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VITAL STATISTICS REPORT

Final Mortality Statistics, 1969

FROM THE

NATIONAL CENTER FOR HEALTH STATISTICS

Final Infant, Fetal, and Maternal Mortality, 1969

This report presents infant and maternal mortality rates and fetal mortality ratios for 1969. It is a supplement to the Final Mortality Statistics Advance Report, *Monthly Vital Statistics Report*, Vol. 21, No. 4, Supplement (2).

Infant mortality continued the downward trend evidenced over the last decade, dropping to a record low of 20.9 infant deaths per 1,000 live births. This is 4.1 percent below the level of 21.8 in 1968. The neonatal rate declined by 3.1 percent (from 16.1 to 15.6) and the postneonatal rate, by 7 percent (from 5.7 to 5.3).

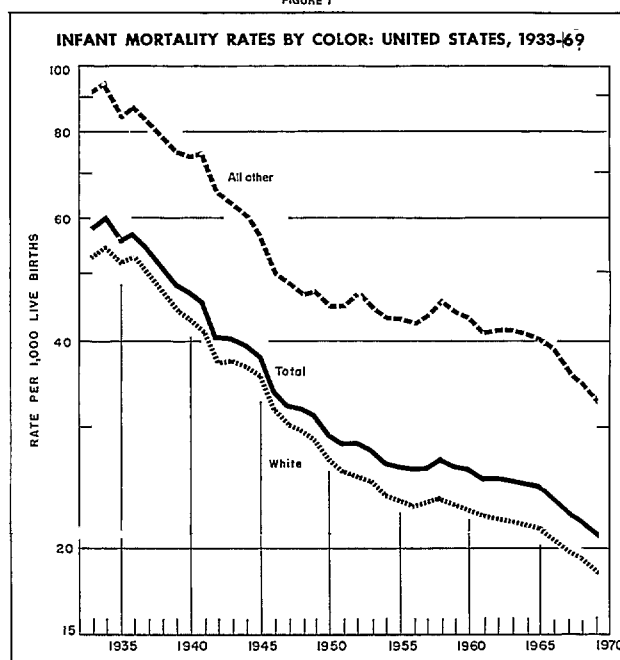
The infant mortality rate for Certain causes of mortality in early infancy, which accounted for 57 percent of all deaths under 1 year of age, decreased by 4.2 percent from 1968 (table 2). The major causes within this group of diseases generally showed a decrease in their rates: Asphyxia of newborn, unspecified, decreased by 9.1 percent and Immaturity, unqualified, by 7.7 percent. However, Hyaline membrane disease and Respiratory distress syndrome showed increases of 2.7 and 7.7 percent, respectively. The rate for Influenza and pneumonia was 12.2 percent lower in 1969 than in the influenza epidemic year of 1968.

The fetal death ratio has also declined over the past several years, although not as consistently as infant mortality. In 1969 the ratio was 14.1 fetal deaths of 20 weeks or more gestation per 1,000 live births, or 10.8 percent below the 1968 level of 15.8. However, due to a change in the procedure of counting the number

Table A. Infant mortality rates by age and color, 1969

Color	Under 1 year	Under 28 days	28 days-11 months
Total-----	20.9	15.6	5.3
White-----	18.4	14.2	4.2
All other-----	32.9	22.5	10.4

FIGURE 1



of fetal deaths included in the numerator of the ratio this decrease is partly artificial. In 1968 and earlier years fetal deaths of 20 weeks or more gestation also included all fetal deaths with gestation not stated on the assumption that most of the latter were actually of 20 weeks or more gestation. Beginning in 1969 fetal deaths with gestation not stated were excluded for States that required registration of fetal deaths of less than 20 weeks of gestation, or where birth weight indicated that the fetal death was probably less than 20 weeks of gestation. Under the 1968 criteria the 1969 fetal death ratio would have been 15.4 or only 2.5 percent below the ratio for 1968.

There were 22.2 maternal deaths per 100,000 live births in 1969, a rate which, like the other natality-related rates, fell to a record low. Each cause of maternal mortality was lower in 1969 than in 1968 ex-

Continued on p. 4.

