CENTERS FOR DISEASE CONTROL



MORBIDITY AND MORTALITY WEEKLY REPORT

- 289 Ectopic Pregnancy United States, 1981-1983
- 291 Horsemeat-Associated Trichinosis France
- 298 Blood Lead Levels among Office Workers — New York City

Ectopic Pregnancy — United States, 1981-1983

During 1981, 68,000 ectopic pregnancies were reported in the United States; the number decreased to 61,800 in 1982 and increased again to 69,600 in 1983 (Table 1). Over the 14-year surveillance period of 1970-1983, the rate of ectopic pregnancy increased more than threefold from 4.5 per 1,000 pregnancies* in 1970 to 14.0/1,000 in 1983 (Table 1, Figure 1). The rate per 1,000 live births increased fourfold from 4.8 in 1970 to 19.2 in 1983, and the rate per 10,000 females 15-44 years of age increased threefold from 4.2 to 12.6 during 1970-1983. The mortality rate continued to decrease from 0.9/1,000 ectopic pregnancies in 1980 to 0.5/1,000 in 1983 (Figure 2).

Preliminary analysis has revealed that for 1981-1983, as for 1970-1980, the highest rates of ectopic pregnancy were among women 35 years of age or older and among women of black and other races. However, unlike 1970-1980, when the highest rates of ectopic

* Includes ectopic pregnancies, legally induced abortions, and live births.

			Rates	
Year	No.*	Females 15-44 yrs. [†]	Live births [§]	Reported pregnancies [¶]
1970	17,800	4.2	4.8	4.5
1971	19,300	4.4	5.4	4.8
1972	24,500	5.5	7.5	6.3
1973	25,600	5.6	8.2	6.8
1974	26,400	5.7	8.4	6.7
1975	30,500	6.5	9.8	7.6
1976	34,600	7.2	11.0	8.3
1977	40,700	8.3	12.3	9.2
1978	42,400	8.5	12.8	9.4
1979	49,900	9.9	14.3	10.4
1980	52,200	9.9	14.5	10.5
1981	68,000	12.7	18.7	13.6
1982	61,800	11.5	17.0	12.3
1983	69,600	12.6	19.2	14.0
Total	563,300	8.3	11.8	9.2

TABLE 1. Numbers and rates of reported ectopic pregnancies, by year — United States, 1970-1983

*Rounded to nearest 100.

[†]Rate per 10,000 females.

[§]Rate per 1,000 live births.

 \P Rate per 1,000 reported pregnancies (live births, legally induced abortions, and ectopic pregnancies).

Ectopic Pregnancy - Continued

FIGURE 1. Ectopic pregnancy rates per 1,000 reported pregnancies, by year, — United States, 1970-1983

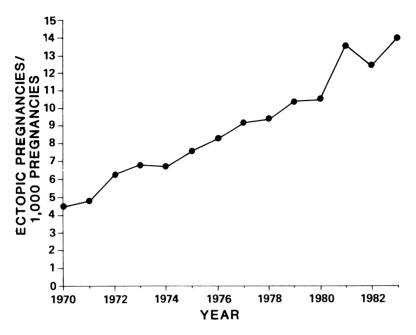
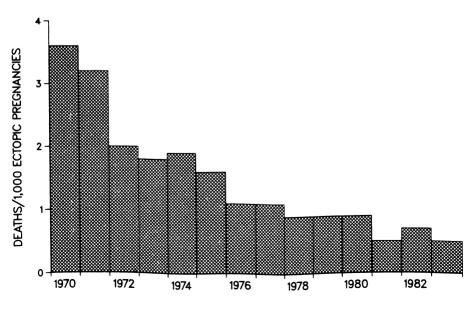


FIGURE 2. Mortality rates for women with ectopic pregnancies, by year, - United States, 1970-1983



Vol. 35/No. 18

MMWR

Ectopic Pregnancy – Continued

pregnancy occurred in the Northeast and the lowest occurred in the South, during 1981-1983, the highest rates were in the West, and the lowest, in the Northeast.

As in 1970-1980, in 1981-1983 there was no substantial difference in the risk of dying from ectopic pregnancy among women of different age groups. The mortality rate was highest in the South and lowest in the West. However, women of black and other races had a threefold higher risk of death from ectopic pregnancy than white women, compared with a 3.6-fold higher risk during 1970-1980.

Reported by Pregnancy Epidemiology Br, Research and Statistics Br, Div of Reproductive Health, Center for Health Promotion and Education, CDC.

Editorial Note: CDC has previously reported on ectopic pregnancy in the United States for 1970-1980 (1). Data on ectopic pregnancy incidence were obtained from the National Hospital Discharge Survey of the National Center for Health Statistics. The increasing incidence of ectopic pregnancy is probably related to improved diagnostic technology, as well as to an increased incidence of pelvic inflammatory disease (2). There is no ready explanation for the out-of-proportion increase in the number and rate of ectopic pregnancies in 1981.

Ectopic pregnancy mortality data for 1979-1982 were obtained from CDC's Ectopic Pregnancy Mortality Surveillance. For the other years, mortality data were obtained from death certificate data from NCHS. Numbers from those two sources have been found to be comparable.

Mortality due to ectopic pregnancy dropped dramatically in the early 1970s and more slowly during the recent years (Figure 2). Overall, the mortality rate decreased sevenfold from 3.5 deaths/1,000 ectopic pregnancies in 1970 to 0.5/1,000 in 1983.

References

- MacKay HT, Hughes JM, Hogue CJR. Ectopic pregnancy in the United States, 1979-1980. In: CDC surveillance summaries. Atlanta, Georgia: Centers for Disease Control, 1984;33(No. 2SS):1SS-7SS.
- Washington AE, Cates W Jr, Zaidi AK. Hospitalizations for pelvic inflammatory disease: epidemiology and trends in the United States, 1975 to 1981. JAMA 1984;251:2529-33.

Horsemeat-Associated Trichinosis — France

In August and October 1985, two outbreaks of trichinosis associated with consumption of horsemeat occurred in France. Brief reports follow.

