APPENDIX.

CONTENTS.

Page LETTER to the REGISTRAR GENERAL on the CAUSES of DEATH in ENGLAND in LETTER to the REGISTRAR GENERAL on the CAUSES of DEATH in ENGLAND, by WILLIAM FARR, Esq., M.D., F.R.S., D.C.L.

YEAR 1859.

SIR, I BEG to submit to you the returns of the causes of the deaths which have occurred during the year 1859 in England and Wales.

Few men live the natural lifetime of a hundred years; and as their bodies live, so they also die, by the action and reaction of their elements and of the elements of the external world.

The types of diseases have probably undergone as many changes as the human species, which according to the great hypothesis of Darwin, is itself the crowning offshoot of simpler forms ; but the evidence of pathologic origins is rarely attainable, as species of disease are merely passing and necessarily fleeting states of the human organism. They do not offer the same unity of form as an animal or a plant; and are in every way less sharply defined. Yet the new species are generated by the same law; they are at first as varieties confounded with old types, and are only recognized as distinct species when they have existed for some time; so it is impossible to fix on the precise point of origin. Diphtheria is an example. It obtains a distinct line in the Tables of this year for the first time. Yet many indications of the previous appearances of a disease of the kind are found in medical history. Nay, epidemics of diphtheria are clearly described in the seventeenth century by Italian and Spanish writers. Some obscurity, however, hung round its history; and in Fothergill's account, which Sprengel properly designates classical, the symptoms are confused by the introduction of the eruption of scarlatina into his description. With that disease, with quinsy, and with other phlegmonous affections of the throat, as well as with croup, diphtheria, which is a better name than angina membranacea, was often confounded; and its frequent association with scarlatina in epidemics, justifies the inference that the diphtherine, its materies morbi, is some modification of scarlatinine.

It is evident from the annexed Table that diphtheria was confounded down to 1858 with cynanche, and to get an approximation to the actual deaths from the epidemic, the two forms must be put together. And when this is done the rapid and regular progress of the great epidemic becomes evident, In 1859 diphtheria (including cynanche) was fatal to 10,184; scarlatina to 19,310 persons. Both diphtheria and scarlatina attack young children; but the relative fatality of the two diseases

TABLE (1) - DEATHS	in	ENGLAND AN	DW.	ALES	from	SCARLATINA.	CYNANCHE	
Maligna, an	d	DIPHTHERIA, for	each	of the	Years	1855 to 1859.		

YEA	ARS.	-	Total.	Scarlatina.	Cynanche Maligna, and Diphtheria.*	Cynanche Maligna.	Diphtheria.
1855	-	-	17,314	16,929	385	199	186
1856	-	-	14,160	13,557	603	874	229
1857	-	-	14,229	12,646	1,583	1,273	810
1858	-	-	80,317	23,711	6,606	1,770	4,836
1859	6-1	1-1	29,494	19,310	10,184	597	9,587
Tota	ul -	-	105,514	86,153	19.361	4,213	15,148

* Co'umn 4 is the total of Columns 5 and 6.

differs at different ages. Scarlatina as a general rule does not recur. But the law of recurrence for diphtheria has to be discovered, and the extent to which it interferes with other diseases.

The fertility of nature in the production of new diseases, is only a proof of the necessity of perpetual vigilance in observing and combating them to the utmost of our ability at their sources; for in its zymotic diseases the solidarity of the human race is unquestionable.

TABLE (2) — ENGLAND AND WALES. DEATHS and AVERAGE ANNUAL RATE of MORTALITY from DIPHTHERIA with CYNANCHE MALIGNA, and from SCARLATINA, during the Five Years 1855-59.

	bita series (Deaths in 1 1855-5	Five Years, 9, from	Average Annu 100,000 pers	al Deaths to ons living.
	AGES.	Diphtheria and Cynanche Maligna.	Scarlatina.	Diphtheria and Cynanche Maligna.	Scarlatina.
	All ages	19,361	86,153	20	90
palenseq Maxima may lo	Under 1 year - 1 2 3 4	1.639 2,115 2,060 2,062 1,966	" 5,709 12,318 13,935 13,240 10,327	62 82 82 84 82	215 477 554 540 432
nut em	Under 5 years - 5	9,842 5,419	55,529 22,291	78 48	441 199
diseoq	10	2,083 1,036	5,019 2,117	20 6	49 12
16 1.2	25 35	894 239	653 315	3 2	4+
and out	45	147 109	138 54	2 2	2
ing the or	65	67 19	27 10	22	1 al
incertant	85 — 95 and upwards	6 -	n antiat a Marginta an	4 -	

NOTE.—In calculating the rate of Mortality in the above Table the population in the middle of the Five Years 1855-59 (1857) has been obtained on the assumption that the annual rate of increase of population was uniform between 1851 and 1861, and at the same rate at all ages.