MONTHLY VITAL STATISTICS REPORT

Table 1. INFANT, NEONATAL, AND POSTNEONATAL DEATHS AND RATES; AND FETAL DEATHS AND RATIOS FOR THE UNITED STATES, EACH REGION, DIVISION, AND STATE; AND BY COLOR AND SEX FOR THE UNITED STATES: 1969
 [By place of residence. Refers only to events occurring within the United States]

Color, sex, and area	Infant deaths ¹ (under 1 year)		Neonatal deaths ¹ (under 28 days)		Postneonatal deaths		Fetal deaths ²	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
United States-----	75,073	20.9	56,085	15.6	18,988	5.3	50,749	14.1
Male----	43,280	23.4	32,675	17.7	10,606	5.7	27,076	14.7
Female----	31,793	18.1	23,410	13.3	8,383	4.6	23,673	13.5
White-----	55,108	18.4	42,408	14.2	12,700	4.2	37,091	12.4
Male----	32,158	20.9	24,918	16.2	7,240	4.7	19,685	12.8
Female----	22,950	15.6	17,490	12.0	5,460	3.8	17,406	12.0
All other-----	19,965	32.9	13,677	22.5	6,288	10.4	13,658	22.5
Male----	11,122	36.2	7,757	25.3	3,365	11.0	7,391	24.1
Female----	8,843	29.5	5,920	19.8	2,923	9.8	6,267	20.9
Regions:								
Northeast-----	16,527	20.4	12,723	15.7	3,804	4.7	12,945	15.9
North Central-----	19,840	19.9	15,223	15.3	4,617	4.6	12,595	12.6
South-----	26,813	23.0	19,423	16.7	7,390	6.3	17,710	15.2
West-----	11,893	18.9	8,716	13.9	3,177	5.1	7,599	12.1
NORTHEAST								
New England-----	3,701	18.9	2,947	15.0	754	3.8	2,268	11.6
Maine-----	348	20.2	273	15.8	75	4.3	119	6.9
New Hampshire-----	263	20.5	200	15.6	63	4.9	159	12.4
Vermont-----	158	20.0	130	16.4	28	3.5	149	18.8
Massachusetts-----	1,699	18.3	1,379	14.8	320	3.4	1,057	11.4
Rhode Island-----	305	19.8	236	15.3	69	4.5	187	12.8
Connecticut-----	928	18.7	729	14.7	199	4.0	587	11.8
Middle Atlantic-----	12,826	20.9	9,776	15.9	3,050	5.0	10,577	17.2
New York-----	6,578	21.2	4,970	16.0	1,608	5.2	5,970	19.2
New Jersey-----	2,346	20.0	1,777	15.2	569	4.9	1,549	13.2
Pennsylvania-----	3,902	21.0	3,029	16.3	873	4.7	3,058	16.5
NORTH CENTRAL								
East North Central-----	14,657	20.4	11,179	15.5	3,478	4.8	9,325	13.0
Ohio-----	3,668	19.3	2,853	15.0	815	4.3	2,389	12.6
Indiana-----	1,925	20.5	1,453	15.5	472	5.0	1,218	13.0
Illinois-----	4,389	22.4	3,339	17.0	1,050	5.4	2,669	13.6
Michigan-----	3,390	20.5	2,598	15.6	804	4.9	2,181	13.2
Wisconsin-----	1,285	17.3	948	12.8	337	4.5	868	11.7