Outbreak 1. During the week of August 12, 1985, several cases of trichinosis were diagnosed in Melun, a town located 30 miles southeast of Paris. Shortly thereafter, several more cases were diagnosed from a southern district of Paris in the 14th arrondissement. An investigation was undertaken to determine the extent and source of this outbreak. Cases of trichinosis were identified through review of medical records from private and public laboratories and contact with local physicians in the two areas where the initial cases were identified. Three hundred seventy-five (92%) of 409 persons with potential trichinosis were interviewed. A case was defined as an individual with (1) a *Trichinella*-positive muscle biopsy, with recent signs and symptoms suggestive of trichinosis; (2) positive indirect immunofluorescence test (titer greater than 1:100) for *Trichinella* antibodies, with recent signs and symptoms suggestive of trichinosis; or (3) at least three of the following signs and symptoms suggestive of trichinosis: eosinophilia, fever, myalgia, and/or periorbital edema.

Three hundred twenty-five individuals met the case definition. One hundred fifty-nine (49%) of the patients were from the 14th arrondissement of Paris, and 166 (51%) were from Melun. Patients' ages ranged from 2 years to 86 years (mean 41 years). One hundred sixty-six (51%) were male. Age distribution by sex was similar.

Diagnosis was made by a positive muscle biopsy in one patient, positive serology in 234

Trichinosis – Continued

(72%), and clinical presentation in 90 (28%). Of the symptoms compatible with trichinosis, myalgia was reported among 306 (94%) of the patients; fever, among 293 (90%); facial edema, among 189 (58%); diarrhea, among 169 (52%); and rash, among 137 (42%). Twenty percent of the patients complained of neurologic symptoms, including paresis, oculomotor dysfunction, visual field changes, dyaesthesia, and dizziness. Onset of symptoms, known for 288 (89%) patients, occurred between July 29, and September 15, 1985 (Figure 3). Two patients died—an 86-year-old man, and a 65-year-old man with a history of heart disease. Four patients were pregnant; one had a miscarriage during the sixth week of pregnancy. Examination of fetus and placenta revealed no larva. The other three women delivered healthy babies.

The investigation implicated horsemeat as the source of the outbreak. All 325 patients reported consuming horsemeat—99% of whom ate it raw or rare—before onset of illness, compared with 38% of a random sample of 198 people questioned on a street in the 14th arrondissement of Paris. Family members of patients who did not eat any horsemeat but shared other food with the patients did not become infected with trichinosis. Similarly, a case-control study in a Melun prison showed that all cases and no controls had ingested horsemeat. Although several butchers in Paris and Melun sell horsemeat, all patients purchased their horsemeat exclusively from one of two shops between July 22 and August 5. The butchers from *(Continued on page 297)*

		18th Week En	ding	Cumulative, 18th Week Ending				
Disease	May 3, 1986	May 4, 1985	Median 1981-1985	May 3, 1986	May 4, 1985	Median 1981-1985		
Acquired Immunodeficiency Syndrome (AIDS)	195	82	N	4,306	2.293	N		
Aseptic meningitis	63	84	84	1,459	1,248	1,366		
Encephalitis: Primary (arthropod-borne		•						
& unspec.)	6	22	18	260	317	317		
Post-infectious	4		3	30	48	34		
Gonorrhea: Civilian	13,123	14.832	18.226	274.042	269.233	307,418		
Military	138	347	439	5,197	6.425	8,293		
Hepatitis: Type A	277	402	402	7.528	7.404	7,894		
Type B	469	455	464	8.587	8.536	7,900		
Non A, Non B	60	72	Ň	1,145	1,445	N		
Unspecified	91	105	147	1.704	1.817	2,522		
Legionellosis	6	9	N	186	210	_,011		
Leprosy	6	9	7	99	146	75		
Malaria	17	17	19	244	247	247		
Measles: Total*	170	81	81	2.227	1.082	1.082		
Indigenous	160	48	Ň	2,153	864	N		
Imported	10	33	Ň	74	218	Ň		
Meningococcal infections: Total	45	58	62	1.104	1.070	1.247		
Civilian	45	58	62	1,102	1.067	1,245		
Military		50	02	2	3	1,245		
Mumps	42	77	96	1,150	1.435	1.526		
Pertussis	38	26	26	739	521	521		
Rubella (German measles)	4	16	27	180	151	418		
Syphilis (Primary & Secondary): Civilian	552	498	529	8.528	8.623	10.366		
Military	552		4	72	70	124		
Toxic Shock syndrome	3	10	Ň	127	138	124 N		
Tuberculosis	418	411	441	6.780	6.775	7,598		
Tularemia	410		441	19	29	7,598		
Typhoid fever	6	14	5	78	99	126		
Typhus fever, tick-borne (RMSF)	3	17	17	32	51	53		
Rabies, animal	128	116	142	1,829	1,683	2,040		

TABLE I. Summary-cases specified notifiable diseases, United State	TABLE I. Summar	v-cases specified	notifiable	diseases	. United State
--	-----------------	-------------------	------------	----------	----------------

TABLE II. Notifiable diseases of low frequency, United States

	Cum 1986		Cum 1986
Anthrax	-	Leptospirosis	15
Botulism: Foodborne	4	Plague	
Infant .	21	Poliomyelitis, Paralytic	-
Other	-	Psittacosis (Tex. 1, N. Mex. 2)	19
Brucellosis (Va. 1)	18	Rabies, human	
Cholera	-	Tetanus (R.I. 1)	13
Congenital rubella syndrome (Calif. 1)	2	Trichinosis	7
Congenital syphilis, ages < 1 year Diphtheria	11	Typhus fever, flea-borne (endemic, murine) (Tex. 2)	8

Eight of the 170 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.

