CENTERS FOR DISEASE CONTROL



MORBIDITY AND MORTALITY WEEKLY REPORT

Epidemiologic Notes and Reports

November 21, 1980 / Vol. 29 / No. 46

- Epidemiologic Notes and Reports 553 Contaminated Povidone-Iodine Solution – Northeastern United States Current Trends 555 Fertility Among Hispanics, Anglos, and Blacks – Texas 562 Urban Rat Control – United States.
 - 62 Urban Rat Control United States, April-June 1980

Contaminated Povidone-Iodine Solution – Northeastern United States

During September and October 1980, 7 hospitals in the northeastern United States notified the Centers for Disease Control (CDC) of clusters of blood cultures positive for *Pseudomonas cepacia*. Intensive investigations in 2 hospitals, 1 in New York and 1 in Boston, have revealed the cases to be pseudobacteremias caused by a contaminated iodophor preparation, Pharmadine.^{*} The Food and Drug Administration (FDA) investigated the plant manufacturing this product, and the manufacturer, Sherwood Pharmaceutical Company, has voluntarily recalled the lots implicated in the investigations described below.

Investigation in a New York City hospital

In the period June 30-October 4, 17 blood cultures from 14 patients in a New York City hospital were reported positive for *Pseudomonas cepacia*. Clinical evaluation of the Patients was not consistent with septicemia, although 4 patients with positive cultures were treated for presumed infection. Epidemiologic investigation by hospital personnel, the New York City Department of Health, and CDC showed that most of the cases occurred in September and early October and that all the positive cultures had come from patients on 2 of the hospital's 11 floors. Since blood cultures obtained from patients on other floors of the hospital were negative and all cultures were processed in the same manner in the laboratory, the investigation focused on the techniques and products used to obtain blood cultures.

A questionnaire survey conducted at this hospital implicated povidone-iodine as the likely source of contamination. Significant differences were found between the practices of house officers who had drawn blood specimens subsequently found to be positive for *P. cepacia* and of those who had obtained specimens determined to be negative. These differences involved the methods by which povidone-iodine solution was used for skin antisepsis before obtaining the cultures and for disinfection of the tops of blood-culture bottles before inoculating the blood specimens. House officers associated with positive cultures more frequently left the povidone-iodine solution on the skin during venipuncture and wiped the tops of the blood-culture bottles with the povidone-iodine solution; those who obtained specimens reported as negative for *P. cepacia* more frequently removed the solution with a sterile gauze pad or with an alcohol swab or did not attempt to disinfect the tops of the bottles. By October 29, CDC had informed the collaborating hospitals in New York and Boston that Pharmadine had been epidemiologically implicated.

^{*}Use of trade names is for identification only and does not constitute endorsement by the Public Health Service, U.S. Department of Health and Human Services.

Povidone-lodine Solution - Continued

The only povidone-iodine products used in the New York City hospital were a 10% solution and a surgical scrub, both with the Pharmadine trade name. On October 27, an attempt was made in the laboratory to simulate the house officers' techniques for blood drawing and culturing, using the solution to disinfect the skin and the tops of the blood-culture bottles; these indirect cultures of povidone-iodine were negative for *P. cepacia*. Millipore filtrates of the solution plated on sheep blood and MacConkey agars and direct inoculation of the solution into brain-heart-infusion broth (BHI) also yielded negative cultures. From October 17 to November 7, pint bottles of the solution were obtained from the hospital and sent to CDC for culture; cultures using direct inoculation of Pharmadine into BHI were reported as positive for *P. cepacia* on November 10 from both in-use and previously unopened bottles obtained throughout this 3-week period. On November 18, cultures of Pharmadine swabsticks obtained from a second New York hospital with *P. cepacia* pseudobacteremias also yielded growth of *P. cepacia*.

Investigation in a Boston hospital

In the period August 28-November 5, 16 patients in a Boston hospital had blood cultures positive for P. cepacia. This organism had not been isolated from blood cultures at this hospital during the preceding 2 years. Investigation by hospital personnel showed that the patients with positive blood cultures did not share similar hospital locations or subspecialty services. The cultures had been obtained by different personnel using a standard blood-culture technique that included preparation of the venipuncture site and the tops of the blood-culture bottles with povidone-iodine solution. All patients had elevated temperatures, and most had elevated leukocyte counts. Investigative measures included a search for a common source of the organism. Numerous cultures at the hospital of needles, syringes, various intravenous devices, intravenous solutions, blood-culture tubes, and multidose vials of heparin, xylocaine, and bacteriostatic saline were negative for P. cepacia. Povidone-iodine solution was cultured on blood agar plates and in blood broth in August but yielded no growth. Since the Pharmadine solution at this hospital was dispensed in the pharmacy from gallon containers into reusable glass bottles, cultures of the tap water, sink drains, distilled water, and the bottles were obtained; none was positive for P. cepacia. Since P. cepacia had been isolated using blood-culture bottles from 3 different manufacturers, neither the media nor the bottle tops seemed a likely source of contamination.

On October 31, blood cultures from 3 more patients at this hospital were positive for *P. cepacia*, and all 3 patient profiles strongly suggested pseudobacteremia. Subsequently, in-use bottles of Pharmadine were obtained from the floors where these patients were hospitalized. Laboratory simulation of the blood-culture technique in which this povidone-iodine was used to disinfect the tops of the blood-culture bottles resulted in isolation of *P. cepacia* on November 5; a variety of control cultures were all negative. Later cultures obtained by the same simulation technique using previously unopened bottles of Pharmadine also were positive for the same organism.

Reported by S Lewin, MD, P Nicholas, MD, R Soldiviero, RN, R Holtzman, MD, A Florman, MD, H Freilich, MD, New York City; D Craven, MD, B Moody, RN, M Connolly, K Stottmeier, PhD, W McCabe, MD, Boston City Hospital; N Miranda, MD, S Friedman, MD, City Epidemiologist, L Budnick, MD, S Shapiro, MD, L Lyon, MD, New York City Dept of Health; N Fiumara, MD, State Epidemiologist, Massachusetts State Dept of Public Health; Bacterial Diseases Div, Bur of Epi demiology, CDC.