West North Central-----	5,183	18.6	4,044	14.6	1,139	4.1	3,270	11.8
Minnesota-----	1,113	16.9	894	13.4	229	3.5	712	10.8
Iowa-----	894	18.9	702	14.9	192	4.1	494	10.5
Missouri-----	1,666	21.1	1,283	16.3	383	4.9	1,022	13.0
North Dakota-----	180	16.7	144	13.3	36	3.3	151	14.0
South Dakota-----	229	20.0	171	14.9	58	5.1	124	10.8
Nebraska-----	423	17.1	334	13.5	89	3.6	295	11.9
Kansas-----	678	18.3	526	14.2	152	4.1	472	12.7
SOUTH								
South Atlantic-----	12,580	22.9	9,070	16.5	3,510	6.4	8,484	15.5
Delaware-----	228	22.6	183	18.1	45	4.5	128	12.7
Maryland-----	1,354	19.6	1,006	14.6	348	5.0	924	13.4
District of Columbia-----	439	29.8	344	23.3	95	6.4	308	21.0
Virginia-----	1,842	22.1	1,391	16.7	451	5.4	1,411	16.9
West Virginia-----	663	23.0	497	17.3	166	5.8	434	15.1
North Carolina-----	2,342	25.0	1,623	17.3	719	7.7	1,535	16.4
South Carolina-----	1,223	24.1	776	15.3	447	8.8	824	16.3
Georgia-----	2,058	22.7	1,433	15.8	625	6.9	1,393	15.4
Florida-----	2,431	22.6	1,817	16.9	614	5.7	1,526	14.2
East South Central-----	5,942	24.8	4,260	17.6	1,682	7.0	4,027	16.8
Kentucky-----	1,201	20.9	862	15.3	319	5.6	689	12.0
Tennessee-----	1,537	21.9	1,136	16.2	401	5.7	1,091	15.6
Alabama-----	1,695	26.2	1,177	18.2	518	8.0	1,119	17.3
Mississippi-----	1,509	32.1	1,065	22.6	444	9.4	1,128	24.0
West South Central-----	8,291	21.9	6,093	16.1	2,198	5.8	5,199	13.7
Arkansas-----	716	21.1	481	14.2	235	6.9	480	14.2
Louisiana-----	1,839	24.6	1,336	17.9	502	6.7	1,113	14.9
Oklahoma-----	877	20.4	675	15.7	202	4.7	508	11.8
Texas-----	4,860	21.4	3,601	15.9	1,259	5.6	3,088	13.7
WEST								
Mountain-----	3,282	20.6	2,381	14.9	901	5.6	2,131	13.3
Montana-----	246	21.0	183	15.6	63	5.4	135	11.5
Idaho-----	255	19.0	190	14.1	65	4.8	136	10.1
Wyoming-----	164	27.3	137	22.8	27	4.5	97	16.2
Colorado-----	803	20.4	604	15.3	199	5.1	735	16.7
New Mexico-----	515	24.0	350	16.3	165	7.7	297	13.4
Arizona-----	741	21.6	514	15.0	227	6.6	411	12.0
Utah-----	369	16.0	281	11.6	108	4.4	238	9.8
Nevada-----	169	18.7	122	13.5	47	5.2	92	10.2
Pacific-----	8,611	18.3	6,335	13.5	2,276	4.8	5,468	11.7
Washington-----	1,121	18.9	800	13.5	321	5.4	644	10.8
Oregon-----	593	17.5	411	12.1	182	5.4	457	13.5
California-----	6,470	18.3	4,800	13.6	1,670	4.7	4,047	11.4
Alaska-----	127	18.5	87	12.7	40	5.8	66	9.6
Hawaii-----	300	19.2	237	15.1	63	4.0	254	16.2