			r	May 3 , 1	986 and	May 4, 198	5 (18th	Week)		-		
	AIDS	Aseptic Menin-	Encep	phalitis	Gon	orrhea	н	epatitis (V	(iral), by ty	ре	Legionel	
Reporting Area	AIDS	gitis	Primary	Post-in- fectious		vilian)	A	в	NA,NB	Unspeci- fied	losis	Leprosy
	Cum. 1986	1986	Cum 1986	Cum. 1986	Cum 1986	Cum 1985	1986	1986	1986	1986	1986	Cum 1986
UNITED STATES	4,306	63	260	30	274,042	269,233	277	469	60	91	6	99
NEW ENGLAND Maine N H	171 9 7	-	9 - 2	1	6,286 334 175	8,270 338 173	8	36	4	7	•	2
Vt Mass	2 92	-	2	1	95	85	-	1	1	-	-	
R I Conn	92 9 52	-	2 - 3	-	2,659 623 2,400	3,058 611 4,005	6 2	24 1 10	2 1	7 - -	-	2
MID ATLANTIC Upstate N Y	1,641 123	3 1	43 15	1	48,774 5,499	37,612 5,328	12 3	38 5	4 2	3		9 1
N Y. City	1,163	-	10	-	28,402	17,161	-	2	1	2	-	7
N J Pa	268 87	2	5 13	1	6,505 8,368	7,177 7,946	9	31	1	1	-	1
EN CENTRAL Ohio	228 30	8 2	52 15	4 2	31,679 8,980	38,504 9,750	17 8	50 29	4 3	7 1	2	4
Ind III	26 106	1 2	5 10	2	4,029 5,209	3,864 10,849	1 4	4	1	3	-	-
Mich Wis	52 14	3	21 1	-	11,536 1,925	11,016 3,025	4	15	-	3	1	3
W N CENTRAL Minn	81 38	1 1	9	6	12,345 1,865	13,675 2,001	15	19 6	3	2	-	1 1
lowa Mo	7	-	4	-	1,241	1,462	2	1	-	-	-	-
N Dak	20 2	-	-	-	6,158 113	6,328 96	8	9	3	2	-	-
S Dak Nebr	1 3	-	-	-	246 881	252 1,304	1	-	:	-		-
Kans	10	-	-	6	1,841	2,232	4	3	-	-	-	-
S ATLANTIC Del	583 10	19	44 3	11	66,599 1,170	57,510 1,299	15 1	99 2	12 1	5	1	1
Md D C	59 86	4	10	-	8,173 5,561	9,487 4,916	2	22 1	2	-	-	-
Va	61	2	16	-	6,098	6,210	2	10	3	-	-	1
W Va N C	2 26	-	6 8	1	850 11,878	854 10,364	-	3 10	2	-	-	-
S C Ga	16 79	3			6,392 6,682	6,911	3	13 17	1	-	-	-
Fla	244	10	1	10	19,795	17,469	7	21	2	5	1	
ES CENTRAL Ky	43 12	2	19 8	1	23,658 2,778	23,482 2,574	5 1	44 3	1	1	-	-
Tenn Ala	19	2	1	1	9,285	9,240 7,375	3	21 17	1	1		-
Miss	8 4	-	9 1	-	6,630 4,965	4,293	1	3	-	-		-
W S CENTRAL Ark	344 10	7	22	1	34,977 3,346	38,106 3,656	57 4	37 4	5 1	29 1	2	7
La Okla	51 16	2	2 5	-	6,249 4,012	7,780 3,928	- 8	- 3	2	2		-
Tex	267	5	15	1	21,370	22,742	45	30	2	26	2	7
MOUNTAIN Mont	116 3	4	12	1	9,052 239	8,887 263	23 1	28	6	6	-	7
Idaho	1	2	-	1	282	294	2	-	-	-		-
Wyo Colo	2 65	1	2 2	-	201 2,338	220 2,665	2	6	-	4	-	3
N Mex Ariz	6 22	1	1 5		907 2,910	1,054 2,635	17	15	- 5		:	2
Utah Nev	6 11	-	1 1	-	372 1,803	376 1,380	1	3	1	2	-	2
PACIFIC	1,099	19	50	4	40,672	43,187	125	118	21	31	1	68
Wash Oreg	34 23	1	5	-	3,074 1,636	3,071 2,194	16 17	13 16	3 6	-	1	7
Calif Alaska	1,023	18	43 2	4	34,420 1,084	36,192 1,064	91 1	86 2	12	31	-	52
Hawaii	10	-	-	-	458	666	-	1	-	-	-	9
Guam P R	48	- U	2	-	34 748	67 1,313	3 U	U	- U	2 U	U	1
V.I Pac Trust Terr	-	-	-	-	74 66	162 322	-	-	-	-	-	-
Amer Samoa	-	-		-	13	- 322	12 1	-	-	-		1

TABLE III. Cases of specified notifiable diseases, United States, weeks ending May 3, 1986 and May 4, 1985 (18th Week)

