

## MORTALITY

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TUBERCULOSIS MORTALITY

The number of tuberculosis deaths recorded within the boundaries of New York City during 1960 was 810, a rate of 10.4 per 100,000 population, as compared to 779 deaths, a rate of 10.0, in 1959.

Most of the increase in deaths last year occurred in the Borough of Manhattan where there was a rise of twelve percent. There was little or no change in the other four boroughs.

For the City as a whole the rate of change of the tuberculosis death rate, although generally downward, has fluctuated from year to year. For the period 1940-1948, the yearly decline ranged from one to six percent. During the years 1949-1951, the decline ranged from 9 to 18 percent, then for the period 1952-1954, the drop ranged from 12 to 26 percent. In 1956, the drop was over 10 percent, in 1957 there was a 2 percent rise, in 1958 a decline of 15 percent, in 1959, 7 percent, and, in 1960, a rise of 4 percent.

Although women outnumber men in New York City, twice as many men as women have active tuberculosis. For generations there has been proportionately more tuberculosis among males than among females and the mortality and incidence rates have for over half a century consistently been higher for the males.

TUBERCULOSIS MORTALITY\*, NEW YORK CITY, 1940, 1945, 1950-1960

Year	Male		Female		Persons					
	Deaths *	Rate †	Deaths *	Rate †	Respiratory		Other Forms		All Forms	
					Deaths *	Rate †	Deaths *	Rate †	Deaths *	Rate †
1940 .....	2,394	65	1,233	33	3,323	45	304	4	3,627	49
1945 .....	2,448	65	1,065	27	3,211	42	302	4	3,513	46
1950 .....	1,718	45	603	15	2,154	27	167	2	2,321	29
1951 .....	1,508	39	631	15	1,978	25	161	2	2,139	27
1952 .....	1,209	31	389	9	1,460	18	138	2	1,598	20
1953 .....	965	25	329	8	1,183	15	111	1	1,294	16
1954 .....	826	21	301	7	1,048	13	79	1	1,127	14
1955 .....	840	22	244	6	1,023	13.1	61	0.8	1,084	14
1956 .....	719	19	255	6	916	11.7	58	0.7	974	12
1957 .....	767	20	215	5	931	11.9	51	0.7	982	13
1958 .....	632	17	201	5	772	9.9	61	0.8	833	11
1959 .....	573	15	206	5	736	9.4	43	0.6	779	10
1960 .....	615	17	195	5	763	9.8	47	0.6	810	10

\*Included are deaths occurring within New York City (residents, non-residents and persons of unknown address). †Per 100,000 population.

RECORDED TUBERCULOSIS DEATHS\*, NEW YORK CITY, SINCE 1950

Year:-	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
<b>White</b>											
Male .....	1,262	1,087	855	676	607	629	535	554	454	388	415
Female .....	342	382	224	200	188	124	136	123	118	105	108
Both Sexes ....	1,604	1,469	1,079	876	795	753	671	677	572	493	523
<b>Nonwhite</b>											
Male .....	456	421	354	289	219	211	184	213	178	185	200
Female .....	261	249	165	129	113	120	119	92	83	101	87
Both Sexes ....	717	670	519	418	332	331	303	305	261	286	287
<b>All Races</b>											
Male .....	1,718	1,508	1,209	965	826	840	719	767	632	573	615
Female .....	603	631	389	329	301	244	255	215	201	206	195
Both Sexes ....	2,321	2,139	1,598	1,294	1,127	1,084	974	982	833	779	810

\*Included are deaths occurring within New York City (residents, non-residents and persons of unknown address).