¹Excludes fetal deaths. Rates per 1,000 live births.

²Includes only those deaths for which the stated or presumed period of gestation was 20 weeks or more. Ratios per 1,000 live births. Figures for sex not stated have been distributed proportionately.

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Table 2. INFANT MORTALITY RATES FOR 65 SELECTED CAUSES, BY COLOR: 1969

[Rates are deaths under 1 year per 100,000 live births in specified group. Numbers after causes of death are category numbers of the Eighth Revision, International Classification of Diseases, Adapted, 1965. Asterisk indicates rate based on a frequency of less than 20]

Cause of death	Total	White	All other
All causes-----	2,085.2	1,840.9	3,291.3
Diarrheal diseases-----009	23.1	12.7	74.3
Whooping cough-----033	*0.3	*0.2	*0.7
Meningococcal infections-----036	3.9	4.0	3.6
Tetanus-----037	*0.2	*0.1	*0.7
Septicemia-----038	21.1	16.0	46.0
Viral diseases-----040-079	7.5	6.3	13.5
Congenital syphilis-----080	0.6	*0.4	*1.8
Other infective and parasitic diseases-----Remainder of 000-136	6.8	5.0	16.0
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues-----140-209	4.5	4.9	*2.5
Benign neoplasms and neoplasms of unspecified nature-----210-239	1.9	1.8	*2.6
Diseases of thymus gland-----254	0.8	0.8	*0.8
Cystic fibrosis-----273.0	3.5	3.8	*1.8
Diseases of the blood and blood-forming organs-----280-289	4.4	3.5	8.7
Meningitis-----320	15.3	12.1	31.2
Other diseases of nervous system and sense organs-----321-389	13.3	12.2	19.0
Acute upper respiratory infections-----460-465	6.4	5.2	12.4
Bronchitis and bronchiolitis-----466,490,491	15.9	11.5	37.4
Influenza and pneumonia-----470-474,480-486	198.3	148.3	445.3
Influenza-----470-474	3.5	2.2	9.7
Pneumonia-----480-486	194.8	146.1	435.5
Other chronic interstitial pneumonia-----517	*0.5	*0.5	*0.8
All other diseases of respiratory system-----492,493,500-516,518,519	16.6	14.5	26.9
Hernia and intestinal obstruction-----520-533,560	17.7	17.3	19.8
Gastritis, duodenitis, enteritis, and colitis of noninfectious origin-----535,561,565	1.6	1.1	4.0
Other diseases of digestive system-----520-534,536,537,540-543,562,564-577	12.0	10.5	19.6
Congenital anomalies-----740-769	314.1	318.1	294.6
Anencephalus-----740	26.6	29.3	12.9
Spina bifida-----741	19.0	21.1	8.7
Congenital hydrocephalus-----742	17.0	16.8	17.8
Other congenital anomalies of central nervous system and eye-----743,744	12.8	13.6	8.6
Congenital anomalies of heart-----746	123.8	122.5	130.2
Other congenital anomalies of circulatory system-----747	18.9	19.1	17.6
Congenital anomalies of respiratory system-----748	14.0	13.8	14.8
Congenital anomalies of digestive system-----749-751	22.0	21.4	25.2
Congenital anomalies of genitourinary system-----752,753	11.3	11.8	9.2
Congenital anomalies of musculoskeletal system-----754-756	9.5	9.7	8.7
Down's disease-----759.3	3.8	3.8	4.0
Other congenital syndromes affecting multiple systems-----759.0-759.2,759.4-759.9	29.4	29.6	28.5
Other and unspecified congenital anomalies-----745,757,758	6.0	5.6	8.2
Certain causes of mortality in early infancy-----760-769.2,769.4-772,774-778	1,196.0	1,076.9	1,785.9
Chronic circulatory and genitourinary diseases in mother-----760	*0.5	*0.4	*1.2
Other maternal conditions unrelated to pregnancy-----761	13.4	13.1	15.0
Syphilis-----761.0	*0.1	*0.0	*0.5
Diabetes mellitus-----761.1	6.9	7.3	4.9
Rubella-----761.3	0.6	*0.6	*0.8
All other maternal conditions unrelated to pregnancy-----761.2,761.4-761.7,761.9	5.7	5.1	8.7
Toxemia of pregnancy-----762	4.9	3.8	10.1
Maternal antepartum and intrapartum infection-----763	6.7	5.3	13.7
Difficult labor-----764-768	24.1	21.9	34.5
With mention of birth injury (.0-.3)-----	10.6	9.3	17.3
Without mention of birth injury (.4,.9)-----	13.4	12.7	17.1
All other complications of pregnancy and childbirth-----769.0-769.2,769.4,769.5,769.9	147.8	134.6	213.0
Conditions of placenta-----770	70.0	70.7	68.6
Conditions of umbilical cord-----771	13.7	13.6	14.0
Birth injury without mention of cause-----772	47.0	40.7	78.1
Hemolytic disease of newborn-----774,775	24.7	27.3	12.0
Hyaline membrane disease-----776.1	133.5	134.6	128.3
Respiratory distress syndrome-----776.2	114.4	105.4	158.8
Asphyxia of newborn, unspecified-----776.9	266.3	237.1	410.7
All other anoxic and hypoxic conditions not elsewhere classifiable-----776.0,776.3,776.4	22.5	18.9	39.1
Immaturity, unqualified-----777	248.5	202.6	474.8
Postmaturity-----778.1	*0.1	*0.1	*0.3
Hemorrhagic disease of newborn-----778.2	12.0	10.6	19.3
All other conditions of newborn-----778.0,778.3,778.9	46.2	36.4	94.6
Symptoms and ill-defined conditions-----780-796	69.1	61.5	225.0
Accidents-----E800-E849	67.4	57.0	118.4
Inhalation and ingestion of food or other object causing obstruction or suffocation-----E911,E912	21.5	17.8	36.7
Accidental mechanical suffocation-----E913	17.2	14.6	30.0
Other accidental causes-----E800,E910,E914-E949	28.8	24.6	49.6
Homicide-----E960-E978	4.2	3.4	8.2
All other causes-----Residual	38.0	31.1	71.9

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Table 3. MATERNAL MORTALITY RATES FOR SELECTED CAUSES, BY AGE AND COLOR: UNITED STATES, 1969

[Maternal deaths are those assigned to Complications of pregnancy, childbirth, and the puerperium, category numbers 630-678 of the Eighth Revision, International Classification of Diseases, Adapted, 1965. Rates per 100,000 live births in specified group]

