† | 209 | 113 | 60 | 13 | 12 | 13 | Baton Rouge, La. | 37 | 17 | 15 | 3 | 1 | 2 |
| Pittsburgh, Pa.† | 73 | 48 | 17 | 2 | 3 | 4 | Corpus Christi, Tex. | 36 | 17 | 10 | 6 | 2 | — |
| Reading, Pa. | 40 | 35 | 5 | — | — | — | Dallas, Tex. | 189 | 99 | 52 | 18 | 5 | 4 |
| Rochester, N.Y. | 103 | 68 | 26 | 5 | 2 | 7 | El Paso, Tex. | 75 | 37 | 20 | 7 | 3 | 3 |
| Schenectady, N.Y. | 25 | 18 | 3 | 2 | — | — | Fort Worth, Tex. | 88 | 45 | 18 | 13 | 9 | 5 |
| Scranton, Pa.† | 25 | 18 | 7 | — | — | — | Houston, Tex. | 255 | 117 | 68 | 32 | 9 | — |
| Syracuse, N.Y. | 83 | 53 | 24 | 4 | — | 3 | Little Rock, Ark. | 83 | 48 | 24 | 5 | 3 | 10 |
| Trenton, N.J. | 25 | 17 | 7 | — | — | — | New Orleans, La. | 157 | 90 | 38 | 14 | 3 | 1 |
| Utica, N.Y. | 18 | 13 | 5 | — | — | — | San Antonio, Tex. | 161 | 79 | 37 | 20 | 10 | 9 |
| Yonkers, N.Y. | 25 | 20 | 5 | — | — | 3 | Shreveport, La. | 61 | 40 | 15 | 3 | 2 | 3 |
| | | | | | | | Tulsa, Okla. | 67 | 37 | 16 | 6 | 4 | 1 |
| | | | | | | | | | | | | | |
| E.N. CENTRAL | 2,179 | 1,336 | 515 | 156 | 78 | 65 | MOUNTAIN | 565 | 325 | 134 | 40 | 23 | 16 |
| Akron, Ohio | 63 | 34 | 18 | 1 | 3 | — | Albuquerque, N. Mex. | 63 | 24 | 15 | 10 | 1 | — |
| Canton, Ohio | 45 | 29 | 14 | 2 | — | 4 | Colo. Springs, Colo. | 37 | 24 | 6 | 3 | — | 4 |
| Chicago, Ill. | 502 | 292 | 134 | 32 | 23 | 8 | Denver, Colo. | 122 | 68 | 31 | 8 | 7 | 5 |
| Cincinnati, Ohio | 121 | 78 | 29 | 7 | 2 | 8 | Las Vegas, Nev. | 43 | 27 | 9 | 5 | 1 | 1 |
| Cleveland, Ohio | 155 | 84 | 41 | 23 | 4 | 11 | Ogden, Utah | 17 | 9 | 5 | — | 3 | 2 |
| Columbus, Ohio | 130 | 75 | 30 | 16 | 3 | 3 | Phoenix, Ariz. | 144 | 82 | 41 | 8 | 6 | 1 |
| Dayton, Ohio | 101 | 66 | 22 | 5 | 2 | 2 | Pueblo, Colo. | 21 | 16 | 4 | 1 | — | 1 |
| Detroit, Mich. | 297 | 172 | 79 | 26 | 8 | 4 | Salt Lake City, Utah | 42 | 25 | 5 | 2 | 4 | — |
| Evansville, Ind. | 28 | 20 | 3 | 1 | 3 | — | Tucson, Ariz. | 76 | 48 | 18 | 3 | 1 | — |