TABLE (3)—DEATHS in ENGLAND and WALES from DIPHTHERIA and CYNANCHE MALIGNA, in each of the five Years 1855-59.

YEARS.	ALL AGES.	Under 1 Year.	1	2	3	4	Under 5 Years.	5-	10-	15-	25-	35-	45-	55-	65-	75-	85 -	95 and upwds.
1855 -	385	56	52	47	45	33	233	84	17	20	8	7	8	7	1		1	
1856 -	603	44	62	81	54	57	298	175	65	33	8	11	6	4	3	13-0	-	1
1857 -	1583	109	138	137	152	160	696	512	224	86	31	19	8	6	-	1	-	-
1858 -	6606	552	741	692	695	635	3315	1897	686	361	134	80	56	42	26	7	2	
1859 -	10184	878	1122	1103	1116	1081	5300	2751	1091	536	213	122	69	50	37	11	4	-
Total -	19361	1639	2115	2060	2062	1966	9842	5419	2083	1036	394	239	147	109	67	19	6	-

TABLE (4)—DEATHS in ENGLAND and WALES from SCARLATINA, in each of the five Years 1855-59."

YEARS.	ALL AGES.	Under 1 Year.	1	2	3	4	Under 5 Years.	5-	10-	15-	25-	35-	45-	55—	65-	75-	85-	95 and upwds.
1855 -	16929	1131	2306	2700	2537	1957	10631	4523	1078	438	128	71	36	15	8	1	-	-
1856 -	13557	985	1930	2161	2085	1669	8830	3419	800	332	88	55	20	10	3	-	-	-
1857 -	12646	855	1790	2032	1988	1462	8127	3252	766	321	104	40	23	7	3	3	12-	-
1858 -	23711	1444	3468	3980	3638	2860	15390	6160	1325	557	159	69	33	10	6	2		_
1859 -	19310	129 4	2824	3062	2992	2379	12551	4937	1050	469	174	80	26	12	7	4	-	-
Total -	86153	5709	12318	13935	13240	10327	55529	22291	5019	2117	653	315	138	54	27	10	-	

The discrimination of diseases at one time confounded, leads necessarily to the recognition of new types, and to new names. Thus under dropsy, diseases of the heart and kidneys were masked; and heart diseases of various kinds, as well as nephria, are recognized as the seat and origin of diseases which were called simply dropsy in former times. The rise of the specified deaths by nephria (Bright's disease), from 430 in 1850 to 1258 in 1859, is due to recent medical discoveries; some of the cases which were then classed under dropsy are now distinguished. The increase of deaths by cancer and heart disease is due to similar causes. Ideas have changed, but this must not be confounded with any corresponding change of natural phenomena. Nature changes, but our ideas of her processes change still more frequently. An alteration of nomenclature will necessarily occur with every new interpretation of nature; so it should be kept within strict limits, and be borne perpetually in mind by the student in comparing the morbid phenomena of distant ages and localities.

The meteorology of the year, and the prices of provisions in their bearing on public health, have been already discussed in your Report. But I submit below a supplementary Table of prices, to illustrate the decimal system of money.

In all statistical calculations of a scientific character, the decimal system is employed; as it would be impossible on the system of 4 farthings to a penny, 12*d*. to a shilling, 20*s*. to 1*l*., to perform the various calculations, giving the value of annuities, the premiums of life insurance, and other results, in any moderate time. Additional clerks would have to he employed; and much time would be wasted. The same waste of time occurs in the ordinary system of accounts; it is therefore desirable to familiarize people with the units decimally related, which suffice for the expression of all prices and values. These units are three. (1.) The 1*l*. sterling, which requires no explanation; (2,) the *florin* or two-shilling piece, of which *ten* make 1*l*.; and (3.) the *mil*, of which 100 make *a florin*. The mil differs but slightly from a farthing; for 25 *mils* and 24 farthings