Editorial Note: Pseudobacteremia has resulted from a variety of problems, ranging from contamination of quaternary ammonium compounds used for removing microbial agents

Povidone-lodine Solution - Continued

from skin surfaces (1) to errors in technique during collection or processing of the specimens (2,3). Intrinsic contamination of iodophor solutions with bacteria has not been previously reported. These products are highly bactericidal (4) and are widely recommended for use for skin antisepsis before blood cultures are obtained or intravenous devices are inserted. In addition, iodophor products are used for a variety of other pur-Poses, including cleansing of wounds and skin ulcers, treating vaginitis, and disinfecting skin before surgery. The iodophor preparation is generally not removed from the skin before invasive procedures but is left on to obtain a residual antimicrobial effect. Thus the potential exists for both pseudobacteremia and true clinical infection from an intrinsically contaminated iodophor product.

The FDA and CDC are investigating the source of this intrinsic contamination, its ^{extent} (in terms of products, lots, and distribution), and the factors permitting the survival of P. cepacia in these products. Pharmadine products are distributed primarily, though not exclusively, in the Northeast. To determine how widespread this problem is, hospitals that are obtaining unusual numbers of P. cepacia isolates are encouraged to ^{notify} their local or state health departments. Hospitals may also wish to remove from use existing supplies of povidone-iodine products manufactured by Sherwood Pharmaceutical Company. Povidone-iodine solutions manufactured by the company after November 15, ¹⁹⁸⁰, with lot numbers with the prefix Y80305 or higher, have been subjected to revised manufacturing practices. These include millipore filtration of water supplies, using 0.22 micron filters. The company also has indicated that it will routinely culture all newly manufactured lots until the revised process has been proven to be effective, and that it will not release for distribution any lots failing sterility tests.

References

- 1. Kaslow RA, Mackel DC, Mallison GF. Nosocomial pseudobacteremia: positive blood cultures due to contaminated benzalkonium antiseptic. JAMA 1976;236:2407-9.
- 2. Hoffman PC, Arnow PM, Goldmann DA, Parrott PL, Stamm WE, McGowan JE, Jr. False positive blood cultures. JAMA 1976;236:2073-5.
- 3. Weinstein RA, Stamm WE. Pseudoepidemics in hospitals. Lancet 1977; 2:862-4.
- 4. Prince HN, Nonemaker WS, Norgard RC, Prince DL. Drug resistance studies with topical antiseptics. J Pharm Sci 1978;67:1629-31.

Current Trends

Fertility Among Hispanics, Anglos, and Blacks – Texas

In vital statistics reports, birth information for Hispanics is included in the category of "white," thus obscuring the fertility patterns of this ethnic group. In Texas, this is Particularly important because 29% of all births to Texas residents occur among Hispanic women. Recently, CDC, in collaboration with the Texas Department of Health, studied the childbearing patterns of Texas residents, considering Hispanics* as a separate group (1). Included in this study was a comparison of the fertility rates from 1950 through 1977 for each of 3 racial/ethnic groups in Texas-Hispanics, Anglos,* and blacks. Out-ofwedlock fertility rates and the percent distribution of births by birth order were also determined for each racial/ethnic group.

In this study, an Hispanic was defined as a person who is white with a Spanish surname; an Anglo was defined as a white person without a Spanish surname.

Fertility - Continued

Hispanic women in Texas had a higher overall fertility rate than both Anglo and black women in Texas from 1950 through 1977 (Figure 1). In general, from 1960 through 1977 the fertility difference between the 3 groups was constant. Except for a slight rise in 1970-1971, the fertility rates for each of the 3 groups has declined since 1960. In 1977, the Hispanic fertility rate was 135.5 per 1,000 women aged 15 to 44 compared to 62.8 for Anglos and 91.9 for blacks. This compares to a total U.S. fertility rate of 67.8 per 1,000 women aged 15-44 in 1977.

MMWR

Hispanics had an out-of-wedlock fertility rate intermediate between blacks and Anglos. In 1977, the Hispanics' rate of births per 1,000 unmarried women aged 15 to 44 was 31.6 or 60% less than the rate among blacks (79.0) and 280% higher than the rate among Anglos (11.1). In 1977, Hispanic women had the highest proportion of births that were of birth order 4 or greater (21% of Hispanic births). However, this proportion declined among all 3 racial/ethnic groups from 1970 to 1977.

Reported by WP Peter, MD, PC Price, MD, Bur of Health Maintenance, Bur of Vital Statistics, Texas State Dept of Health; Program Evaluation Br, Statistical Services Br, Family Planning Evaluation Div, Bur of Epidemiology, CDC.

Editorial Note: The patterns described here indicate higher fertility among Hispanics as compared to Anglos and blacks. This study is consistent with the findings of a household survey of 2,135 women of childbearing age, conducted by CDC in cooperation with state and local health departments in 1979 along the U.S. side of the U.S.-Mexico border (2). The mean number of children ever born to married survey respondents was sig-(Continued on page 561)

