

Texas Preventable Disease

NEWS



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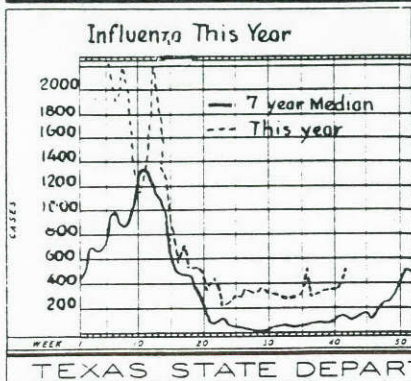
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Bureau of Disease Control and Epidemiology,
1100 West 49th Street, Austin, Texas 78756 (512-458-7455)

50 Years Ago...

Texas MORBIDITY *this WEEK*



week No. 42

INFLUENZA

During the first ten weeks of this year Influenza was epidemic. The weekly incidence exceeded the median by as much as thirty fold. By the twentieth week this year's data began to parallel the median curve but remained above it. The accompanying graph shows that the disease has been reported in sizable numbers throughout the summer. This probably portends another, and perhaps sharper, epidemic for this winter. Recent experimental work in Influenza has shown that at least three epidemiologically distinct viruses may cause the disease. All three may be present in a single epidemic even in an isolated institution. Our present knowledge is inadequate to permit any statement as to whether these various viruses have separate predilections for season, race, etc.

TEXAS STATE DEPARTMENT OF HEALTH WEEK ENDING October 18, 1941

ORAL TYPHOID VACCINE RECOMMENDATIONS

The FDA has licensed an oral, live-attenuated typhoid vaccine (Vivotif, manufactured from the Ty21a strain of Salmonella typhi) for use by adults and children ≥6 years of age. The efficacy of the new vaccine is comparable to that of the inactivated vaccine already in use.

The incidence of typhoid fever declined steadily in the United States from 1900 to 1960 and has since remained at a low level. From 1975 through 1984, the average number of cases reported annually was 464. During that period, >50% of cases occurred among patients ≥20 years of age; 62% of reported cases occurred among persons who had traveled to other countries, compared with 33% of reported cases from 1967 through 1976. From 1988 to 1989, 50 cases of typhoid fever were reported in Texas. More than half had histories of foreign travel, primarily to Central and South America and Asia.

VACCINE USAGE

Routine typhoid vaccination is no longer recommended in the United States. However, selective vaccination is indicated for the following groups:

- Travelers to areas that have a recognized risk of exposure to *S. typhi*. Risk is greatest for travelers to developing countries (especially Latin America, Asia, and Africa) who have prolonged exposure to potentially contaminated food and drink. Such travelers need to be cautioned that typhoid vaccination is not a substitute for careful selection of food and

drink, since typhoid vaccines are only 51%-94% effective, and the protection the vaccine offers can be overwhelmed by large inocula of *S. typhi*.

- Persons with intimate exposure to a documented typhoid fever carrier, such as occurs with continued household contact or in day-care centers.
- Workers in microbiology laboratories who frequently work with *S. typhi*.

Primary Vaccination

The following dosage of oral, live-attenuated Ty21a vaccine is recommended for adults and children ≥6 years of age:

- 1 enteric-coated capsule taken on alternate days to a total of 4 capsules. Each capsule should be taken with cool liquid no warmer than 37°C, approximately 1 hour before a meal. The capsules must be kept refrigerated, and all 4 doses must be taken to achieve maximum efficacy.

BOOSTER DOSES

The optimal booster schedule for persons who have received Ty21a vaccine has not yet been determined; however, the longest reported follow-up study of vaccine trial subjects showed continued efficacy five years after vaccination. The manufacturer of Ty21a recommends revaccination with the entire 4-dose series every 5 years.

This recommendation may change as more data become available on the duration of protection produced by the Ty21a vaccine.

PRECAUTIONS AND CONTRAINDICATIONS

During volunteer studies and field trials with oral live-attenuated Ty21a vaccine in enteric-coated tablets, side effects were rare and consisted of abdominal discomfort, nausea, vomiting, and rash or urticaria. In safety trials, monitored adverse reactions occurred with equal frequency among groups receiving vaccine and placebo.

This is in contrast to double-blind studies of heat and phenol inactivated typhoid vaccine in which 24%-29% and 35%-54% of recipients complained of fever and local pain, respectively.

Live-attenuated Ty21a should not be used among immunocompromised persons, including those known to be infected with the human immunodeficiency virus. Parenteral inactivated vaccine presents a theoretically safer alternative for this group. Ty21a vaccine is also contraindicated for persons with acute febrile or gastrointestinal illnesses and for those receiving sulfonamides and antibiotics. No experience has been reported with oral live-attenuated Ty21a vaccine among pregnant women.

PDN Editorial Note: The Ty21a vaccine is available from Berna Products, Inc., Coral Gables, Florida 33146, telephone 1-800-533-5899. Costs range from \$24.95 for one packet of four capsules to \$14.95/packet in quantities of ≥ 50 packets.