	al free	Average P	rices of	Average	e Price of Wh	eat per Quar of England	ter in the Mar d.	ket Towns
	At Leadenhall and Newgate Markets. Beef. Mutton. d. d. s.		Potatoes (York Regents) per Ton at	Year.	Q	uarters endir	ig the last Da	7 of
1			Waterside Market, Southwark.		March.	June.	September.	December
1852 - 1853 - 1854 - 1855 - 1856 - 1857 - 1858 - 1859 -	d. 4 ¹ / ₈ 4 ⁷ / ₈ 5 ¹ / ₉ 5 ⁵ / ₉	478 578 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	91 0 130 6 119 0 100 6 85 6 120 8 120 0 94 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} s. \ d. \\ 40 \ 10 \\ 45 \ 7 \\ 79 \ 6 \\ 69 \ 11 \\ 72 \ 4 \\ 56 \ 10 \\ 46 \ 5 \\ 40 \ 8 \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	s. d. 41 2 51 10 63 10 76 1 72 3 59 11 44 7 44 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1852 - 1853 - 1854 - 1855 - 1856 - 1857 - 1858 - 1858 - 1859 -	Mils. 17 20 23 23 22 22 22 22 22 23	(Pric Mils. 20 24 24 24 24 24 24 23 24	Es in Florin Flor. mils. 45 50 65 25 59 50 50 25 42 75 60 33 60 00 47 00	s and Mils, Flor. mils. 20 42 26 46 36 21 37 33 34 58 28 21 22 13 21 92	on the Dec Flor, mils, 20 42 22 79 39 75 34 96 36 17 28 42 23 21 20 33	Flor. mils. 20 42 22 25 39 17 36 67 34 33 28 38 22 04 23 04 23 66	n). Flor. mils. 20 58 25 92 81 92 88 4 36 13 29 96 22 29	Flor. mils, 20 21 34 92 34 0 39 67 31 67 26 0 20 88

TABLE (5)-PRICE of WHEAT, MEAT, and POTATOES in the Years 1852 to 1859.

are of the same value as 6d.: and no further change would be required in our coinage than by a simple legislative enactment, to make after a certain date the halfpenny 2 mils, the penny 4 mils, and 25 halfpence change for a shilling, 25 pence change for a florin.

The decimal system, it will be observed, expresses the prices of the common articles of food intelligibly; thus mutton was 24 mils (farthings, nearly) per lb., potatoes 47 florins a ton, and wheat 21 florins 92 mils per quarter, in 1859.

CLASSIFIED CAUSES OF DEATH.

The causes of death were declared in 432,476 instances; in 2821 cases death was sudden but was not ascertained, and of the causes of 5484 deaths no information was supplied.

I. ZYMOTIC DISEASES.

106,645 deaths were referred to this class of causes, which were fatal to 5 in 1000 of the population, and produced one fourth of the total deaths. *Small-pox* destroyed 3848 people, chiefly children, who had not been vaccinated. It is an instance of the rigor with which the infringement of sanitary laws is visited; for the children perish, and the parents lose their offspring, by the neglect of a precaution of the simplest kind. 19,907, children chiefly, died of scarlatina; 9587 of diphtheria. In the previous year 30,317 deaths are referred to the head of scarlating; but they included 4836 deaths stated to be by diphtheria, and 1770 deaths declared to be by cynanche maligna or by some of the indefinite forms of sore throat.

The progress of these three forms of disease, of quinsy and of croup, is shown in the Tables.

Whooping-cough was fatal in 8976 cases. The fever which was fatal in 15,877 cases, includes the three forms of continued fever : typhus generated and diffusible by the exhalations of people living in crowds ; typhoid fever (typhia) diffused apparently by the faces of the sick, and relapsing fever (typhinia), all of which have been so well defined by Dr. Jenner. The diffusion of medical knowledge will render their analysis in the national tables practicable. Erysipelas is still of frequent occurrence; in a recent outbreak at the Winchester Infirmary, its fatal effects were traceable to a cesspool. Metria (puerperal fever) an allied disease, was unusually fatal; the deaths of 1238 women were caused by that disease; and 2258 by the other diseases incidental to child-bearing; which will be referred to subsequently. Carbuncle is less prevalent and fatal than it was; and happily influenza has not prevailed epidemically. Dysentery was fatal to 1379 persons; diarrhœa to 18,331, cholera to 887. Cholera and more particularly diarrhea were more fatal than they were in the previous year. This is partly accounted for by the high temperature of the summer quarter, acting on the impurities of the air and water. The temperature was 3.3° above the average of the season. Ague was more, remittent fever less than usually prevalent; to rheumatism 2124 deaths were referred.