	46th WE	EK ENDING		CUMUL	ATIVE, FIRST 46	WEEKS
DISEASE	November 15, 1980	November 17, 1979	MEDIAN 1975-1979	November 15, 1980	November 17, 1979	MEDIAN 1975-1979
Aseptic meningitis	160	222	122	6,567	7,525	4,22
Brucellosis	3	3	2	160	154	19
Chickenpox	1,919	1,453	1,976	164,196	178.874	160,97
Diphtheria	-		1	4	59	7
Encephalitis: Primary (arthropod-borne & unspec.)	14	25	25	1.004	977	1.07
Post-infectious	4	3	5	192	214	21
Hepatitis, Viral: Type B	394	347	305	15,913	12.987	13,19
Type A	575	516	538	24.934	26,296	27,02
Type unspecified	249	189	1 82	10,490	9,173	7.44
Malaria	34	20	12	1,707	685	48
Measles (rubeola)	31	92	292	13,153	12.768	25,39
Meningococcal infections: Total	43	48	48	2.327	2,295	1,54
Civilian	42	48	48	2.315	2.275	1,53
Military	1	-	-	12	20	2
Mumps	75	263	429	7.828	12.424	18,73
Pertussis	28	23	26	1.482	1.212	1,43
Rubella (German measles)	29	52	103	3.511	11,165	15,58
etanus	-	ī	1	65	63	6
Tuberculosis	468	541	541	24.284	24,318	26,63
l'ularemia	3	2	i	193	175	12
Typhoid fever	6	1.8	· 7	455	467	377
Typhus fever, tick-borne (Rky. Mt. spotted)	4	5	° s	1,113	1.005	1.00
Venereal diseases:						
Gonorrhea: Civilian	17.111	19.762	19,762	890.749	888.110	888,110
Military	179	388	549	23,949	24+420	24,42
Syphilis, primary & secondary: Civilian	576	492	465	24,116	22.090	21,34
Military	1	8	, i	270	280	260
Rabies in animals	75	66	52	5.657	4,524	2,76

TABLE I. Summary – cases of specified notifiable diseases, United States

TABLE II. Notifiable diseases of low from	requency, United States
-------------------------------------------	-------------------------

	CUM. 1980		CUM. 1980
Anthrax Botulism Ky. 1 Cholera Congenital rubella syndrome Leptosy: III. 1, Tex. 1 Leptospirosis Kans. 1, Fla. 1 Plague	1 57 8 46 195 68 18	Poliomyelitis: Total Paralytic Rabies in man Trichinosis Mass. 1, W. Va. 1 Typhus fever, flea-borne (endemic, murine) Tex. 3	8 6 95 104 69

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

Dra	ASEPTIC MENIN-	BRU-	CHICKEN			E	NCEPHALI		HEPATI	TIS (VIRAL	.), BY TYPE		
REPORTING AREA	GITIS	CEL. LOSIS	POX	DIPHT	HERIA	Pri	mary	Past-in- fectious	B	A	Unspecified	MA	ARIA
	1980	1980	1980	1980	CUM. 1980	1980	1979	1980	1980	1980	1980	1980	CUM. 1980
UNITED STATES	160	3	1,919	-	4	14	25	4	394	575	249	34	1.707
EW ENGLAND	6	-	259	-	-	-	-	-	8	8	10	7	106
LH.	-	-	86	-	-	-	-	2		2	-	2	16
/t_	-		13	-	-	-	-			2	-	-	1
Mass.	1	2	46 66	2	-	1	1	-	1 2	1	5	ī	1
1.1.	ี้เ	-	18	-	_	_	-	_	2	i	-	-	ŝ
Conn.	ī	-	30	-	-	-	-	-	3	Ž	5	4	18
ID. ATLANTIC	29	_	45	-	1	3	10	-	48	43	12	6	226
* T. City	12	-	22	-		2	3	-	11	12	6	2	39
V.J.	8 5	-	10 NN	Ξ	1	-	-	Ξ	10 27	10	6	2	63 56
b a.	4	-	13	-	- C -	1	7	- S	NA NA	21 NA	NA	2	50
N. CENTRAL							•					-	
~110	23	-	690	-	1	-	4	2	51	58	23	1	105
nd.	18		7	-	-	-	3	=	12		8	-	18
II.		-	143	-	- 12 -	-	-	<u> </u>	22	16 17	7 4	1	12
Mich. Nis.	ī	-	259	-	ĩ	=	-	-	9	11	3	-	23
	-	-	184	-	-	-	-	2	3	7	ĩ	-	11
M.N. CENTRAL	8	-	256	-	1	-	-	2	11	37	9	-	69
owa	-	-		-	-	-	-	1	5	5	1	-	25
Mo	1	-	114	-	-	-	2	-	1	16	4	-	1
N. Dak,	2	-	12	-	1	-		2	2	8	2	2	13
) Dat		-	39	-	-	-			1		-		4
Vebr. Kans,	-	-	i	-	-	-	_	-	i	2	1	-	7
	5	-	82	-	-	-	-	L	ī	6	i	-	13
ATLANTIC	17		127	_	-	_	_		97	84	33	6	180
Vid,			2	-	-	-		-	17	_	1	-	100
30	-	-	-	-	-	-	-	-	15	14	11	3	32
Va	1	-	-	-	-	-	-	-	1	Z	-	1	4
N. V.	-	1	38	Ξ	1	-	-	-	7	2	1	2	61
N.C.	8	-	NN	-		-	-	-	7	2	4		17
Go	-	-	2	_	-	-	-	-	5	4	i	-	10
Fla.	-	-	-	-	-	-	-	-	17	12	-	-	17
	8	-	85	-	-	-	-	-	27	46	15	-	35
E.S. CENTRAL	25	_	65	_		2	4	—	12	25	8	_	12
Tenn.	16	-	47	-	-		i	-	ĩ	- 4	ĩ	-	3
	8	-	NN	-	-	L	-	-	4	11	ĩ	-	-
Miss,	1	-	9	-	-	1	L	-	3	2	-a	2	1
N.S. CENT	-		9	-	-	-	2	-	4	8	- e	-	2
N.S. CENTRAL	15	2	143	-	-	4		-	23	109	54	1	144
a	-	-	-	-	-	-	-	-	6	22	12	2	a
Okla. Tex,	2 1	- 1	NN	-	-	1		1	3 2	6 9	4	-	42
	12	1	143		Ξ	3			12	72	38	1	82
MOUNTAIN		•	113			-			••		50	•	
Mone	4	-	196	-	-	-	1	-	8	30	21	-	88
	-	-	87	-	2	2	1	-	-	3	-	-	1
Nyo. Colo.	ī		2	Ξ	-	-	-	-	1	3	-	Ξ	1
V. Mex.	i	_	23	-	-	-	-		3	10	5	_	35
	-	-	-	-	-	_	_	Ξ	_	ĩ	-	-	6
Jtab	-	-	NN	-	-	-	-		2	6	8	-	18
Vev.	2	-	86	-	-	-	-	- An	1	4 2	4	-	15
ACIFIC	_	-	-	-	-	-	-	-	1	2	•	-	10
	33	1	138	-	1	5	6	-	136	181	79	13	777
Jren	-	-	123	-	1	-	-	-	3	12	5	-	49
-alif. Naska		-	1	-	-	1 2	1	- 2	112	11 156	72	13	45
Vaska ^H awaii	29	1	-	-	-	2	5	1.1	-	1.20	12	- 13	660
2011	4		ĩ		-	ĩ	27	-	9	2	L	-	17
Guam													
	NA	NA	NA	NA	-	NA	-	-	NA	NA	NA	NA	3
V.1	4	-	36	-	-	-	-	-	3	6	11	-	3
ac T	NA	NA	NA	NA	_	NA	-	-	NA	NA	NA	NA	
IN: Not notifiable	NA	NA	NA vailable.	NA	-	NA	-		NA	NA	NA	NA	2