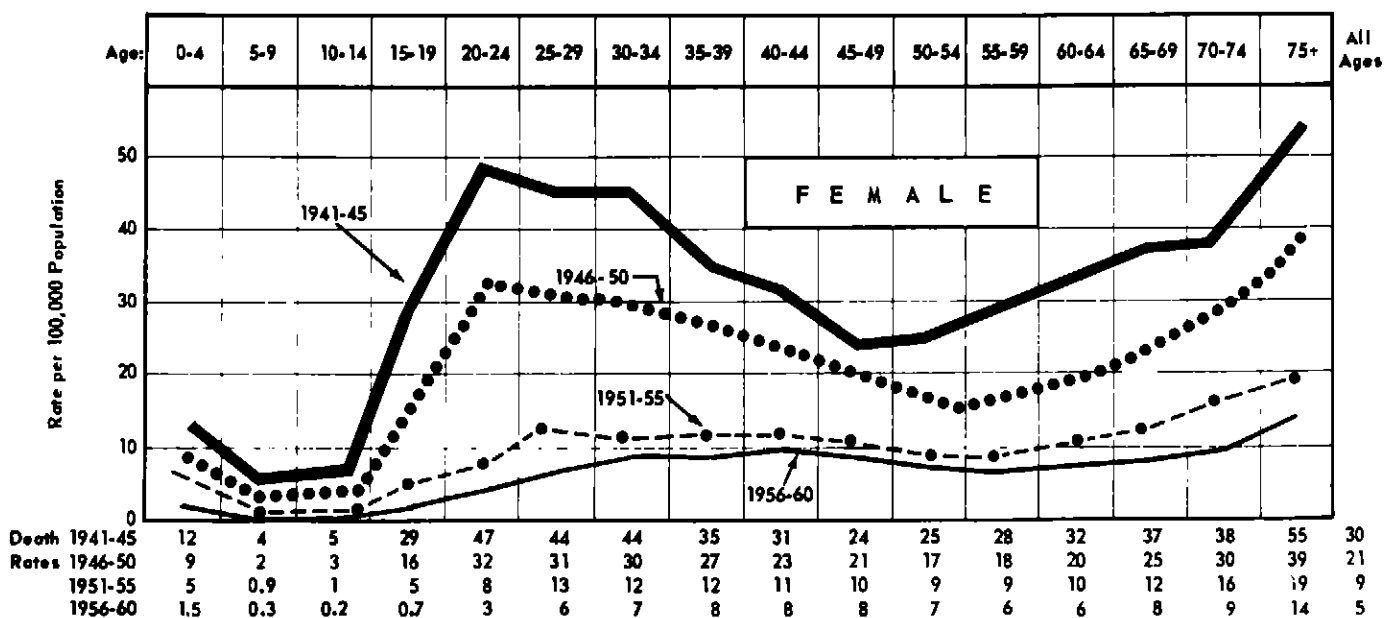
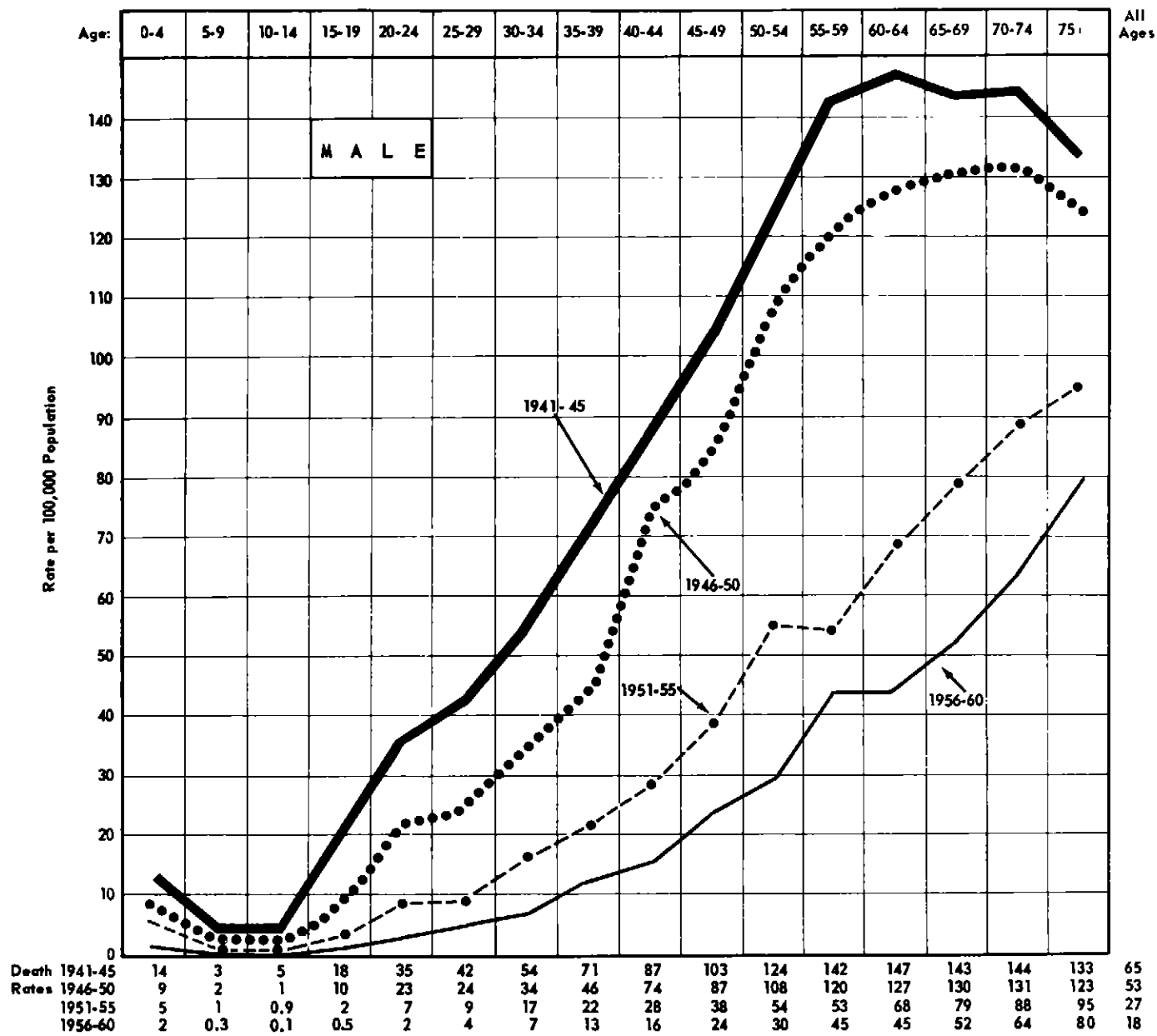
TUBERCULOSIS DEATHS AND DEATH RATES, BY ETHNIC GROUP, NEW YORK CITY  
1950-1960