Syphilis is every year increasing in frequency; it is congenital. There can be no doubt that parents who have suffered from secondary syphilis often transmit the seeds of disease and death to their offspring.

Hydrophobia is happily much less fatal than it was in former years; 4 persons died of the disease. In the last four years 14 persons died of hydrophobia; whereas 56 persons died of the same disease in the four years ending in 1855. Of glanders 3 persons died.

Passing to another order of facts, diseases directly referrible to defective nutrition, it will be seen in the Table that 52 deaths are said to have resulted from privation, 1017 from the want of breastmilk, 342 from purpura or scurry. The feeding of children, whose mothers do not supply them with milk, is undoubtedly defective, and deserves the attention which it is now attracting from enlightened philanthropists.

Causes of Death in 1859.

We have but an imperfect conception of the number of deaths from excessive drinking; but 545 deaths were directly ascribed to delirium tremens, and 345 to intemperance. The deaths in the year from the two forms of alcoholism were 890; exceeding by 178 the deaths, 712, in the previous year. The high temperature probably increases thirst, and at the same time renders the action of alcoholic liquors more dangerous. For delirium tremens is much more fatal in the hot than in the cold months of the year. Thus in the twenty years, 1840-59, while the deaths ascribed to intemperance were equally distributed, the 2,546 deaths by delirium tremens were distributed over the four quarters unequally: 563, 655, 725, 603; the smallest number occurring in winter (563), the greatest in summer, giving 1,166 in the cold, 1,380 in the hot half of the year. During the last three years, 1858-60, we have this result : in the cold months from October to March, the deaths of 140 persons by delirium tremens were registered in London; in the hot months, from April to September, the deaths by the same disease were 204. The effect of the alcohol and the heat in producing delirium tremens is greatest at the age from 40 to 60; but it is also apparent at the earlier age of 20-40.

of the strength of	and the second se	10.00	and the second with	and a straight of the	Contraction.	-22 Car 1 4			
	1858-60.	100 miles	Deaths	ascril	ed to in Lor	Deliriu Idon.	m Tre	mens	ni naga
5310 1 14.5 3	Seasons.	1	ALL AGES.	0-	20-	40-	60-	80-	CARGE AND
	ALL SEASONS	-	344	1	149	170	23	2	10-10-22
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan., Feb. March April, May, June July, Aug., Sept. Oct., Nov., Dec.	-	71 101 103 69		26 48 41 34	39 49 54 28	5 4 7 7	1 - 1	atomes Catomes
	Cold Season. Jan., Feb., March Oct., Nov., Dec.	5}	140	2 22	60	67	12	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
बस,स्थ	Hot Season. April, May, June July, Aug., Sept.	1}	204		-89	103	11	1	College In

In the tropics, the combined action of spirits and sun-heat often apparently produce what is called sunstroke or apoplexy.

Of the parasitic diseases thrush is the most fatal; and a great majority of the deaths were of infants under one year of age. The ova of worms must be derived generally from impure river waters into which the refuse of towns is poured; and although they do not frequently prove fatal, they are troublesome and nauseous, and often the cause of disturbance in the system. Scabies, and other skin diseases attended with parasites, require constant attention.

II. CONSTITUTIONAL DISEASES.

Constitutional diseases killed 81,788 persons, chiefly in the middle and advanced periods of life; 16,433 of diathetic, 65,355 of tuberculous diseases.

Gout is nearly stationary. Thanks to the more intelligent system of dining which the wealthier classes, wearied of this racking disease, will probably introduce, we may hope to see it rapidly decline. Dropsy and cancer exhibit changes which have been already ascribed to the progress of medical diagnosis.

Tuberculous diseases, including phthisis or consumption, the most fatal of all, increased from the year 1850 to 1853, and since that year have again decreased, and most decidedly if we take the increase of population into account. More than 3 in 1000 of the population died of these diseases, which caused 15 out of every 100 deaths. Phthisis was the cause of 12 out of the 15 deaths.