TABLE III. Cases of specified notifiable diseases, United States, weeks ending November 15, 1980, and November 17, 1979 (46th week)

Mit Not notifiable. NA: Not available. All delayed reports and corrections will be included in the following week's cumulative totals.

	N	IEASLES (RU	IBEOLA)	MENING	OCOCCAL IN TOTAL	FECTIONS		NUMPS	PERTUSSIS	RUB	ELLA	TETANUS
REPORTING AREA	1980	CUM. 1980	CUM. 1979	1980	CUM. 1980	CUM. 1979	1980	CUM. 1980	1980	1980	CUM. 1980	CUM. 1980
UNITED STATES	31	13, 153	12,768	43	2,327	2,295	75	7,828	28	29	3, 511	65
NEW ENGLAND	-	672	291	5	1 32	130	6	590	3	-	209	3
Maine	-	33	18	-	6	1	2	300	-	-	68	1
N.H.	-	328	33	-	.8	13	-	22 12	1	-	37	
Vt. Mass.	2	226 58	119	4	14	49	2	126	-		71	-
B.I.	-	2	102	ĩ	10	9	ĩ	31	i	-		1
Conn.	-	25	4	-	46	45	ì	99	-		21	1
MID. ATLANTIC Upstate N.Y.	5 2	3,812 704	1,558	5 1	405 122	363 124	11	879 142	3 2	1	563 216	8
N.Y. City	2	1,198	794	i	101	83	ĩ	94	ĩ	1	100	2
N.J.	ĩ	829	58	3	86	93	4	121	-	-	101	-
Pa.	-	1.081	47	-	96	63	2	522	-	-	146	3
E.N. CENTRAL Ohio	1.2	2,448	3,339	3 2	267 87	260 102	21 2	2,934 1,178	8 2	6	839 8	5
Ind.	-	93	224	-	41	45	2	137	ĩ	4	358	-
111.	-	347	1.461	1	55	22	4	387	5	2	167	1
Mich.	-	250	840	-	68	72	9	883	-	-	129	1 2
Wis.	-	1,378	520	-	16	19	5	349	-	-	177	
W.N. CENTRAL	-	1,321	1.802	3	103	73	1	302	L		200	4
Minn. Iowa	-	1,105	1,218	- 2	34 13	15	-	19 51	-	1.2	28	1
Mo.		65	16	<u> </u>	38	34	-	101	1		42	ī
N. Dak.	-	ĩ	21	-	2	ĩ	-	4	-	-	5	- 1
S. Dak.	-	-	2	-	6	4	-	4	-	-	2	-
Nebr.	-	83	54	-		-	ī	9	-	2	1	ī
Kans.		67	74		10	6		114			113	
S. ATLANTIC Del.	-	1,965	2.040 1	8	546 2	561 5	14	1,064 40	2	3	348	11
Md.	-	83	16	2	51	57	-	340	_	_		1
D.C.	-	5		-	2	-	~	4	-	-	ī	
Va.	-	339	275	1	56	79	3	74	-	-	56	3
W. Va. N.C.		16 130	61 114	1	20 95	9 86	3	122	1	1	27	1
S.C.	- 2 -	150	177	2	62	62	3	210	-	Ξ	40 54	3
Ga.	-	826	533	2	103	82	ĩ	- 11	2	-	-	-
Fia.	-	404	863	-	155	181	4	169	-	2	92	2
E.S. CENTRAL	-	334	219	3	197	163	2	879	-	1	87	6
Ky.	-	56	39	2	61	34	1	756	-	1	43	2
Tenn. Ala	-	172	71	-	54	46 38	1	31 29	-	1	39 3	ź
Miss.	-	22 84	85 24	ī	52 30	45	-	63	-		2	-
W.S. CENTRAL	4	978	930	7	252	332	6	288	4	6	144	18
Ark.	- 2	16	7	-	19	25	-	22	-	-	4	2
La.	-	12	256	1	91	118	-	68	-	1	13	5
Okla. Tex.	4	776	22 645	1 5	22 120	37	6	198	4	5	121	10
MOUNTAIN	4	498	324	4	99	92	4	216	-		158	-
Mont.	1	2	56	-	3	11	2	60	-	-	45	-
Idaho	-	-	18	-	6	10	-	16	-	-	22	-
Wyo.	-		36	-	4	Ļ	-		-	2	1	1
Colo. N. Mex.	- <u>C</u> -	24 14	68 38	1	24 10	7	2 _	61	-	-	12	-
Ariz.	4	401	77	3	18	36	_	43		-	39	-
Utah	-	47	19	-	5	9	-	27		-	28	1
Nev.	-	10	12	-	29	13	-	9	-	-	6	
PACIFIC	18	1,125	2,265	5	326	321	10	676	7	12	963	10
Wash.	1.2	177	1,139	-	59	56	2	142	3	2	86	-
Oreg. Calif.	18	936	66 975	2 3	53 205	26 223	25	88 413	4	7	65 793	10
Alaska	10	6	17		205	6	í	13	2	-	12	-
Hawaii	-	6	68	-	-	10	-	20	-	- C	5	-
-												
Guam P.R.	NA 2	6 159	12 372	2	11	L 6	NA 5	10 149	NA 1	NA 1	2 24	12
V.I.	NĂ	6	5	-	ĩ	3	NÁ	2	NÂ	NĂ	-	-
Pac. Trust Terr.	NA	10	9		-	ī	NA	21	NA	NA	1	-

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending November 15, 1980, and November 17, 1979 (46th week)

NA: Not available.