N Not notifiable

Ľ

	_				viay 3,	1986	and r	May 4, 1	985 (1	Sth V	(eek)					
Lum Lum Jase Jase Lum Lum </th <th>Reporting Area</th> <th>Malaria</th> <th>Indig</th> <th></th> <th>_</th> <th></th> <th>Total</th> <th>gococcal</th> <th>Mur</th> <th>nps</th> <th></th> <th>Pertussis</th> <th></th> <th></th> <th>Rubella</th> <th></th>	Reporting Area	Malaria	Indig		_		Total	gococcal	Mur	nps		Pertussis			Rubella	
NUMEWEIGLAND 13 . 16 . . 80 1 33 1 10 12 1 10 12 1 10 12 1 10 12 1 <th1< th=""> 1 1 1<!--</th--><th>Reporting Area</th><th></th><th>1986</th><th></th><th>1986</th><th></th><th>Cum. 1985</th><th></th><th>1986</th><th></th><th>1986</th><th>Cum. 1986</th><th></th><th>1986</th><th></th><th>Cum 1985</th></th1<>	Reporting Area		1986		1986		Cum. 1985		1986		1986	Cum. 1986		1986		Cum 1985
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	UNITED STATES	244	160	2,153	10	74	1,082	1,104	42	1,150	38	739	521	4	180	151
Minime - - - - 1 - - - 1 - - 1 - - 1 - 1 - 1 1 - - 1 1 - 1 1 - 1 1 - 1 1 1 - 1 <td></td> <td>13</td> <td>-</td> <td>16</td> <td>-</td> <td>-</td> <td>89</td> <td></td> <td>1</td> <td>35</td> <td></td> <td></td> <td>26</td> <td>-</td> <td>1</td> <td>6</td>		13	-	16	-	-	89		1	35			26	-	1	6
VI. 1		-		-	-	-	-		-	10	-			-		-
RL 1 1 1 6 1	Vt.		-	-	-	-	-		-	-	-			-		2
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						-	87				-			-	-	4
Upstate NY 6 2 4 4 1 5 6 35 5 3 7 2 7 5 6 3 2 1 7 3 7 1 7 5 1 7 3 3 31 713 7 27 1 1 6 - 5 1 - 3 9 7 1 7 5 1 7 7 27 1 1 6 - 5 1 - 3 9 7 1 1 6 7 6 1 7 7 1 1 6 7 6 1 7 7 1 1 6 7 6 1 7 7 1 1 6 7 6 1 1 7 7 7 7						-	2		-		-			-	-	-
Upstate NY 6 2 4 4 7 9 6 35 5 3 - 27 - 59 32 - 7 7 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	MID ATLANTIC	28	87	871	4	. 7	74	179	3	66		85	62	-	25	37
NJ 3 31 713 . . 7 27 1 16 . 5 1 3 3 1 11 . . 18 20 . 18 20 . 18 20 . 11 . 14 60 1 56 . 13 . . 11 14 16 . 16 13 . . 11 . 14 160 1 56 1 . 150 11 . 11 . 11 . 11 14 36 31 . . 14 33 10 100 1 17 7 . 2 1 16 . 11 . 11 . 11 . 11 . 11 . 11 11 12 13 11 . 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 11 11<							35			27		59	32		17	8
Pa. 11 - - - 8 63 2 18 20 - 12 Chino - - - 2 356 138 11 542 1 142 76 - 7 11 Ohio - - - 14 14 1 16 - 63 13 - 7 11 Ind 3 8 133 - - 248 33 10 100 17 7 - 2 1 Wis - 97 - 2 47 1 - 92 - 2 33 - 1 1 16 13 - - 1 - 1 1 1 26 15 - 6 15 . 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>24</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>12</td></t<>							24									12
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Pa.			-	-	-								-		12
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			8	230		2					1		76	-	7	11
III 3 8 133 - - 219 30 - 276 - 18 12 - 4 Wis - - 97 - 2 47 1 92 - 28 33 - 1 Wis - - 97 - 2 47 1 92 - 28 33 - 1 Min 2 2 10 4 2 11 1 4 24 11 - 1 Mon 2 - 2 2 13 2 2 13 - - 1 1 4 24 11 - 2 2 2 13 3 - - - - - - - 2 2 2 1 1 1		2	-	-							-			-		-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IN.		8	133										-		5
W N CENTRAL 6 9 102 4 7 5 61 \cdot 55 8 45 45 \cdot 7 6 Minn. 2 2 10 2 \cdot 7 2 2 13 \cdot 1 4 24 11 \cdot 7 6 Mo 2 2 \cdot 2 2 \cdot 3 2 22 \cdot 13 \cdot 4 9 \cdot 1 \cdot 7 No bak 1 \cdot 1 \cdot 1 \cdot 7 \cdot 10 1 6 3 \cdot 1 \cdot 7 No bak 1 \cdot 1		3		- 07					10			17	7		2	5
$\begin{array}{llllllllllllllllllllllllllllllllllll$									-	92	-	28	33	-	1	1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					4 2 t									-	7	8
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	lowa	1	-	-	-									-	-	
S Dak . <td></td> <td>2</td> <td>-</td> <td>2</td> <td></td> <td>3</td> <td></td> <td>22</td> <td></td> <td>13</td> <td>-</td> <td>4</td> <td>9</td> <td>-</td> <td>1</td> <td>-</td>		2	-	2		3		22		13	-	4	9	-	1	-
Nebr. 1 - - - 7 - - 1 - - - 1 - - - 1 - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>- 1</td> <td></td> <td></td> <td></td> <td></td> <td>6</td> <td>-</td> <td>-</td> <td>1</td>		-	-	-	-			- 1					6	-	-	1
SATLANTIC 30 13 297 - 8 126 231 6 89 25 221 123 - 6 11 Del - - - - - - 1 6 89 25 221 123 - 6 11 Del - - - 2 2 10 - 22 107 -		1	:		-	-		7	-	-	-	-	1	-	-	-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-	7	90	-	1	1	11	-	28	-	6	15	-	6	7
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		30	13		-	8	126		6				123	-	6	19
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Md	4	5		-	5	16		-				43	-	-	1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	-	-	-			-	-	-	-	-	-	-	-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		6			-	1			1		-		3	-	-	1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			-	-		-		38					7	-	-	6
Fia 12 11 1 80 56 4 17 1 80 24 6 ES.CENTRAL 5 1 2 - - - 62 1 15 1 16 4 - 1 Ky, 2 - - - - 11 - 2 1 1 - 1 - 1 - 1 - 1 1 - - - 1 1 1 1 - - - - 1 1 1 0 2 - <				264		-							-	-	-	2
Ky 2 - - - - 1 - 2 - 1 <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<>				11										-	- 6	9
Ky. 2 - - - 11 - 2 - 1 1 1 Ala 2 - - - 27 1 11 - 5 1 - - 1 Miss 1 1 1 - - - 7 - 1 10 2 - - Miss 1 1 1 - - - 7 - 1 - <td>E.S. CENTRAL</td> <td>5</td> <td>1</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>62</td> <td>1</td> <td>15</td> <td>1</td> <td>16</td> <td>4</td> <td></td> <td>1</td> <td>1</td>	E.S. CENTRAL	5	1	2	-	-	-	62	1	15	1	16	4		1	1
Ala 2 1		2	-			-	-	11	-	2		1		-		i
Miss 1 1 1 - - 7 - 1 - - - 7 1 - - - 1 - - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 <th1< th=""> <th1< th=""></th1<></th1<>				1		-								-	-	-
Ark . . 271 . 2 . 12 1 7 . 2 9 . . 3 2 . . . 3 2 3 2 3 2 . </td <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>- 10</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>				1		-					-	- 10	-	-	-	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		18	-	302	-	24	65	81	7	91	-	26	61	-	35	14
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-					-		1	7	-	2	9		-	1
Tex 12 31 - 18 58 48 6 84 - - - 35 1 MOUNTAIN 6 24 141 - 8 273 45 3 128 - 86 22 - 1 Mont - - - 1 134 5 - 3 - 1 3 - - - 1 3 - - 1 3 - - - - 1 3 - - - - - - 1 1 - 2 2 2 6 - 1 - - - - 3				-					Ň	- N	-				•	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Tex		-	31	-		58				-	-			35	13
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		6	24	141	-			45	3	128	-	86	22	-	1	3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$:	-	-	-				-		-			-	-	
			-	-	-				-	2	-	26		-	-	1
Ariz 2 24 123 - 121 13 3 113 - 23 4 - 1 Ulah 1 - - - - 5 - 1 - 9 4 -		1	-					8	-		-			-	-	-
Utah 1 - - - - 5 - 1 - 9 4 - - - - 5 - 1 - 9 4 - - - - 5 - 1 - 9 4 - - - - 5 - 1 - 9 4 - 1 <td></td> <td></td> <td>24</td> <td></td> <td>-</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>1</td>			24		-	4					-			-	-	1
PACIFIC 130 18 192 2 18 94 227 10 129 3 75 102 4 97 5 Wash 10 2 37 7 1 30 - 5 - 26 16 1 2 Wash 10 2 37 - 7 1 30 - 5 - 26 16 1 2 Oreg 9 - - 2 3 18 N N - 5 16 - - - - 2 3 18 N N - 5 16 -	Utah		- 24		-	-			-		-			-		1
Wash 10 2 37 - 7 1 30 - 5 - 26 16 1 2 Oreg 9 - - 2 3 18 N N - 5 16 1 2 Oreg 9 - - 2 3 18 N N - 5 16 1 2 Calif. 111 16 136 2^+ § 8 83 170 9 112 2 40 65 3 94 33 Alaska - - - 8 - 4 - 1 2 - - - 4 1 3 3 - 1 1 Guam 1 - 3 - 1 7 1 1 8 1 3 3 - 1 1 Guam 1 - 3 - 10 - 2 - 2 2 2 2 2	Nev	1	-	-	-	-	-	6	-	3	-	-	-	-	-	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					2				10		3			4		52
Calif. 111 16 136 2 [†] § 8 83 170 9 112 2 40 65 3 94 3 Alaska 8 - 4 - 1 2 Hawaii - 19 - 1 7 1 1 8 1 3 3 - 1 1 Guam 1 - 3 10 2 2 P.R. 3 U - U - 40 2 U 15 U 4 1 U 58 VI 9 7 Pac. Trust Terr 1 1				37	-				- N		-			1	2	2
Alaska 8 - 4 - 1 2 Hawaii 19 - 1 7 1 1 8 1 3 3 - 1 1 Guam 1 _ 3 10 2 2 P.R. 3 U - U - 40 2 U 15 U 4 1 U 58 VI 9 7 Pac. Trust Terr 1 1	Calif.			136	2 † §						2			3	94	1 37
Guam 1 - 3 10 2 2 P.R. 3 U - U - 40 2 U 15 U 4 1 U 58 VI 9 7 Pac. Trust Terr 1 1		-		-	:	1	-	8	-	4	-	1	2	-	-	12
-7R 3 U - U - 40 2 U 15 U 4 1 U 58 /I		-	-		-	•		,	•		'	3	3	-		
/.l 9 7			ū		Ū	-		- 2	- U		ū	4	- 1	ñ		1 8
A		-	-	-	-	-	9	-	-	7		-	-	<u>.</u>	-	-
	Amer. Samoa	-	-	-	-		-	-	1	1	-	-	-	-	-	•