III. LOCAL DISEASES.

These are chiefly inflammations, and the resulting changes of the principal organs of the body; they prevailed widely, and were fatal to 159,686 persons. The brain with its appendages, the heart and the respi-ratory system, are the vital organs of man; accordingly we find 54,531, 17,133, and 59,853 deaths referred to affections of the three systems. Of

TABLE (6).—CAUSES OF	DEATH	registered in	ENGLAND	in	each	of	the	Ten	Years	
and the second of the second s		1850-185	9.				-			

-	A CONTRACTOR	-		-				Arrest Contract		12.17	-
Class.	CAUSES OF DEATH.	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859
	ALL CAUSES	368,995	395,396	407,135	421,097	437,905	425,703	390,506	419,815	449,656	440,781
		356,571	383,841	395,401	408,805	426,919	414,228	380,667	410,217	440,922	432,476
	SPECIFIED CAUSES -										
	(CLASSES.)							01.101	00 170	110.071	100.045
I.	ZYMOTIC DISEASES -	78,280	90,002	96,107	89,448	117,018	88,152	81,121 79,500	93,518	110,971 82,416	106,645 81,788
II.	CONSTITUTIONAL "-	77,110	80,804 135,680	83,035 136,585	88,216 148,307	83,993 144,872	84,645 158,176	143,966	152,249	163,489	159,686
III. IV.	LOCAL " – DEVELOPMENTAL " –	61,221	64,696	66,154	69,105	66,996	69,190	62,178	68,629	69,895	69,708
ν. V.	VIOLENT DEATHS -	13,128	12,659	13,520	13,729	14,040	14,065	13,902	13,852	14,151	14,649
				State and stores				and the second	1		
	(ORDERS.)	54 500	00.000	92,305	85,515	112,612	83,737	77,278	89,299	106,278	101,699
I.	1. MIASMATIC DISEASES -	74,732	86,309 867	92,505	874	1,236	1,179	1,061	1,144	1,195	1,273
(and a second	2. ENTHETIC ,, - 3. DIETIC ,, -	1,660	1,651	1,676	1,857	1,980	2,087	1,688	1,905	2,112	2,301
	4. PARASITIC " -	1,114	1,175	1,237	1,202	1,190	1,149	1,094	1,170	1,386	1,372
1.1.1				10070	75.007	10.040	17 105	14 000	16,207	16,790	16,433
II.	1. DIATHETIC " -	16,715	16,729	16,872 66,163	17,601 70,615	16,848 67,145	17,125 67,520	15,668 63,832	65,762	65,626	65,355
	2. TUBERCULAR ,, -	60,395	64,075	00,103	10,615	07,140	01,020	00,002			
III.	1. DISEASES OF NERVOUS SYSTEM	46,907	49,351	50,246	51,509	51,485	52,365	50,084	51,619	53,961	54,531
	2. ", ORGANS OF CIRCULATION -	11,356	11,817	12,517	13,740	13,488	14,552	13,672	14,784	16,426	17,133
	3. " RESPIRATORY ORGANS – –	43,827	48,759	47,400	56,436	52,484	63,742	52,908	58,320	65,516	59,853
	4. " DIGESTIVE ORGANS – –	17,846	18,562	19,031	18,865	19,002	18,746	18,617	19,153	19,246	19,842
	5. ", URINARY OR- GANS	3,124	3,172	3,438	3,652	3,770	3,978	4,150	4,129	4,683	4,736
.	6. " ORGANS OF GENERATION -	921	958	877	960	1,014	1,042	1,039	1,069	1,148	1,199
	7. " ORGANS OF LOCOMOTION -	1,008	1,092	1,139	1,227	1,500	1,428	1,329	1,306	1,164	1,285
	8. " INTEGUMEN- TARY SYSTEM -	1,843	1,969	1,937	1,918	2,129	2,323	2,167	1,869	1,345	1,107
· IV.	DEVELOPMENTAL DISEASES OF CHILDREN	22,918	24,137	24,349	24,509	23,993	22,791	22,657	24,171	12,412	12,300
	2. " ADULTS -	2,266	2,368	2,373	2,383	2,125	1,961	1,878	2,003	2,114	2,314
	3. " OLD PEOPLE	25,567	25,980	26,376	29,130	26,466	29,714	23,931	26,847	28,509	27,104
	4. DISEASES OF NUTRITION	10,470	12,211	13,056	13,083	14,412	14,724	13,712	15,608	26,860	27,990
v.	1. ACCIDENT OR NEGLI-		*	*	*	*	*	*	*	12,523	13,056
	GENCE	*	*	•*	*	*	*	*	*	†	†
	3. HOMICIDE	-	*	*	*	*	*	*	*	344	338
	4. SUICIDE	*	*	*	*	*	*	*	*	1,275	1,248
	5. EXECUTION	1.1.1 + 2	*	*	*	*		*	*	9	7
i esti	VIOLENT DEATHS NOT CLASSED	13,128	12,659	13,520	13,729	14,040	14,065	13,902	13,852	*	*
	SUDDEN DEATHS, CAUSE UNASCERTAINED	3,560	3,458	3,591	4,018	3,993	4,139	3,474	3,403	3,096	2,821
	CAUSES NOT SPECIFIED -	8,864	8,097	8,143	8,274	6,993	7,336	6,365	6,195	5,638	5,484
1768	0-2-2	1912		Part Shi			and the second	A CONTRACTOR			
J.	ORDER 1. 1 Small-pox	4,665	6,997	7,320	3,151	2,808	2,525		3,936		3,848
	2 Measles	7,082 13,371	9,370 13,634	5,846 18,887	4,895 15,699	9,277 18,528	7,354	14,160	14,229	30,317	9,548 19,907
	4 Diphtheria	473	1	10,001 ‡ 391	‡ 421	‡ 345		the same is send of the same	485	‡ 623	9,587
	5 Quinsy	4,322	369 4,180	4,058	3,660	3,998	4,419	5,207	5,279	6,220	5,636
	7 Whooping-cough 8 Typhus	7,770	7,905	8,022	11,200 18,554	9,770					
	o riphus		1			1	Carlo and	A to the	1	1 10 16 2	1.2