Year:-	Deaths*				Death Rate†			
	White	Negro	Other	Total	White	Negro	Other	Total
1950 .....	1,604	683	34	2,321	22.6	90.4	121.0	29.4
1951 .....	1,469	632	38	2,139	20.8	80.7	131.8	27.2
1952 .....	1,079	486	33	1,598	15.4	59.8	111.6	20.3
1953 .....	876	392	26	1,294	12.6	46.6	85.8	16.4
1954 .....	795	315	17	1,127	11.4	36.2	54.8	14.4
1955 .....	753	312	19	1,084	10.9	34.7	59.8	13.9
1956 .....	671	290	13	974	9.8	31.3	40.0	12.4
1957 .....	677	282	23	982	10.0	29.4	66.2	12.6
1958 .....	572	252	9	833	8.4	25.0	21.7	10.7
1959 .....	493	272	14	779	7.4	25.8	29.0	10.0
1960 .....	523	278	9	810	7.9	25.3	16.3	10.4

\*Deaths recorded within New York City (residents who died within city, non-residents, residence unknown).

†Per 100,000 population.

**TUBERCULOSIS DEATH RATES, NEW YORK CITY**  
 Quinquennial Periods 1941-45, 1946-50, 1951-55, 1956-60



Based on reports, Bureau of Records and Statistics, Department of Health, City of New York.  
 Compiled by, New York Tuberculosis and Health Association.