INFLUENZA A ISOLATED

The Influenza Research Center, Baylor College of Medicine, has cultured an influenza A virus from a 7-year-old girl seen by her doctor on October 1 for a "flu-like illness." The specimen, the first Texas isolate reported this season, has been forwarded to CDC for further characterization. No community indicators of influenza activity are reported from Houston at this time.

Although this first Texas isolate is an influenza A virus, researchers anticipate that influenza B will predominate this year.



Vaccine-Preventable Disease Update

Provisional Data
 Weeks 39-42

CONFIRMED AND SUSPECTED MEASLES*

County	Latest Rash Onset	YTD Cases	Affected Population
Hill	10/01/90	15	All age groups
Kaufman	09/24/90	33	All age groups
Lubbock	10/03/90	2	School-age
Texas	YTD	4,951	

* Cumulative year-to-date data for counties with current outbreaks

PERTUSSIS

No pertussis cases reported for this period.

...
RUBELLA

County	Latest Onset	# Cases	Affected Population
Nolan	09/25/90	1	Pre-school

MONTHLY SUMMARY OF REPORTABLE DISEASES IN TEXAS

(Counties listed below reflect only those with populations of 190,000 or more, based on 1989 population estimates.)

Cumulative through: SEPTEMBER 1990

County	Amebiasis	Candylo- bacteri- osis	Chickenpox	Enceph- litis	H. influenzae infections	Hepatitis A	Hepatitis B	Hepatitis NA-NB	Influenza	Measles	Meningo- coccal infections	Aseptic Meningitis	Mumps	Pertussis	Rubella	Salmonella	Shigella
BEXAR	1	60	602	0	21	130	115	2	856	15	0	45	0	1	8	95	356
BRAZORIA	0	4	21	0	0	7	5	0	3595	0	3	1	2	0	0	6	21
CAMERON	28	3	333	0	15	31	4	0	1353	57	1	0	9	0	2	19	41
COLLIN	0	3	587	0	7	15	11	2	6438	59	1	7	5	1	2	9	0
DALLAS	13	95	86	6	50	249	176	2	107	1765	12	149	22	7	3	138	110
DENTON	1	3	178	0	9	6	9	0	156	155	2	6	2	0	0	14	6
EL PASO	1	10	1497	0	7	126	93	1	41	283	0	7	17	0	3	49	50
FORT BEND	1	9	120	0	4	9	6	0	40	8	0	0	0	0	0	22	45
GALVESTON	1	7	465	0	9	42	33	1	179	0	2	8	5	1	0	10	22
HARRIS	3	37	5959	9	37	126	88	1	161978	111	9	79	37	0	2	148	181
HIDALGO	4	8	156	0	5	9	2	0	49	62	0	1	1	0	1	22	46
JEFFERSON	0	14	982	0	13	5	33	1	3771	17	0	12	7	0	0	21	8
LUBBOCK	2	20	501	1	34	18	26	0	2027	5	3	7	9	1	1	32	258
MCCLENNAN	0	2	276	0	3	21	5	2	5665	21	0	1	3	1	0	19	10
MONTGOMERY	0	1	5	1	3	5	3	1	0	1	1	0	4	1	0	11	3
MUCCES	0	6	586	0	4	35	33	3	3252	6	0	3	3	0	2	32	70
TARRANT	0	24	2227	2	28	78	65	2	2817	261	6	23	33	4	9	56	75
TRAVIS	12	56	341	2	4	67	53	4	3378	330	3	18	6	1	0	52	60
All Other Counties	39	111	6633	9	198	472	437	20	44609	915	24	99	113	41	29	513	480
Cumulative TX 1990	106	473	21555	30	451	1451	1197	42	240311	4071	67	466	278	59	62	1268	1842
Cumulative TX 1989	132	522	20245	48	577	2537	1412	178	77034	3177	77	707	459	315	54	1760	1265

1990 CUMULATIVE TOTALS FOR OTHER REPORTABLE DISEASES:

Acute Occ. Pesticide Poisoning	46	Coccidioidomycosis	41	Histoplasmosis	47	Psittacosis	0	Toxic Shock Syndrom	3
Anthrax	0	Denque	0	Legionellosis	7	Q Fever	2	Trichinosis	0
Asbestosis	32	Diphtheria	0	Leptospirosis	0	Rabies	1	Tuberculosis	1490
Botulism	5	+ Elevated Blood Lead Levels	767	Listeria infections	16	Reye Syndrome	0	Tularemia	1
Brucellosis	11	Gonorrhea	32758	Lyme Disease	22	Rocky Mt Spotted Fever	6	Typhoid	10
Chlamydia trachomatis	14613	Hansen's Disease	33	Malaria	38	Silicosis	2	Typhus, Murine	22
Cholera	0	Hepatitis D (Delta Agent)	0	Plaque	0	Syphilis (P&S)	3778	Vibrio Infections	12
		Hepatitis type unspecified	178	Poliovirus	0	Tetanus	6	Yellow Fever	0

+ Blood lead level >40ug/dl in persons 15 years of age or older; summarized by date of blood lead test.