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

	THE	EACULOSIS	TULA		PHOID		S FEVER		VENER	AL DISEASES (Civilian)			RABIES (in
REPORTING AREA	108	EHCULUSIS	REMIA		EVER		-borne) MSF)		GONORRHEA		SY	'PHILIS (Pri	& Sec.)	Animals
_	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	468	24,284	193	6	455	4	1,113	17,111	890,749	888,110	576	24,116	22,090	5,65
NEW ENGLAND	9	673	6	1	12	_	14	609	22,633	21,779	12	466	431	5
Maine N.H.	Э	49	-	-	1	-	-	48	1,300	1,530	-	6	10	24
Vt	-	15	-	Ξ		- 2	-	8	785	810	-	5	16	1
Mass.	5	24 373	4	-	7		7	6 247	497 9,525	56L 8,632	7	279	2 246	14
R.I. Conn.	-	64	i	-	i	-	2	26	1,445	1,769	ź	31	18	1
	1	148	1	1	3	-	5	274	9,08L	8,477	3	139	139	9
MID. ATLANTIC	71	3,902	3	1	84	-	48	2,268	100,260	97,080	83	3,296	3, 332	69
Upstate N.Y. N.Y. City	27	756	1	-	14	-	14	345	18,070	16,976	_	283	244	37
N.J.	14	1,400 854	1	1	38 19	-	3 19	1,300 164	40,037 17,927	38,150 17,038	59 8	2,135	2,264	13
Pa.	24	892	1	-	13	_	12	459	24,226	24,916	16	484	386	19
EN. CENTRAL														
	46 18	3,464 637	1	1	48 13		30	2,679	137,739	139.061 38,351	92 8	2,474	2,783	854 53
Ind. III,	5	382	-	-		-	2	447	14.623	11,614	5	175	188	69
Mich.	20	1,199	-		18	-	6	707	43,358	44,042	75	1,518	1,562	466
Wis.	NA 3	1,031 215	1	ī	11	-	3	563 287	31,303	32,434	2	358	401 73	251
WN CENT	-		-	-	-	_								
W.N. CENTRAL Minn.	35	891	29	1	28	-	54	855	42,941	43,867	2	319		1,835
lowa	24	183 80	1	-	3 2	-	3	156 110	7,007	7,227 5,220		105	77 29	207
Mo. N. Dak,	ŝ	408	24	1	19	-	34	304	19,133	18,876	2	151	128	351
S. Dak.	1	46	-	-	1	-	-	19	595	777	-	4	2	213
Nebr.	-	42 37	1	-	1	-	25	17 59	1,225	1,446	-	5	27	413
Kans.	4	95	2	1.	i	-	10	190	7,153	7,213	-	21	37	144
S ATLANTIC						-								
U BI,	102	5,339 67	10		43	2	695 2	4,534 66	223.939 3,168	214,413 3,506	112	5,788	5,215	459
Md. D.C.	15	654	2	-	3	ī	74	435	23,766	26,438	- 4	398	330	32
Va.	10	335	-	-	4	-	-	362	15,401	14,217	11	432	400	
W. Va.	12	568 193	-	-	8 4		95 5	482 94	20,604	20,414 2,908	10	523	420 48	26
N.C. S.C.	20	957	3	-	5	-	314	979	34,090	31,149	4	428	395	20
Ga.	9	457	-	-	3	1	141	356	20,928	20,154	10	339	269	60
Fla,	12	722 1,386	5	Ξ	15	-	57	989	43,718 59,176	40,284	34 39	1,646	1,452	230
ES CENTRAL														
	45 12	2,237	10	-	12	-	113	1,400 229	72,573 10,581	75,751 10,153	34	1.984	1.465 144	318
Tenn.	13	725	7	-	i	-	61	742	26,409	27,457	19	839	606	134
Ala. Miss.	20	592	i	-	3	-	17	240	21,475	22,258	3	436	266	51
	-	415	2	-	5	-	16	189	14,108	15,883	12	591	449	-
W.S. CENTRAL	52	2,750	89	-	72	2	138	1.883	112,303	113,989	140	4,863	4,034	1,209
Ark.	-	294	57	-	8	-	35	168	9,053	8,903	-	195	140	167
Okla.	5	505	21	Ξ	2	2	72	295 230	20,177	20,395	.36	1,200	1,026	15
Tex.	38	303 1,648	11	-	56	-	28	1,190	71,858	73,434	99	3,370	2,788	879
MOUNTAIN														1.10
mont.	6	677	32	-	26 1	-	16	639 NA	34,057	35,632	8 NA	588	442	230
Idaho	-	30 25	1	-	1	-	1	12	1,073	1,767	-	26	25	2
Wya. Colo,	1	21	4	-	-	-	2	14	999	1,029	-	12	8	15
N. May	-	113	8	-	7	-	5	162	9,261	9,576	3	155	93	54
Ariz.	2	126 290	2 1	-	37	- 1	4	103	4,195 9,155	4,415 9,816	3	106	79	44 56
Utah Nev.	ĩ	44	5	-	i	-	1	34	1,720	1,820	-	15	- 4	3
		28	2	-	-	-	-	129	6,153	5,649	2	79	100	1
PACIFIC	102	4,351	13	2	130	_	5	2,244	144,304	146,538	93	4,338	4,106	548
Wash. Orec.	10	372		-	3	-	-	NA	11,968	12,960	NA	189	191	-
Calif	5	162	4	-		-	1	229	9,983	9,202	2	99 3,904	152 3,652	497
Alaska	87	3,675 53	8	2	116	-	4	1,888	115.9L0 3,575	117.082	90	3,904	3,652	497
Hawaii	-	89	-	-	2	-	-	49	2,868	2,797	1	138	86	
Gue														
Guam P.R.	NA	52	-	NA	1	NA	-	NA	97	106	NA	5	-	
V.I.	N A	209		NA	8	-	1	62 NA	2,432	1,943 142	11 NA	540 10	511	41
Pac. Trust Terr.		-	_	NA	-	NA	-	ne.	1 U d	142	IN A	10		