Cause of death and color	Total	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45 years and over ¹
RATE PER 100,000 LIVE BIRTHS								
Complications of pregnancy, childbirth, and the puerperium (630-678)-----	22.2	17.7	13.1	17.0	34.9	69.6	119.3	176.5
White-----	15.5	10.0	9.9	13.0	23.3	47.8	78.7	73.2
All other--	55.7	36.7	31.3	45.9	100.1	173.9	299.7	600.6
Ectopic pregnancy (631)-----	1.7	1.0	1.2	1.0	2.6	6.3	5.5	29.4
White-----	1.1	0.9	0.6	1.1	1.7	2.5	2.2	-
All other--	4.5	1.1	3.4	0.9	9.4	24.4	19.9	150.2
Toxemias of pregnancy and puerperium, except abortion with toxemia (636-639)-----	3.9	3.9	2.7	2.7	6.1	9.5	14.7	58.6
White-----	2.6	2.1	2.3	1.9	2.8	7.0	11.2	36.6
All other--	10.4	8.5	5.4	8.5	25.0	21.4	29.9	150.2
Hemorrhage of pregnancy and childbirth (632,651-653)-----	2.9	1.0	1.5	1.7	6.1	11.6	25.7	29.4
White-----	1.9	0.7	1.0	1.3	3.6	7.6	13.5	-
All other--	8.2	1.7	4.9	4.3	20.3	30.5	79.6	150.2
Abortions (640-645)-----	3.7	3.9	2.1	3.3	5.4	7.9	16.5	-
White-----	2.2	1.8	1.2	2.3	3.9	5.1	4.5	-
All other--	11.0	9.0	7.3	11.1	14.1	21.4	69.7	-
Abortion induced for legal indications (640,641)-----	0.0	-	-	0.1	-	-	-	-
White-----	0.0	-	-	0.1	-	-	-	-
All other--	-	-	-	-	-	-	-	-
Abortion induced for other reasons (642)-----	1.6	2.1	1.0	1.4	2.4	3.2	5.5	-
White-----	1.1	0.7	0.9	1.0	1.7	2.5	2.2	-
All other--	4.5	5.6	2.0	4.3	6.3	6.1	19.9	-
Spontaneous abortion (643)-----	0.4	0.2	0.2	0.4	0.9	0.5	5.5	-
White-----	0.2	-	0.2	0.2	0.6	-	-	-
All other--	1.6	0.6	0.5	1.7	3.1	3.1	29.9	-
Other and unspecified abortions (644,645)-----	1.6	1.6	0.9	1.5	2.1	4.2	5.5	-
White-----	0.9	1.1	0.2	1.0	1.7	2.5	2.2	-
All other--	4.9	2.8	4.9	5.1	4.7	12.2	19.9	-
Sepsis of childbirth and puerperium (670,671,673)-----	4.2	4.1	2.6	3.1	5.0	12.1	27.5	58.6
White-----	3.4	3.2	2.2	2.9	4.2	8.3	20.2	36.6
All other--	8.2	6.2	4.9	5.1	9.4	30.5	59.7	150.2
All other complications of pregnancy, childbirth, and the puerperium (630,633-635,654-662,672,674-678)-----	5.8	3.7	2.9	5.1	9.0	22.1	29.4	-
White-----	4.3	1.4	2.5	3.6	6.9	17.2	27.0	-
All other--	13.0	9.6	5.4	16.2	20.3	45.8	39.6	-
Delivery without mention of complications (650)-----	0.1	0.2	-	-	0.5	-	-	-
White-----	0.0	-	-	-	0.3	-	-	-
All other--	0.3	0.6	-	-	1.6	-	-	-

¹Rates computed by relating deaths to women 45 years and over to live births to women 45-49 years.

cept for Abortion induced for other than legal reasons and Other and unspecified abortions. By color, the rate for white women declined by 6.6 percent and that for all other women, by 12.4 percent. Among women under 45 years of age the greatest percentage decrease in maternal mortality rates occurred at ages 25-29, a decline of 15.4 percent. The decrease was progressively less at older age groups until at ages 40-44 years where the decrease was only 2.5 percent. Among the oldest women, 45 years and over, the maternal mortality rate dropped by more than one quarter. The rate for the youngest women, those under 20 years of age, increased 8.6 percent.

SYMBOLS

Data not available	---
Category not applicable	...
Quantity zero	-
Quantity more than 0 but less than 0.05	0.0
Figure does not meet standards of reliability or precision	*

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