TUBERCULOSIS DEATHS† BY AGE AND SEX, NEW YORK CITY, 1940, 1945, 1950-1960

Age:	0-4	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	All Ages
<b>MALES, ALL RACES</b>																			
1940	31	9	14	73	106	155	218	214	260	285	301	271	194	131	80	34	15	3	2394
1945	36	5	9	42	93	128	168	196	300	318	323	281	227	159	88	54	17	4	2448
1950	29	8	0	16	49	44	87	111	175	189	255	225	197	155	101	49	19	9	1718
1951	20	4	3	10	43	47	87	107	156	131	207	198	185	135	97	50	23	5	1508
1952	32	2	0	8	21	35	58	68	97	150	195	120	143	125	79	45	22	9	1209
1953	17	3	3	3	12	22	42	58	72	121	116	107	122	128	66	45	19	9	965
1954	11	3	3	0	9	15	33	50	53	85	136	117	98	83	64	47	14	5	826
1955	19	2	0	4	6	23	20	46	55	79	117	106	131	95	74	42	13	8	840
1956	5	1	0	2	5	14	20	47	47	75	84	100	112	76	59	34	25	13	719
1957	9	0	1	1	6	14	21	33	56	82	91	117	96	89	70	40	28	13	767
1958	7	1	1	2	6	11	20	29	41	67	73	104	87	78	53	29	15	8	632
1959	5	2	0	1	4	4	26	29	31	50	77	93	77	72	47	29	18	8	573
1960	3	1	0	0	5	9	14	36	42	58	77	90	76	72	71	37	10	14	615
<b>FEMALES, ALL RACES</b>																			
1940	27	8	21	92	189	180	153	129	101	68	78	44	47	40	27	19	8	2	1233
1945	27	7	8	61	149	162	146	114	103	60	55	46	35	34	17	22	14	5	1065
1950	32	2	7	20	59	66	60	70	59	57	36	29	34	19	23	20	7	3	603
1951	30	3	3	25	35	92	67	62	76	52	41	39	29	23	28	10	12	4	631
1952	20	3	3	11	42	40	41	46	30	22	25	21	19	24	18	14	6	4	389
1953	21	2	1	6	18	26	39	34	30	31	20	25	23	15	15	14	4	5	329
1954	13	1	3	6	18	35	26	36	34	28	31	13	12	21	14	3	3	4	301
1955	6	3	1	3	13	24	26	39	24	29	18	15	12	12	5	8	4	2	244
1956	6	2	0	2	10	23	29	26	30	35	18	19	15	12	7	10	6	5	255
1957	5	1	0	3	9	22	21	23	38	25	24	9	11	9	8	3	1	3	215
1958	5	1	2	2	7	13	24	22	26	21	15	11	12	15	13	5	2	5	201
1959	7	0	0	0	7	12	18	28	14	26	22	14	14	15	10	9	4	6	206
1960	1	1	1	1	10	14	21	25	25	14	17	12	8	18	10	5	7	5	195
<b>BOTH SEXES, ALL RACES</b>																			
1940	58	17	35	165	295	335	371	343	361	353	379	315	241	171	107	53	23	5	3627
1945	63	12	17	103	242	290	314	310	403	378	378	327	262	193	105	76	31	9	3513
1950	61	10	7	36	108	110	147	181	234	246	291	254	231	174	124	69	26	12	2321
1951	50	7	6	35	78	139	154	169	232	183	248	237	214	158	125	60	35	9	2139
1952	52	5	3	19	63	75	99	114	127	172	220	141	162	149	97	59	28	13	1598
1953	38	5	4	9	30	48	81	92	102	152	136	132	145	143	81	59	23	14	1294
1954	24	4	6	6	27	50	59	86	87	113	167	130	110	104	78	50	17	9	1127
1955	25	5	1	7	19	47	46	85	79	108	135	121	143	107	79	50	17	10	1084
1956	11	3	0	4	15	37	49	73	77	110	102	119	127	88	66	44	31	18	974
1957	14	1	1	4	15	36	42	56	94	107	115	126	107	98	78	43	29	16	982
1958	12	2	3	4	13	24	44	51	67	88	88	115	99	93	66	34	17	13	833
1959	12	2	0	1	11	16	44	57	45	76	99	107	91	87	57	38	22	14	779
1960	4	2	1	1	15	23	35	61	67	72	94	102	84	90	81	42	17	19	810

†Total tuberculosis deaths recorded in New York City (residents who died within city, non-residents, residence unknown), exclusive of city residents who died out of town.