| Fort Wayne, Ind. | 51 | 32 | 10 | 3 | 4 | 1 | | | | | | | |
| Gary, Ind. | 21 | 14 | 3 | 4 | — | — | | | | | | | |
| Grand Rapids, Mich. | 62 | 34 | 15 | 4 | 3 | 1 | PACIFIC | 1,651 | 1,060 | 340 | 119 | 81 | 52 |
| Indianapolis, Ind. | 149 | 98 | 32 | 8 | 5 | — | Berkeley, Calif. | 17 | 10 | 4 | 3 | — | — |
| Madison, Wis. | 47 | 27 | 8 | 4 | 3 | 6 | Fresno, Calif. | 96 | 63 | 16 | 4 | 5 | 3 |
| Milwaukee, Wis. | 109 | 78 | 19 | 5 | 6 | 8 | Glendale, Calif. | 21 | 18 | 3 | — | — | 3 |
| Peoria, Ill. | 43 | 29 | 8 | 3 | 2 | 4 | Honolulu, Hawaii | 56 | 35 | 12 | 1 | 2 | 4 |
| Rockford, Ill. | 47 | 29 | 10 | 3 | 2 | 1 | Long Beach, Calif. | 91 | 56 | 20 | 10 | 3 | 2 |
| South Bend, Ind. | 47 | 30 | 10 | 4 | — | 4 | Los Angeles, Calif. | 459 | 288 | 98 | 40 | 15 | 15 |
| Toledo, Ohio | 109 | 83 | 17 | 3 | 3 | — | Oakland, Calif. | 48 | 31 | 13 | 2 | 1 | 3 |
| Youngtown, Ohio | 52 | 30 | 13 | 2 | 2 | — | Pasadena, Calif. | 38 | 22 | 5 | 5 | 2 | 2 |
| | | | | | | | Portland, Oreg. | 103 | 73 | 17 | 6 | 5 | — |
| W.N. CENTRAL | 678 | 424 | 148 | 44 | 24 | 20 | Sacramento, Calif. | 63 | 36 | 16 | 3 | 6 | 4 |
| Des Moines, Iowa | 54 | 35 | 13 | 2 | — | — | San Diego, Calif. †† | 124 | 77 | 27 | 9 | 7 | 1 |
| Duluth, Minn. | 23 | 12 | 7 | 2 | 1 | 1 | San Francisco, Calif. | 131 | 90 | 28 | 6 | 5 | 2 |
| Kansas City, Kans. | 33 | 23 | 4 | 4 | 1 | 3 | San Jose, Calif. | 160 | 103 | 31 | 12 | 11 | 8 |
| Kansas City, Mo. | 111 | 68 | 28 | 9 | 4 | 4 | Seattle, Wash. | 148 | 93 | 37 | 10 | 8 | 2 |
| Lincoln, Nebr. | 27 | 20 | 3 | 1 | 3 | — | Spokane, Wash. | 60 | 38 | 9 | 7 | 5 | 1 |
| Minneapolis, Minn. | 66 | 41 | 15 | 3 | 4 | 4 | Tacoma, Wash. | 36 | 27 | 4 | 1 | 3 | 2 |
| Omaha, Nebr. | 82 | 52 | 14 | 6 | 4 | 2 | | | | | | | |
| St. Louis, Mo. | 154 | 97 | 33 | 11 | 4 | 2 | | | | | | | |
| St. Paul, Minn. | 66 | 44 | 16 | 1 | 1 | 1 | | | | | | | |
| Wichita, Kans. | 62 | 32 | 15 | 5 | 2 | 3 | TOTAL | 11,108 | 6,727 | 2,637 | 825 | 430 | 380 |