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending May 3, 1986 and May 4, 1985 (18th Week)

*For measles only, imported cases includes both out-of-state and international importations.

N Not notifiable U Unavailable

Reporting Area	Syphilis (Primary & S		Toxic- shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies Anima
hepotting Area	Cum. 1986	Cum. 1985	1986	Cum 1986	Cum. 1985	Cum 1986	Cum 1986	Cum 1986	Cum 1986
UNITED STATES	8,528	8,623	3	6,780	6,775	19	78	32+4	1,829
NEW ENGLAND	173	191	-	204	237	-	3	1	2
Maine N.H.	11	7 3	-	19 4	16 10	-	-	-	-
Vt.	6	-	-	7	4		-	-	-
Mass. R.I.	85	99	-	104	143	-	2	1	- 1
Conn.	12 53	6 76	-	14 56	21 43	-	1	-	1
MID ATLANTIC	1,216	1,140	-	1,394	1,264	-	7	1	168
Upstate N.Y N Y City	64	88	-	209	202	-	1	1	25
N J.	671 242	704 243	-	674 257	652 128		4 2	-	1
Pa	239	105	-	254	282	-	-	-	139
EN CENTRAL	256	416	2	862	827	-	4	3+1	35
Ohio Ind	45 41	52 34	1	133 96	146 103	-	-	2	3
10.	92	214	-	383	366	-	-		13
Mich. Wis	56 22	96 20	1	205 45	168 44	-	3 1	1	4
W.N. CENTRAL	96	91		187	168	6	4	1	265
Minn	16	23	-	47	33	-	ī		26
lowa Mo	5	14	-	16	27	1	-	-	61
N Dak	49 2	35	-	92 3	76 2	5	3	-	23 62
S Dak Nebr	1	4	-	8	7	-	-	-	64
Kans	8 15	6 9	-	4 17	7 16		-	1	5 24
S ATLANTIC	2,370	2,127	-	1,299	1,374	4	8	9 +2	431
Del Md	12	16	-	16	14	-	-	-	-
DC	164 129	153 126	-	94 51	113 67	1	1	-	260
Va	154	117	-	127	114	1	2	1	74
W.Va NC	8 186	4 248	-	46 195	32 173	- 1	2	2	10
SC	246	253	-	151	166	-	-	5 Z	13
Ga Fla	256	1 210		172 447	206 489	1	2	1	52 21
S CENTRAL	1,215	1,210	-			-	2	o+ 1	
y CENTRAL	596 25	762 31	-	592 155	604 119	3 2	-	8+1	109
Tenn	223	219	-	160	182	1	-	2	56
Ala Miss	206 142	244 268	-	193 84	209 94	-	-	2 3	26
NS CENTRAL	1,814	2,195		822	744	5	4	8	267
Ark.	93	113	-	92	83	3	-	-	58
_a Okla	303 56	363 60		171 74	119 80	2	1	6	6 21
Tex	1,362	1,659	-	485	462	-	3	2	182
	212	287	1	140	165	-	3	1	317
Vont daho	2 2	1 2		7 5	19 6	-	-	-	118
Nyo	-	5		-	3	-	-	1	143
Colo N Mex	65 26	63 36		2 34	18 32	-	1	-	- 3
Ariz	93	163	-	68	76	-	1	-	53
Jtah Nev	4 20	3 14	1	11 13	5 6	-	1	-	-
ACIFIC	1,795	1,414		1,280	1,392	1	45	_	235
Wash	27	52		72	68	-	2	-	200
Dreg Calif	35 1,716	32 1,302		46 1,084	48	:	41	-	
Alaska	•	1		1,084	1,161 50	1	41	-	227 8
lawaii	17	27	-	61	65	-	2	-	-
Guam 2.R	1 284	2	-	-	14	-	-		
/.i.	284	310 1	U	81 1	108 1	-	2	-	15
ac. Trust Terr.	105	22	-	10	26	-	25	-	-

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending May 3, 1986 and May 4, 1985 (18th Week)

U Unavailable

TABLE IV. Deaths in 121 U.S. cities,* week ending May 3, 1986 (18th Week)