RESIDENT TUBERCULOSIS MORTALITY, NEW YORK CITY, 1959 AND 1960

Health Center DISTRICT	Population April 1, 1960	Resident Deaths in City*			Death Rate†	
		1959	1960	Change 1960/59	1959	1960
Central Harlem .....	232,792	82	97	+ 15	35	42
East Harlem .....	177,765	34	30	- 4	19	17
Kips Bay-Yorkville .....	215,192	22	19	- 3	10	9
Lower East Side .....	271,896	73	85	+ 12	26	31
Lower West Side .....	262,751	77	95	+ 18	28	37
Riverside .....	268,608	41	39	- 2	15	15
Washington Heights .....	269,277	21	23	+ 2	8	9
MANHATTAN: .....	1,698,281	350	388	+ 38	20	23
Fordham-Riverdale .....	231,931	12	11	- 1	5	5
Morrisania .....	262,436	23	26	+ 3	9	10
Mott Haven .....	223,703	19	29	+ 10	9	13
Pelham Bay .....	184,451	6	7	+ 1	3	4
Tremont .....	263,295	22	19	- 3	8	7
Westchester .....	258,999	14	6	- 8	5	2
BRONX: .....	1,424,815	96	98	+ 2	7	7
Bay Ridge .....	290,395	8	8	..	3	3
Bedford .....	286,764	48	48	..	17	17
Brownsville .....	298,473	16	11	- 5	5	4
Bushwick .....	216,744	15	20	+ 5	7	9
Flatbush .....	475,715	29	19	- 10	6	4
Fort Greene .....	215,314	33	33	..	15	15
Gravesend .....	296,430	7	10	+ 3	2	3
Red Hook-Gowanus .....	162,125	39	17	- 22	24	11
Sunset Park .....	192,702	19	15	- 4	10	8
Wmsbrg.-Greenpoint .....	192,657	21	28	+ 7	11	15
BROOKLYN: .....	2,627,319	235	209	- 26	9	8
Astoria-Long Island City..	255,464	15	14	- 1	6	5
Corona .....	217,984	12	8	- 4	6	4
Flushing .....	452,204	15	16	+ 1	3	4
Jamaica East .....	293,342	19	24	+ 5	7	8
Jamaica West .....	309,061	23	15	- 8	8	5
Maspeth-Forest Hills .....	281,523	12	15	+ 3	4	5
QUEENS: .....	1,809,578	96	92	- 4	5	5
RICHMOND: .....	221,991	9	8	- 1	4	4
NEW YORK CITY: .....	7,781,984	786	795	+ 9	10	10

\*Includes residents who died outside of New York City.

†Deaths per 100,000 population.

RESIDENT TUBERCULOSIS DEATHS\* BY ETHNIC GROUP  
New York City, 1945-1960

Year	White	Negro	Puerto Rican	Yellow	Others	Un-known	All Races
1945	2,741	966	115	79	2	41	3,944
1946	2,430	794	77	64	7	70	3,442
1947	2,124	835	66	46	5	112	3,188
1948	2,226	923	84	61	3	135	3,432
1949	1,806	804	68	46	2	123	2,849
1950	1,521	628	55	35	5	89	2,333
1951	1,407	589	76	35	4	60	2,171
1952	1,200	524	58	36	4	51	1,873
1953	802	364	29	24	3	26	1,248
1954	733	293	42	19	3	23	1,113
1955	714	287	38	17	1	11	1,068
1956	682	281	30	13	0	14	1,020
1957	622	262	38	20	1	9	952
1958	529	243	27	9	2	8	818
1959	490	235	24	16	4	17	786
1960	476	256	33	9	1	20	795

\*As defined by Department of Health, The City of New York. Cases removed from the roster with tuberculosis as the cause of death, including deaths of residents who died outside of New York City.