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending November 15, 1980, and November 17, 1979 (46th week)

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 November 15, 1980 (46th week)

		ALL CAUS	ES, BY AGE	(YEARS)					ALL CAUS	ES, BY AGE	(YEARS)		
REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P&I** Total	REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P& I** TOTAL
NEW ENGLAND	704	475	166	25	23	50	S. ATLANTIC	1,129	671	295	87	37	45
Boston, Mass.	186	118	43	10	8	17	Atlanta, Ga.	121	59	41	15	-	32
Bridgeport, Conn.	43	24	17	1	1	2	Baltimore, Md.	141	95	28	12	4	ź
Cambridge, Mass. Fall River, Mass.	20 27	15	5	1	ī	5	Charlotte, N.C. Jacksonville, Fla.	64 103	36 57	19 28	3	4	5
Hartford, Conn.	76	43	26	2	5	-	Miami, Fla.	81	30	32	10	ī	2
Lowell, Mass.	38	25	8	3	- 1	3	Norfolk, Va	50	26	18	3	2	3
Lynn, Mass.	29	24	4	-	-	-	Richmond, Va.	79	42	19	6	10	8
New Bedford, Mass.	24	21	3	-	-	-	Savannah, Ga.	27	17	- 4	3	-	3
New Haven, Conn.	51	32	14	2	3	4	St. Petersburg, Fla.	81	67	10	2	2	3
Providence, R.I. Somerville, Mass.	67	52	10	2	2	7	Tampa, Fla. Washington, D.C.	62 276	42	17	2	1 9	9
Springfield, Mass.	40	28	8	1	2	5	Wilmington, D.C.	44	26	64 15	21 2	3	i
Waterbury, Conn.	42	28	11	2	-	ŝ	Minington, Dai.			.,	-		
Worcester, Mass.	58	43	11	ī	1	3							
							E.S. CENTRAL	611	379	140	46	29	28
		1911 A.A.B.					Birmingham, Ala.	100	67	23	4	5	23
MID. ATLANTIC		1,695	613	164	70	87	Chattanooga, Tenn.	53	29	12	5	4	1
Albany, N.Y. Allentown, Pa	47	32 19	8	5	Ξ	2	Knoxville, Tenn.	47	36 61	25	2	2	7
Buffalo, N.Y.	89	55	22	8	ī	2	Louisville, Ky. Memphis, Tenn.	118	61	31	- 11	1	4
Camden, N.J.	33	26	4	1	2	2	Mobile, Ala.	71	37	14	18	10	4
Elizabeth, N.J.	27	1.8	7	ī	ī	1	Montgomery, Ala.	33	20	9		-	-
Erie, Pa.†	52	33	16	1	-	2	Nashville, Tenn.	95	61	19	8	6	7
Jersey City, N.J.	65	43	7	10	1	2							
Newark, N.J. N.Y. City, N.Y.	63	27 900	15	14	5	3							42
Paterson, N.J.	1,390	900	320	89 3	39	41 2	W.S. CENTRAL	1.085	627 20	259 7	90	38	-
Philadelphia, Pa.†	305	178	88	17	12	7	Austin, Tex.	19	12	5	1	ī	1
Pittsburgh, Pa. 1	57	35	19	ż	-	i	Baton Rouge, La. Corpus Christi, Tex,	40	23	á	2	ŝ	-
Reading, Pa.	36	26	8	-	-	ż	Dallas, Tex.	196	111	48	19	6	4
Rochester, N.Y.	128	88	27	6	2	9	El Paso, Tex.	59	36	11	3	6	1
Schenectady, N.Y.	32	23	6	1	1	-	Fort Worth, Tex.	85	58	13	9	1	6
Scranton, Pa.†	34	28	4	1	-	2	Houston, Tex.	225	110	65	20	7	1 4
Syracuse, N.Y. Tranton, N.J.	146	87 29	43 8	5	6	6 1	Little Rock, Ark.	49	34 75	11 29	2	5	-
Utica, N.Y.	17	15	ĩ			2	New Orleans, La. San Antonio, Tex.	142	76	36	18	4	5
Yonkers, N.Y.	20	17	i	-	1	-	Shreveport, La. Tulsa, Okla.	47	32 40	10	2	2	3 11
E.N. CENTRAL	2. 243	1,413	520	145	100	64							
Akron, Ohio	63	45	11	4	2		MOUNTAIN	556	358	109	47	15	21
Canton, Ohio	42	31	8	i	-	1	Albuguergue, N. Mex.		33	11	4	2	-
Chicago, III.	526	301	136	41	24	6	Colo. Springs, Colo.	39	26	7	3	-	3
Cincinnati, Ohio	108	71	23	3	9	13	Denver, Colo.	123	84	29	5	1	1
Cleveland, Ohio	173	94	50	14	12	2	Las Vegas, Nev.	48	29	8	5	2	-
Columbus, Ohio	129	76 63	27	8	10	32	Ogden, Utah	20 94	13	3	2	1	1
Dayton, Ohio Detroit, Mich.	261	154	62	29	9	6	Phoenix, Ariz. Pueblo, Colo.	22	17	15	_	-	3
Evansville, Ind.	26	20	4	ĩ		-	Salt Lake City, Utah	56	31	ní	8	2	5
Fort Wayne, Ind.	36	26	7	1	2	3	Tucson, Ariz.	102	61	20	12	2	5
Gary, Ind.	21	16	4	1	-	1							
Grand Rapids, Mich.	64	49	11	1	2	1							59
Indianapolis, Ind.	179	34	39	13	10	3	PACIFIC	1,446	905 A	330	108	49	-
Madison, Wis. Milwaukee, Wis.	136	90	37	3	2	1	Berkeley, Calif.	74	49	15	1	2	3
Peoria, III.	53	32	16	2	3	4	Fresno, Calif. Glendale, Calif.	11	1	4	121	-	-
Rockford, III.	- 44	32	7		ī	6	Honolulu, Hawaii	54	32	ġ	7	1	3
South Bend, Ind.	61	47	8	3	2	2	Long Beach, Calif.	73	47	20	1	- 4	3
Toledo, Ohio	126	80	35	5	- 4	6	Los Angeles, Calif.	308	187	68	32	7	10
Youngstown, Ohio	59	45	11	1	1	ı	Oakland, Calif. Pasadena, Calif.	53 20	32 17	14	1	3	-
							Portland, Oreg.	117	86	22	3	5	7 2
W.N. CENTRAL	725	484	153	39	21	23	Sacramento, Calif.	72	40	16	8	5	1
Des Moines, Iowa Duluth, Minn.	52 21	35	13	4	2	3	San Diego, Calif.	139	80	37	12	2	i
Kansas City, Kans.	31	16	3	2	2	1	Sen Francisco, Calif. San Jose, Calif.	139	78 81	38 36	11	6	14
Kansas City, Mo.	130	86	29	5	2	6	San Jose, Calif. Seattle, Wash.	116	76	23	19	6	2
Lincoln, Nebr.	24	16	4	3	-	3	Spokane, Wash.	71	51	15	2	3	6
Minneapolis, Minn.	104	80	8	6	7	ĩ	Tacoma, Wash.	47	34	ió	ž	ĩ	5
Omaha, Nebr.	87	58	19	3	1	2					_	-	
St. Louis, Mo.	177	114	42	11	6	-							419
St. Paul, Minn.	58	38	15	2	1	- 7	TOTAL	11,123	7.007	2,585	751	382	41.9
Wichita, Kans.	- 41	22	11	3	1								