*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.

**Pneumonia 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.

†† Data not available this week. Figures are estimates based on average percent of regional totals.

International Notes

Fatal Mumps Myocarditis — England

In early 1979 in Bristol, England, a previously healthy, 8-month-old baby girl was found sweating profusely in her stroller, with mottled blue patches on her face. She was taken to a hospital by ambulance but was dead on arrival. The child was being looked after by her grandmother at the time, and no history of illness immediately preceding death was obtained. The baby had 2 older siblings, aged 2 and 4 years, but there was no recorded history of illness in these children during the weeks preceding the baby's death.

At autopsy the heart was enlarged due to gross dilation of all the chambers, and there was a pericardial effusion of about 5 ml of clear yellow fluid. No congenital abnormalities of the heart or main vessels were found and, apart from congestion, the other organs appeared normal. Microscopy of the heart revealed diffuse infiltration of the myocardium by lymphocytes and occasional polymorphonuclear leukocytes and a mild pericarditis. The submandibular glands showed marked focal infiltration by lymphocytes and plasma cells, particularly around small ducts. The submucosa of the larynx, trachea, and nasopharynx was also infiltrated with these cells, and scattered interstitial aggregates of lymphoid cells were present in skeletal muscle.

The cause of the acute myocarditis was established when mumps virus was isolated from the myocardium and an impression smear of the myocardium, tested by indirect immunofluorescence, revealed mumps virus antigen. On retesting, mumps virus was again isolated from the heart. No virus was isolated from a nasopharyngeal aspirate, the lung or the feces, and bacteriologic and biochemical investigations revealed no other abnormalities.

Editorial Note: The sudden death of this baby was due to acute myocarditis caused by mumps virus (1). This appears to be the first report of mumps myocarditis causing sudden infant death. The source of the infection was not established.

Although transient electrocardiographic changes occur quite frequently during mumps, clinical symptoms and signs of myocarditis are rare. There was only one reported case of myocarditis in a retrospective study of 2,482 cases of mumps treated in infectious disease units in England and Wales between 1958 and 1969 (2), although it is possible that one of the 3 deaths that occurred may have been due to acute myocarditis. Other deaths ascribed to mumps myocarditis have occurred from heart failure several months after the acute infection (3-5).

Reported by NJ Brown, FRCP, FRCPATH, Southmead Hospital, SJ Richmond, MD, Public Health Laboratory, Bristol, in the Communicable Disease Report 1980;80(6):3.

References

1. Brown NJ, Richmond SJ. Fatal mumps myocarditis in an 8-month-old child. *Br Med J* 1980;281:356-7.
2. Report of the Association for the Study of Infectious Diseases. A retrospective survey of the complication of mumps. *J Roy Coll Gen Practit* 1974;24:552-6.
3. Krakower CA, Roberg NB. Clinical pathologic conference. *Am Heart J* 1962;63:276-82.
4. Roberts WC, Fox SM. Mumps of the heart: clinical and pathologic features. *Circulation* 1965;32:342-5.
5. Carstens PHB. Postnatal mumps virus infection associated with endocardial fibroelastosis. *Arch Pathol* 1969;88:329-401.

Epidemiologic Notes and Reports

Measles in a Day-Care Center — Washington

Since 1978, CDC has been receiving increasing reports of measles outbreaks among children in day-care centers (1,2); many of the cases have occurred in children less than 15 months of age who were not routinely vaccinated. An outbreak that occurred recently in Washington illustrates the problems that occur in such outbreaks.

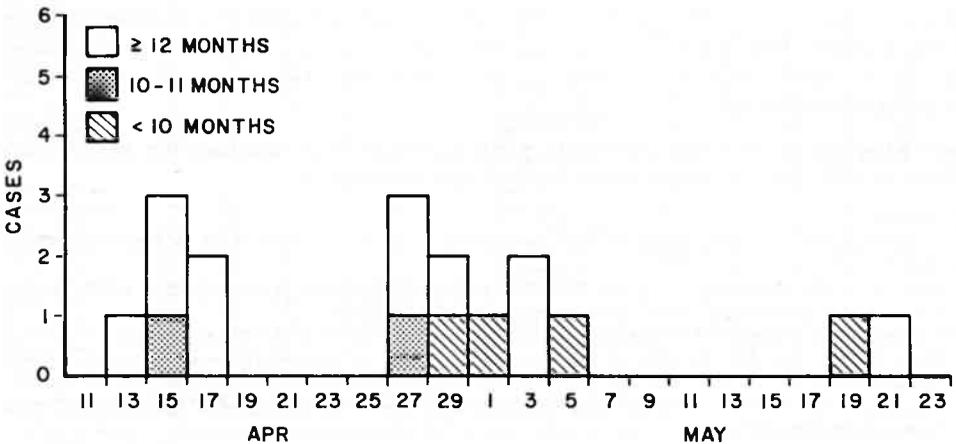
From April 13 to May 22, 1980, 17 physician-diagnosed cases of measles occurred among children from the McChord Air Force Base Day Care Center in Pierce County, Washington (Figure 1). The source of the outbreak could not be determined with certainty. All cases occurred among children in the "baby room," where approximately 20 children were cared for regularly and an estimated 100 children were cared for intermittently during the outbreak. The maximum age of children in this room was 22 months; most babies were between 6 and 16 months of age.