TEXAS AIDS CASES: SURVEILLANCE REPORT
Case Count by Residence and Year of Diagnosis
October 19, 1990

COUNTY	1980-1985		1986		1987		1988		1989		1990		Cumulative	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Angelina	1	1	2	2	2	1	1	1	4	2	1	0	11	7
Bell	3	3	4	2	4	2	2	2	6	1	3	0	22	10
Bexar	53	50	57	51	115	94	178	106	215	73	152	27	770	401
Bowie	1	1	2	2	6	4	10	9	5	4	2	1	26	21
Brazoria	8	8	10	9	11	7	13	6	15	5	10	2	67	37
Brazos	10	10	5	5	6	6	6	6	6	3	3	1	36	31
Cameron	1	1	5	3	3	3	17	10	16	10	17	3	59	30
Collin	1	1	2	2	5	5	4	4	5	4	2	0	19	16
Dallas	252	245	309	272	507	427	545	362	610	258	365	60	2588	1624
Denton	2	2	6	6	16	15	10	5	13	4	10	1	57	33
Ector	1	1	4	4	4	4	7	6	3	2	4	1	23	18
Ellis	0	0	1	1	7	6	6	6	4	2	0	0	18	15
El Paso	6	6	10	9	19	13	18	11	33	17	13	6	99	62
Fort Bend	10	10	10	9	16	11	6	5	21	9	10	1	73	45
Galveston	11	11	17	16	28	23	26	16	33	17	24	5	139	88
Grayson	0	0	0	0	3	1	0	0	5	0	3	0	11	1
Gregg	2	2	4	3	7	4	2	2	3	1	2	1	20	13
Harris	626	582	643	580	871	716	927	612	936	409	419	77	4422	2976
Hays	3	3	4	4	2	2	2	1	1	1	5	2	17	13
Hidalgo	6	6	0	0	7	5	7	5	18	4	14	4	52	24
Howard	2	2	3	3	1	1	3	3	3	3	1	0	13	12
Hunt	1	1	1	1	4	4	3	0	1	0	1	0	11	6
Jefferson	7	6	8	6	21	17	25	20	20	10	15	4	96	63
Johnson	1	1	1	1	3	1	7	3	2	1	3	1	17	8
Kaufman	3	3	0	0	2	1	3	2	1	0	1	0	10	6
Liberty	3	2	3	3	1	1	1	1	5	2	1	0	14	9
Lubbock	4	4	5	4	15	12	7	3	17	7	11	5	59	35
McLennan	2	2	6	5	7	5	3	3	8	4	2	1	28	20
Midland	1	1	0	0	6	5	4	2	3	0	0	0	14	8
Montgomery	6	5	3	2	10	7	14	13	13	8	11	3	57	38
Nueces	6	4	11	10	20	17	14	9	23	15	23	6	97	61
Orange	3	3	4	2	4	4	3	3	4	3	1	0	19	15
Potter	1	0	4	3	5	3	6	6	10	3	5	0	31	15
Smith	3	3	4	1	4	2	4	1	6	5	3	1	24	13
**TDC	8	8	18	13	18	10	26	12	55	18	34	5	159	66
Tarrant	44	38	53	39	131	105	114	70	132	52	99	32	573	336
Taylor	3	3	3	2	2	2	11	7	6	3	0	0	25	17
Tom Green	1	1	2	2	3	3	0	0	6	1	1	0	13	7
Travis	63	53	56	42	108	95	139	90	177	81	115	28	658	389
Victoria	0	0	3	2	3	3	2	2	3	2	2	0	13	9
Walker	3	3	1	1	3	2	2	1	2	0	1	0	12	7
Webb	1	1	4	4	5	3	5	4	4	1	9	2	28	15
Wichita	2	2	2	1	6	6	16	5	13	1	4	0	43	15
Williamson	0	0	3	3	4	4	1	1	7	2	1	0	16	10
All Others	34	29	42	37	87	71	91	63	64	25	59	15	377	240

STATEWIDE	1980 - 1985		1986		1987		1988		1989		1990		CUMULATIVE	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Case Fatality Ratio (%)	1199	1118	1335	1167	2112	1733	2291	1499	2537	1073	1462	295	10936	6885
	CFR%	93	CFR%	87	CFR%	82	CFR%	65	CFR%	42	CFR%	20	CFR%	63

* COUNTIES LISTED INDIVIDUALLY ARE THOSE WITH A CUMULATIVE TOTAL OF 10+
** CASES DIAGNOSED WHILE INCARCERATED WITHIN STATEWIDE TEXAS DEPARTMENT OF CORRECTION FACILITIES

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