		All Caus	es, By A	ge (Year	s)		<u> </u>			All Caus	es, By A	ge (Years	s)		
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I** Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I** Total
NEW ENGLAND	702	486	130		15	27	65	S. ATLANTIC	1,433	826	340	154	50	61	47
Boston, Mass	181	109	39	13	7	13	21	Atlanta, Ga.	143	84	43	6	7	3	5
Bridgeport, Conn.	59 22	38 17	13 4	4 1	2	2	6 7	Baltimore, Md.	239 54	147	57 13	22 3	10	3 1	4 2
Cambridge, Mass. Fall River, Mass.	22	16	6		-	1		Charlotte, N.C. Jacksonville, Fla	117	35 79	29	3 4	2 3	2	2
Hartford, Conn.	67	43	2Ŏ	3	-	1	4	Miami, Fla.	120	78	28	7	-	7	-
Lowell, Mass.	27	22	3	1	1	÷	1	Norfolk, Va	71	42	15	5	2	7	9
Lynn, Mass.	22	17	4	-	-	1	1	Richmond, Va	87	53	21	4	2	7	3
New Bedford, Mass New Haven, Conn.	s 27 46	25 28	2 7	7	2	2	3 5	Savannah, Ga.	53 107	32 77	18 18	- 6	3 2	4	4
Providence R1	66	48	ś	6	2	2	5	St. Petersburg, Fla. Tampa, Fla.	81	54	19	5	1	4	7
Somerville, Mass	11	10	-	ĩ	-	-	-	Washington, D.C.	324	119	71	эŏ	17	26	6
Springfield, Mass	44	32	9	1	-	2	4	Wilmington, Del	37	26	8	2	1		1
Waterbury, Conn.	30	22	3	4	1	3	2	, , , , , , , , , , , , , , , , , , ,							
Worcester, Mass	77	59	12	3	-	3	6	E.S. CENTRAL	794	520	191	35	16	32	43 2
MID ATLANTIC	2,918	1.924	603	262	44	85	149	Birmingham, Ala.	129	78 39	34 14	4	2	11	6
Albany, N.Y.	55	39	10	2		4	-	Chattanooga, Tenn Knoxville, Tenn	76	52	18	3	3		9
Allentown, Pa.	22	20	2	-	-	-	-	Louisville, Ky.	155	92	41	9	3	10	6
Buffalo, N.Y.	118	86	21	6	-	5	9	Memphis, Tenn	142	103	32	2	3	2	4
Camden, N.J.	38	24	9	3	-	2	-	Mobile, Ala	63	40	15	3	-	5	6
Elizabeth, N.J. Erie, Pa.†	27 36	19 23	6 12	2	-	-	1 4	Montgomery, Ala	57	40 76	11	2	1	3 1	2 8
Jersey City, N.J.	56	32	15	ż	1	1	-	Nashville, Tenn.	118	/6	26	11	4		8
	1,482	977	296	163	21	25	64	W.S. CENTRAL	1,375	835	341	119	46	31	62
Newark, N.J.	83	35	17	13	4	14	5	Austin, Tex.	60	42	13	4	ĩ	-	2
Paterson, N.J.	33	22	3	3	-	5		Baton Rouge, La.	69	42	20	3	4	-	3
Philadelphia, Pa.	517 55	327 38	121	34	13	22	35	Corpus Christi, Tex		24	8	6	1	1	3
Pittsburgh, Pa.† Reading, Pa.	39	33	16 5	1	-	1	2	Dallas, Tex.	158 78	100 40	40 20	13 10	2 5	3	1 9
Rochester, N.Y.	121	77	28	11	4	1	12	El Paso, Tex. Fort Worth, Tex.	99	58	20	6	5	4	3
Schenectady, N.Y.	33	24	6	2	-	1	3	Houston, Tex	297	170	77	34	10	6	11
Scranton, Pa.†	25	17	6	2	-	-	-	Little Rock, Ark	83	46	21	5	4	7	8
Syracuse, N.Y.	90	65	16	8		1	7	New Orleans, La.	108	68	25	12	-	3	-
Trenton, N.J. Utica, N.Y.	36 24	24 19	7 5	2	1	2	3	San Antonio, Tex.	216	132	50	19	12	3	12
Yonkers, N.Y.	28	23	2	2	-	1	4	Shreveport, La. Tulsa, Okla	76 91	48 65	20 21	5 2	2	1 3	1 9
	2,210	1,478	459	125	65	83	94	MOUNTAIN	619	384	135	51	27	22	28
Akron, Ohio	69	48	12	3	3	3	2	Albuquerque, N.Me		52	17	6	4	1	2
Canton, Ohio	32	24 361	6	47	11	2 21	1 17	Colo. Springs, Colo		26	13	2	2	-	2
Chicago, III.§ Cincinnati, Ohio	564 97	59	124 27	4 <i>1</i>	3	1	11	Denver, Colo	113 80	62	23	16	9	3	4
Cleveland, Ohio	161	106	28	13	1	13	2	Las Vegas, Nev. Ogden, Utah	13	48 6	21 3	7	1	3 1	5 2
Columbus, Ohio	123	79	30	4	6	4	6	Phoenix, Ariz	144	93	33	7	5	6	5
Dayton, Ohio	103	73	23	3	2	2	3	Pueblo, Colo	14	10	3	-	-	1	ī
Detroit, Mich.	241	136	60	16	16	13	5	Salt Lake City, Utah		26	5	5	1	5	2
Evansville, Ind.	55 50	46	5 9	3 2	1 5	1	- 4	Tucson, Ariz	90	61	17	6	4	2	5
Fort Wayne, Ind. Gary, Ind.	10	4	3	2	1	2	1	PACIFIC	1.926	1.292	349	167	61	57	115
Grand Rapids, Mich		33	3	ĩ	ż	2	2	Berkeley, Calif	1,920	1,292	349	- 107	61,	57	. 115
Indianapolis, Ind.	190	130	42	8	4	6	4	Fresno, Calif	83	55	13	9	3	3	3
Madison, Wis.	29	23	3	1	2	-	5	Glendale, Calif.	39	36	2	-	1	-	3
Milwaukee, Wis	140	110	21	2	2	5	5	Honolulu, Hawaii	65	44	18	2	-	1	5
Peoria, III.	38 37	28 28	8 4	1	1	4	7	Long Beach, Calif.	120	83	19	8	3	7	18
Rockford, III. South Bend, Ind.	34	28	8	2	-	ĩ	3	Los Angeles, Calif. Oakland, Calif.	502 113	326 72	92 20	55 7	22 6	7 8	15 6
Toledo, Ohio	114	69	32	6	3	4	11	Pasadena, Calif.	38	26	4	5	-	3	1
Youngstown, Ohio	82	65	11	3	2	1	3	Portland, Oreg	117	86	21	4	2	4	5
W.N. CENTRAL	733	520	139	38	12	24	25	Sacramento, Calif. San Diego, Calif.	158 148	104 100	29 30	16	6 4	3 3	14 16
Des Moines, Iowa	73	520	12	38	1	24	25	San Diego, Calif. San Francisco, Calif		82	30	11 23	2	3 6	16
Duluth, Minn	27	21	6	-		-	ĩ	San Jose, Calif.	162	107	30	14	7	4	11
Kansas City, Kans	33	25	6	1	1	-		Seattle, Wash	136	87	28	12	3	6	5
Kansas City, Mo.	95	65	17	9	1	3	7	Spokane, Wash	62	44	14	-	2	2	7
Lincoln, Nebr	35	27	7	-	1	÷	5	Tacoma, Wash	36	28	7	1	-	-	1
Minneapolis, Minn.	87	61	13	6	2	5 4	1	TOTAL	12,710	t	0.007	0.05	226	422	
Omaha, Nebr. St. Louis, Mo.	84 174	55 131	18 27	7 5	5	4	2	IUIAL	12,710	8,265	2,687	995	336	422	628
St. Louis, Mo. St. Paul, Minn.	64	43	15	4	1	1	1								
Wichita, Kans	61	39	18	2	-	2	3								
				-											