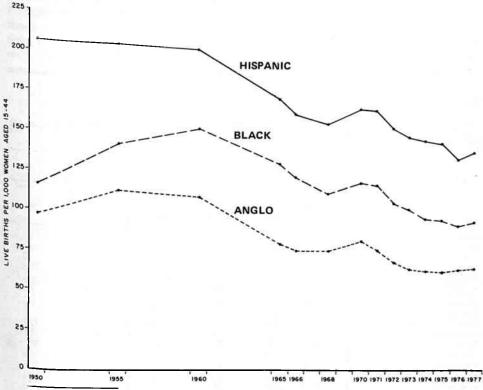
*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included. ***Pneumonia and influenza

+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.

Fertility - Continued

nificantly higher among Hispanicst than Anglost for each 5-year age group ages 20-44 (p <.001). Among respondents who had ever been pregnant, 11.0% of Anglos and 16.3% of Hispanics reported their last live birth as unwanted. Contraceptive use among married women was higher among Anglos than Hispanics (75.2% vs. 65.6%). Among married respondents not currently using contraception, a greater proportion of Hispanics than Anglos reported wanting to use contraception (44.1% vs. 34.6%).

FIGURE 1. General fertility rates,* by ethnic group, Texas, selected years from 1950 through 1977



*The number of live births per 1,000 women aged 15 to 44.

These 2 studies suggest that fertility is higher among Hispanics than Anglos, at least in Part because Hispanics have proportionately more unwanted births. The current level of contraceptive use and the interest in use expressed by Hispanic survey respondents suggest that, given continuing access to family planning services, the decline in fertility among Hispanics will continue.

References

1. CDC. Texas fertility: childbearing patterns and trends, 1950-1977. Issued July 1980.

2. MMWR 1980;29:181-3.

tin this survey, Hispanics and Anglos are those who defined themselves as belonging to these ethnic categories.

COPY of the report from which these data were derived (1) is available on request from CDC, Attention: Family Planning Division, Bureau of Epidemiology, Atlanta, Georgia 30333.

Urban Rat Control – United States, April-June 1980

During the third quarter of fiscal year 1980, urban rat control programs identified 2,365 environmentally improved blocks (EIBs) (Table 1). This is the largest number of EIBs reported in a single quarter since fiscal year 1977. So far this year EIBs have been designated in 43 program communities. As of June 30, there were 33,388 cumulative EIBs and 11,257 blocks in maintenance. Approximately 6.8 million people lived in areas that were improved and rat free as a result of local program efforts.

Urban rat control grant funds are directed to neighborhoods with severe rat infestations and environmental deficiencies. As these adverse conditions abate, federal support is reduced and local resources are developed to sustain accomplishments. Grant funds then are redirected to other areas. During the third quarter this process enabled programs in Jersey City, Washington, D.C., Miami, Chicago, and Omaha to incorporate 1,056 new subtarget-area blocks into their existing project areas. Also, Puerto Rico added Guayama (216 target-area blocks) as a new program community.

Reported by Environmental Health Services Div, Bur of State Services, CDC.