Eleven of the 17 (65%) children with measles were less than 15 months old (Table 1). Only 2 of the 17 children were vaccinated. Both of these infants, who were 16 months of age, had received live, further-attenuated measles vaccine during their incubation period.

On April 18, after 6 cases had occurred, measles vaccine was recommended for all children in the day-care center who were 11 months of age or older. At that time, the youngest child with measles was 11 months old. However, on May 2, following the occurrence of measles in 2 more children, ages 8 and 9 months, the recommendations were changed to cover all children 6 months of age or older. Four of the last 7 (57%) cases occurred in children less than 10 months of age.

Reported by WT Morgan, MD, Col, Madigan Army Medical Center, Ft. Lewis, Washington; E Peterson, Pierce County Health Dept; D Fouts, Immunization Unit, Washington State Dept of Social and Health Services; Surveillance and Assessment Br, Immunization Div, Bur of State Services, CDC.

FIGURE 1. Measles cases in a day-care center, by date of onset and age, Washington, April 13-May 22, 1980



*Measles — Continued***TABLE 1.** Age distribution of measles cases among children at a day care center, Pierce County, Washington, April 13-May 22, 1980

| Age (months) | Cases | Percent |
|--------------|-------|---------|
| 6-8 | 3 | 18 |
| 9-11 | 3 | 18 |
| 12-14 | 5 | 29 |
| 15-16 | 6 | 35 |
| Total | 17 | 100 |

Editorial Note: The U.S. Public Health Services Immunization Practices Advisory Committee (ACIP) recommends that measles vaccine be preferably administered at 15 months of age to achieve maximal rates of seroconversion (3). Since many children are susceptible to measles before 15 months of age, measles outbreaks may still occur when there are concentrations of susceptible infants, such as in day-care centers.

When there is likely exposure to measles, the ACIP recommends that measles immunization be offered to children as young as 6 months of age (3). In this outbreak, measles vaccine was initially recommended for children 11 months of age or older because of 1 recent report that earlier vaccination induced an altered immune response to measles revaccination in 19 (51%) of 37 infants (4). However, it is not clear whether any of these 19 infants would be susceptible to measles following future exposure. When cases occurred in younger children at the day-care center, the recommendations were changed to include all children 6 months of age or older. The outbreak ended shortly after these changes were made. It is not possible to determine whether the outbreak terminated spontaneously or as a result of the vaccination of the younger infants.

In a day-care center believed to be at risk, the most direct method of preventing such outbreaks is to lower the age for vaccination in center attendees to protect susceptible children younger than 15 months of age. There are also several other measures which decrease the chance of introducing measles into day-care centers: passage and enforcement of strict immunization laws for older day-care children and employees, vaccination of all school-age children lacking evidence of measles immunity, and increased emphasis on reaching susceptibles who have left high school. With the beginning of the school year, it is particularly important to enforce existing school laws to ensure that all school-children are adequately protected against measles.

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3. MMWR 1978;27:427-30, 435-7.
4. Wilkins J, Wehrle PF. Additional evidence against measles vaccine administration to infants less than 12 months of age: altered immune response following active/passive immunization. *J Pediatr* 1979;94:865-9.

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The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

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