RESIDENT TUBERCULOSIS DEATHS\* NEW YORK CITY  
(including residents who died outside of city)  
Sex and Ethnic Group, 1954-1960

Ethnic Group	Male							Female						
	1954	1955	1956	1957	1958	1959	1960	1954	1955	1956	1957	1958	1959	1960
White	568	607	557	524	424	390	394	165	107	125	98	105	100	82
Negro	188	176	174	174	165	149	174	105	111	107	88	78	86	82
Puerto Rican	21	21	14	17	13	19	16	21	17	16	21	14	5	17
Yellow	17	16	12	20	9	16	8	2	1	1	0	0	0	1
Other	3	1	0	1	2	3	0	0	0	0	0	0	1	1
Unknown	17	9	9	6	5	14	17	6	2	5	3	3	3	3
All races..	814	830	766	742	618	591	609	299	238	254	210	200	195	186

Total resident TB deaths: 1954 = 1,113, 1955 = 1,068, 1956 = 1,020, 1957 = 952, 1958 = 818, 1959 = 786, 1960 = 795.

\*Cases removed from the roster with tuberculosis as the cause of death.

TUBERCULOSIS IN NEW YORK CITY BY SEX

Year	Deaths		New Cases		Known Active Cases†	
	Male	Female	Male	Female	Male	Female
1900 .....	5,783	3,847	...	...	...	...
1950 .....	1,718	603	4,854	2,863	11,648	7,411
1955 .....	840	244	3,971	2,243	9,274	4,568
1960 .....	615	195	3,124	1,575	6,017	2,672

†Active tuberculosis cases in register as of December 31.  
 Population: 1900 (M. = 1,705,705, F. = 1,731,497), 1960  
 (M. = 3,719,257, F. = 4,062,727). (...) = data unavailable.

The difference in the sex ratio for persons with active tuberculosis on December 31, 1960 is particularly prominent for white persons. White males (3,387) contributed 77 percent of the cases and the white females (1,023), 23 percent. Among Negroes the males (1,808) were 63 percent, the females (1,081), 37 percent, among Puerto Ricans the males (484), 49 percent, females (497), 51 percent. Oriental males (121) had twelve times as much tuberculosis as females (10).

MORE TUBERCULOSIS DEATHS AMONG NEW YORK CITY RESIDENTS  
 IN 1960

In 1960 there were 795 tuberculosis deaths of New York City residents (in and out of town) compared to 786 in 1959. This slight rise in the total resident deaths is accounted for by the increase predominantly among Negro males in the older age groups who last year had 174 deaths as against 149 the year before or 17 percent more. There were also more deaths among Puerto Rican females going from 5 to 17 deaths. The white males contributed an additional 4 deaths, males of unknown ethnic groups 3 deaths, and there was a death of an oriental female. Therefore, the increase of 45 deaths in the above specified groups and a decrease of 36 deaths in the remaining sex-ethnic categories produced a net of 9 more deaths last year.



LEADING CAUSES OF DEATH, NEW YORK CITY, 1960

Rank †	Cause of Death‡	All Races		White		Nonwhite	
		Deaths	Rate*	Deaths	Rate*	Deaths	Rate*
1	Diseases of the heart .....	37,285	479	34,200	515	3,085	270
2	Malignant neoplasms .....	17,163	221	15,470	233	1,693	148
3	Vascular lesions, cent. nerv. syst.	6,091	78	5,440	82	651	57
4	Pneumonias, influenza .....	3,597	46	2,895	44	702	62
5	Diseases of early infancy .....	2,792	36	1,758	26	1,034	91
6	Accidents .....	2,658	34	2,195	33	463	41
7	Cirrhosis of liver .....	2,266	29	1,792	27	474	42
8	Diabetes mellitus .....	1,687	22	1,447	22	240	21
9	General arteriosclerosis .....	1,162	15	1,065	16	97	8
10	Congenital malformations .....	994	13	826	12	168	15
11	Suicides .....	856	11	759	11	97	8
12	Tuberculosis .....	810	10	523	8	287	25
-	Other (remaining) causes .....	8,891	..	7,084	..	1,807	..
	All causes .....	86,252	1,108	75,454	1,136	10,798	946