* 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 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. thtotal includes unknown ages.

§ Data not available. Figures are estimates based on average of past 4 weeks.

Vol. 35/No. 18

Trichinosis – Continued

these two shops and their families were also infected with trichinosis. Records indicated that each shop received half of a single horse carcass on July 22. The carcass had been shipped as "fresh meat" to France from a slaughterhouse in Connecticut, which ships 8,000-9,000 horses to Europe each year. The establishment is inspected by the U.S. Department of Agriculture, but inspection did not include examination of meat samples for trichinae. Because horses are obtained by the slaughterhouse from multiple sources and are not individually identified on leaving the processing plant, the implicated horse could not be traced to farm of origin. No meat from the implicated horse was available for inspection.

Outbreak 2. Although not fully investigated at this time, a second outbreak of trichinosis occurred in France beginning October 3, 1985. Preliminary reports from physicians and hospitals suggest that up to 900 individuals were infected with trichinosis, most coming from three foci in Paris and its surroundings: Paris 12, Nogent/Marne, and Vitry/Seine. Six provincial foci were also involved but with smaller numbers of patients.

Imported horsemeat was again implicated as the source of the infection. All patients reported eating horsemeat purchased from one shop in each of the foci. Five of nine butchers selling the horsemeat at these shops and their families were infected. Records indicate that all of the implicated shops received portions of the same horse imported from West Germany. Three quarters of the horse were sold as fresh meat in the three main foci of the outbreak on September 12. The remaining quarter was deboned and vacuum-packed in 5- to 20-kg portions and was delivered to the six secondary provincial foci over the next 2 weeks.

Reported by T Ancelle, MD, J Dupouy-Camet, MD, F Heyer, MD, C Faurant, MD, J Lapierre, MD, Dept of Parasitology, Cochin Hospital, Paris, France; G Parham, DVM, W Leese, JC Leighty, DVM, Food Safety and Inspection Svc, US Dept of Agriculture, Beltsville, Maryland; Helminthic Diseases Br, Div of Parasitic Diseases, Center for Infectious Diseases, CDC.

Editorial Note: Horsemeat has rarely been implicated as a source of trichinosis. The first reported outbreaks due to this meat source occurred in Italy in 1975 (1) and in France in 1976 (2). In both instances, the infected horsemeat had been imported from Eastern Europe. How horses become infected with trichinosis is unknown. Horses are commonly observed to be herbivorous; however, experimental studies prompted by the outbreak in Italy indicate that horses will ingest meat placed in their feed and will become infected with trichinosis when

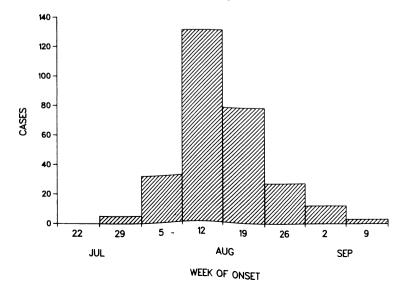


FIGURE 3. Horsemeat-associated trichinosis, by week of onset — France, 1985

Trichinosis - Continued

fed infective larvae (3). The unusually large numbers of cases involved in the two 1985 outbreaks are related to the size of the implicated animal species (the carcass of the horse associated with outbreak 1 was 278 kg) and the preference among French consumers for raw or lightly cooked horsemeat, prepared as steaks, in soups, or ground ("steak tartare"). At the time of the second outbreak, the French Ministry of Agriculture temporarily banned importation of horsemeat from all countries and will currently accept it only if certified trichinae-free by an approved inspection procedure.

Little is known about *Trichinella* infection in horses in the United States, but it is assumed to be extremely rare. Between late October and December 31, 1985, samples from 20,000 horses killed in the United States were examined for *Trichinella*, with negative results. Trichinosis in horses in the United States would presumably represent an unlikely public health hazard because few citizens eat horsemeat, and those who do probably cook it. Since 1975, 30 to 289 U.S. trichinosis cases have been reported per year, approximately 80% of which were associated with the ingestion of pork (4).

References

- 1. Mantovani A, Filippini I, Bergomi S. Indagini su un' epidemia di trichinellosi umana verificatasi in Italia. Parassitologia 1980;22:107-34.
- Bourée P, Bouvier JB, Passeron J, Galanaud P, Dormont J. Outbreak of trichinosis near Paris. Br Med J 1979;1:1047-9.
- Bellani L, Mantovani A, Pampiglione S, Filippini I. Observations on an outbreak of human trichinellosis in northern Italy. In: CW Kim, ZS Pawlowski, eds. Proceedings of the Fourth International Conference on Trichinellosis. University Press of New England, 1976:535-9.
- 4. Schantz PM. Trichinosis in the United States 1947-1981. Food Tech 1983;37:83-6.