TABLE 1. Status of target-area blocks in Urban Rat Control Programs, third quarter fiscal year 1980 (April 1 - June 30)

		Tar	get-area block	S	Environmentally improved blocks*		
Program community	T	In	In mainten	ance phase	New this	Cumulative	
	Total	attack phase	<12 months	≥12 months	quarter	Cumulative	
REGION I	671	461	133	77	0	1,065	
Hartford	249	197	7	45	0	277	
Boston	422	264	126	32	0	0	
Previously funded programs							
REGION II	3.925	1,388	1,036	1,262	212	3,975	
Camden	254	133	65	56	0	97	
Jersey City	350	27	37	169	0	93	
Newark	220	66	141	13	0	0	
New York City	1,534	597	383	554	0	727	
Newburgh	5	5	0	0	20	81	
Rochester	232	64	73	95	0	340	
Yonkers	66	8	17	41	25	83	
Aguadilla, P.R.	140	75	44	21	0	125	
Arecibo, P.R.	136	32	52	52	24	179	
Guayama, P.R.	216	69	25	0	0	0	
Mayaguez, P.R.	199	139	39	21	13	193	
Ponce, P.R.	249	94	59	96	40	253	
San Juan, P.R.	324	79	101	144	90	231	
Previously funded programs						1,573	
REGION III	3,856	1,368	1,502	695	311	6,619	
"War on Rats," D.C.	984	489	183	133	104	1,072	
Baltimore	413	70	126	105	0	262	
Chester	120	37	35	48	Ő	55	
Harrisburg	367	45	185	137	Ō	0	
N.E. Pa. V.C. Assn.†	311	79	232	0	117	1,159	
Philadelphia	1,149	409	637	103	65	1,431	
Pittsburgh	333	149	48	136	ō	1,198	
Norfolk	147	68	46	33	25	1,303	
Portsmouth	32	22	10	0	Ō	61	
Previously funded programs							

Rat Control – Continued TABLE 1.–Continued

		Tar	get-area blocks	5		nmentally ed blocks*	
Program community	Total	In attack	In mainten	ance phase	New this	Cumulative	
	10141	phase	<12 months	≥12 months	quarter		
REGION IV	4,744	1,525	1,650	473	587	6,109	
Mobile	340	75	197	68	166	399	
Tuscaloosa	344	109	89	0	0	0	
Ft. Lauderdale	0	0	0	0	161	877	
Miami	1,167	532	234	60	59	873	
Pensacola	573	130	180	9	0	15	
Tampa	Ō	0	0	0	40	983	
Atlanta, Ga.‡	478	298	180	Ō	Ō	0	
DeKalb Co., Ga	740	183	392	165	Ō	Ō	
Lexington	317	30	133	0	Ō	0	
Louisville	360	128	133	99	161	572	
Memphis	425		112	72	0	392	
Previously funded programs						1,998	
	i						
REGION V	4,424	2,195	1,501	316	605	4,046	
Chicago	493	356	25	11	7	7	
Peoria	324	181	143	0	0	0	
Gary	381	205	32	144	0	0	
Indianapolis	156	2	154	0	153	261	
Benton Harbor	190	82	63	45	0	0	
Detroit	184	92	87	5	232	538	
Highland Park	220	128	86	6	0	0	
Saginaw	333	138	101	0	0	0	
Washtenaw CoYpsilanti	236	61	49	0	0	0	
Wayne Co - Ecorse	193	76	26	0	0	0	
Akron	249	62	187	0	52	494	
Barberton	92	7	85	0	27	85	
Cincinnati	91	28	. 37	26	14	114	
Cleveland	379	203	172	4	17	661	
Columbus	359	194	99	66	90	206	
oledo	189	95	85	9	13	149	
Youngstown	220	161	59	ō	Ō	0	
Wilwaukee	135	124	11	ŏ	ŏ	ŏ	
Previously funded programs						1,531	
REGION VI	1,832	620	593	513	262	6.082	
Little Rock	403	233	50	14	202	0,002	
Pine Bluff	318	157	68	93	ŏ	90	
New Orleans	463	122	185	156	45	2,862	
Houston	648	108	290	250	217	1,872	
Previously funded programs	048	108	290	200	217	1,0/2	

(Continued on page 564)

The Morbidity and Mortality Weekly Report, circulation 91,840, is published by the Centers 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: Centers for Disease Control, Attn: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

Send mailing list additions, deletions and address changes to: Centers for Disease Control, Attn: Distribution Services, GSO 1-SB-419, Atlanta, Georgia 30333. Or call 404-329-3219. When requesting changes be sure to give your former address, including zip code and mailing list code number, or and an old address label.

Rat Control – Continued

564

Drootom community		Tar	get-area block	s	Environmentally improved blocks*		
Program community	Total	ln attack phase	In mainten	ance phase	New this		
			<12 months	≥12 months	quarter	Cumulative	
REGION VII	1,281	292	538	451	262	3,331	
Kansas City, Kan.	173	0	119	54	115	1,068	
Kansas City, Mo.	128	17	60	51	49	643	
St. Louis	487	76	179	232	0	769	
Omaha	493	199	180	114	98	455	
Previously funded programs						396	
REGION IX	809	292	443	74	126	1,331	
Los Angeles	358	89	223	46	0	207	
Oakland	247	149	87	11	31	219	
San Bernardino	63	8	55	0	95	130	
San Francisco	141	46	78	17	0	293	
Previously funded programs							
REGION X Previously funded programs						830 830	
TOTAL	21,542	8,141	7,396	3,861	2,365	33,388	

*Contiguous blocks where maintenance has been achieved and sustained for a minimum of 12 months. These blocks are no longer part of the approved project target area.

Northeastern Pennsylvania Vector Control Association. Serves Lackawanna and Luzerne counties and the cities of Nanticoke, Wilkes-Barre, and Hazleton.

Target-area blocks are confined to public housing projects.

Clarification, Vol 29, No. 33

p393 In the first paragraph of the story "Occupational Mercury Poisoning – Nicaragua," the statement is made that Lake Managua is the source of the city of Managua's water supply. In fact, Lake Managua is separate from the city water supply, although it provides fish for consumption by the population of the city.

Erratum, Vol. 29, No. 42

p506 In the article "Psittacosis – California," the last line of the last paragraph before the credits states that veterinarians diagnosed psittacosis (unconfirmed) in approximately 50 other birds. Actually, the diagnosis was made in several other birds, not 50.