†Rank for all races. ‡Causes of death, International List (7th rev.): (1) Diseases of the heart, 410-443; (2) Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, 140-205; (3) Vascular lesions affecting central nervous system, 330-334; (4) Influenza and pneumonia, except pneumonia of newborn, 480-493; (5) Certain diseases of early infancy, 750-776; (6) Accidents, 800-962; (7) Cirrhosis of the liver, 581; (8) Diabetes mellitus, 260; (9) General arteriosclerosis, 450; (10) Congenital malformations, 750-759; (11) Suicides, 963; 970-979; (12) Tuberculosis, all forms, 001-019.

TUBERCULOSIS MORTALITY ACCORDING TO AGE, NEW YORK CITY, 1960

Age Group	Respiratory System		Other Forms		All Forms	
	Deaths	Rate*	Deaths	Rate*	Deaths	Rate*
0 - 5 .....	1	0.1	3	0.4	4	0.6
5 - 9 .....	0	..	2	0.3	2	0.3
10 - 14 .....	1	0.2	0	..	1	0.2
15 - 24 .....	14	1.4	2	0.2	16	1.7
25 - 34 .....	52	4.9	6	0.6	58	5.5
35 - 44 .....	117	10.9	11	1.0	128	11.9
45 - 54 .....	158	14.6	8	0.7	166	15.3
55 - 64 .....	181	19.4	5	0.5	186	20.0
65 - 74 .....	165	28.2	6	1.0	171	29.3
75+ .....	74	32.2	4	1.7	78	34.0
All ages .....	763	9.8	47	0.6	810	10.4

TUBERCULOSIS MORTALITY BY SEX AND RACE, NEW YORK CITY, 1960

Sex	White		Nonwhite		All Races	
	Deaths	Rate*	Deaths	Rate*	Deaths	Rate*
Male .....	415	13.0	200	37.7	615	16.5
Female .....	108	3.1	87	14.2	195	4.8
Both Sexes .....	523	7.9	287	25.1	810	10.4

\*Per 100,000 population. April 1, 1960: Total 7,781,984 (White = 6,640,602, Nonwhite = 1,141,322).

DEATHS FROM LEADING INFECTIOUS AND PARASITIC DISEASES,  
PNEUMONIA AND INFLUENZA  
New York City, 1956 - 1960

Disease	Total Deaths	Annual Average	
		Deaths	Rate†
Pneumonia, bacterial and all other forms .....	16,954	3,391	43.6
Tuberculosis, all forms .....	4,378	876	11.2
Syphilis and its sequelae .....	591	118	1.5
Influenza .....	338	68	0.9
Infectious hepatitis .....	218	44	0.6
Meningococcal infections .....	133	27	0.3
Septicemia and pyemia .....	120	24	0.3
Acute infectious encephalitis .....	91	18	0.23
Late effects, ac. enceph. ....	18	4	0.04
Acute poliomyelitis .....	40	8	0.1
Late effects, ac. polio .....	21	4	0.05
Diseases ascribed to viruses .....	32	6	0.08
Chickenpox .....	25	5	0.06
Streptococcal sore throat .....	19	4	0.04
Gonococcal infection .....	18	4	0.04
Paratyphoid fev., other salmonella inf. ....	11	2	0.03
Other bacterial diseases .....	11	2	0.03
Whooping cough .....	10	2	0.03
Dysentery, all forms .....	9	2	0.02
Typhoid fever .....	7	1	0.02
Erysipelas .....	4	..	--
Other venereal diseases .....	3	..	--
Scarlet fever .....	3	..	--
Spirochetal dis., except syphilis .....	2	..	--
Food poisoning .....	1	..	--
Diphtheria .....	1	..	--
Malaria .....	1	..	--
All other .....	127	25	0.3

(..) = Average less than 1 per year.      †Per 100,000 population.