Blood Lead Levels among Office Workers – New York City

On February 15, 1985, morning and afternoon water samples from drinking fountains in the Jacob K. Javits Federal Building (JFB) in New York City were collected because of the poor taste of the water. The U.S. Environmental Protection Agency (EPA) tested samples from five of the 41 floors of the 19-year-old JFB for the presence of heavy metals. Elevated levels of lead were reported for the afternoon samples from fountains at the north end of the building; concentrations ranged from $100 \ \mu g/I$ to $210 \ \mu g/I$; the EPA standard maximum contaminant level for lead in drinking water is $50 \ \mu g/I$. Levels of copper were also elevated (up to $5,900 \ \mu g/I$).

Repeated testing for lead content of the water from the intake pipes into the building, from the JFB storage tanks, and/or from the drinking fountains and bathroom sinks on the floors of the JFB was undertaken by the EPA on April 18, by a private engineering firm on April 29 and June 10, by the New York City Department of Environmental Protection on May 13, and by the New York City Department of Health (NYCDH) on May 15 and May 17. The highest concentrations of lead were found in water from the north intake pipe sampled through a freshly lead-soldered spigot and were 14,400 μ g/l on April 29 and 1,070 μ g/l on May 15. Of 68 water samples taken from drinking fountains and sinks on 12 floors of the JFB (including the originally tested five floors) and tested by either the NYCDH in May or the private engineering firm in June, 67 samples had acceptable levels of lead; one sample, from an unused fountain, had an elevated lead level of 151 μ g/l.

On May 20, the use of drinking water from the entire JFB was temporarily discontinued in favor of bottled water. The intake pipes, which contained lead solder and had sampling taps with lead solder joints, were subsequently replaced with stainless steel pipes; the mechanical

298

Blood Lead Levels – Continued

water chillers, which had copper tubing, were repaired; and the corrosiveness (acidity) of the water was decreased.

Because of the uncertainty of employee exposure to lead and the duration of any exposure, a voluntary screening program for blood lead was offered July 9 and July 10 to all of the approximately 10,000 federal employees who worked in the JFB to determine the extent of lead absorption (Table 2). Three hundred sixty-nine (4%) of the employees were tested for blood lead levels. Each employee provided demographic information and exposure-related data concerning the average daily amount of water consumed in the JFB. Blood lead determinations were made at the NYCDH Toxicology Laboratory by atomic absorption spectrophotometry (extraction method) with a lower limit of detection of 10 μ g/dl.

Of the 369 employees, 188 (51%) were women. The women ranged in age from 16 years to 74 years (median 37 years); the men ranged in age from 23 years to 69 years (median 42 years). Six women reported they were pregnant, and one woman reported she was possibly pregnant. Two hundred thirty-eight (64%) of the employees resided in New York City; the others lived in New York City suburbs.

Of the employees tested, 85% had blood lead levels of 10 μ g/dl or lower. The highest detected blood lead level, found in one employee, was 27 μ g/dl. The percentage of employees with blood lead levels greater than 10 μ g/dl increased significantly with increasing age, with a drop-off among persons aged at least 60 years (p < 0.05) (Table 1). Blood lead levels did not differ significantly among persons when categorized by sex, agency of employment, floor of employment, self-reported average daily consumption of water while at work, or place of residence. Of the seven pregnant or possibly pregnant women, six had blood lead levels of 10 μ g/dl or less, and one had a level of 13 μ g/dl.

Reported by L Budnick, MD, H Young, MD, Div of Federal Employee Occupational Health, V Chang, MD, US Public Health Service, Region II, B Kaul, PhD, B Davidow, PhD, New York City Dept of Health Laboratories; National Institute for Occupational Safety and Health, CDC.

Editorial Note: The water in the JFB intake pipe was apparently contaminated with lead from solder in the pipes and from the lead-soldered sampling tap. If the drinking water on all floors was contaminated with excess lead, either the level was insufficiently elevated, the duration of exposure was too short, or the amount of consumption was too small to result in any evident increase in absorption and blood lead levels among the employees. Nevertheless, the water distribution and chilling systems have been repaired, and the water in the JFB is now being filtered and chilled to decrease the concentration of heavy metals. The water is being monitored quarterly to ensure good drinking water quality; the initial tests revealed that all water samples had lead levels within standard limits.

None of the 369 adults tested had abnormal absorption of lead from the environment, as evidenced by the blood lead levels. The majority of office workers tested had blood lead levels of 10 μ g/dl or less. A national survey of adults revealed a mean blood lead level of 9.2 μ g/dl in 1980, a 37% decline over 4 years (1). Overall, for the 4 years 1977-1980, the national survey revealed age-group-specific mean levels for adults of between 13.1 μ g/dl and 15.3 μ g/dl,

TABLE 2. Jacob K. Javits	Federal Building	employee blood	lead levels,	by age – New
York City, July 9-10, 1985				-

Blood lead	Age (years)									
level (µg/dl)	< 30	30-39	40-49	50-59	≥ 60	Unknown	Total			
≤ 10	43	116	70	44	34	5	312			
11-19	0	16	10	18	5	1	50			
20-27	0	0	4	3	Ō	0	7			
Total	43	132	84	65	39	6	369			

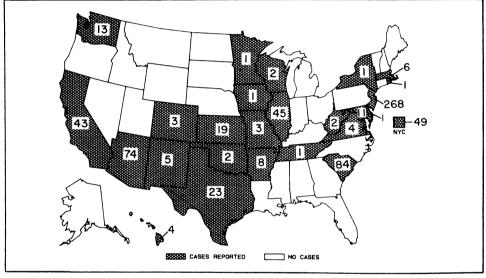
Blood Lead Levels - Continued

with the peak among persons aged 45-54 years (2). The results of the New York City survey paraller the national survey. In addition, nationally, blood lead levels were higher among urban residents (2).

References

- 1. Annest JL, Pirkle JL, Makuc D, Neese JW, Bayse DD, Kovar MG. Chronological trend in blood lead levels between 1976 and 1980. N Engl J Med 1983;308:1373-7.
- Mahaffey KR, Annest JL, Roberts J, Murphy RS. National estimates of blood lead levels: United States, 1976-1980: association with selected demographic and socioeconomic factors. N Engl J Med 1982;307:573-9.

FIGURE I. Reported measles cases — United States, weeks 14-17, 1986



\$U.S. Government Printing Office: 1986-746-149/21054 Region IV

DEPARTMENT OF HEALTH & HUMAN SERVICES Public Health Service Centers for Disease Control Atlanta GA 30333

Official Business Penalty for Private Use \$300



Postage and Fees Paid U.S. Dept. of H.H.S. HHS 396



х