Ph

† Order 2, comprising Violent Deaths in Battle, is omitted, as inapplicable to the civil population.
‡ The cases of angina membranacea which would now be put to diphtheria were formerly classed under the same head

as scarlatina, but were distinguished in the notes.

convulsions 25,954, chiefly children under one year of age, died. This symptom is striking and distressing, and unmistakeable; but it is probably only part of the disease, which is the result of organic lesions, and local irritations that are never discovered. The irritation of teething, and the irritation arising from improper food, often give rise to convulsions in children. Conhalities is most fatal in early life: enilepsy supervenes early. children. Cephalitis is most fatal in early life; epilepsy supervenes early, but it attains the highest degree of intensity in manhood; insanity follows; apoplexy and paralysis prove fatal at still more advanced ages. The

	TABLE (6).—CAUSES O	F DEAT	гн reg 1850—	istered 1859—	in En -contin	NGLANI ued.) in ea	ich of	the T	en Yea	ars
Class	CAUSES OF DEATH.	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859
	9 Erysipelas – – – 10 Metria – – – – 11 Carbuncle – – – 12 Influenza – – 13 Dysentery – – 14 Diarrhea – – – 15 Cholera – – – 16 Ague – – – 17 Remittent Feyer – – 18 Rheumatism – –	134 1,380 2,036 11,468 887	$\begin{array}{c} 1,998\\ 1,009\\ 161\\ 2,152\\ 2,185\\ 14,728\\ 1,132\\ 167\\ 607\\ 1,785\end{array}$	2,075 972 233 1,359 2,756 17,617 1,381 151 666 1,930	$\begin{array}{c c} 1,813\\792\\252\\1,789\\1,891\\14,192\\4,419\\183\\709\\1,895\end{array}$	954 300	$\begin{array}{r} 2,256\\ 1,079\\ 255\\ 3,568\\ 1,437\\ 12,770\\ 887\\ 149\\ 575\\ 2,170\\ \end{array}$	$\begin{array}{r} 2,183\\ 1,067\\ 253\\ 1,029\\ 1,335\\ 13,815\\ 762\\ 124\\ 162\\ 2,007\\ \end{array}$	1,576 836 252 1,393 1,698 21,189 1,150 195 270 1,688	2,026 1,068 246 1,794 1,478 13,853 673 207 569 1,942	1,954 1,238 236 1,112 1,379 18,331 887 233 400 2,124
	ORDER 2. 1 Syphilis 2 Stricture of Urethra - 3 Hydrophobia 4 Glanders	554 207 13	598 244 25	623 251 15 Heretofo	622 241 11 ore classe	964 256 16 d with 1	947 218 14 Erysipela	879 177 5	957 184 3	1,006 186 2 1	1,089 177 4 3
	ORDER 3. 1 Privation – – 2 Want of Breast-milk – 3 Purpura and Seuryy – 4 Alcoholism { aDel.Trem b Intemp.	$\begin{array}{r} 73 \\ 458 \\ 266 \\ 540 \\ 323 \end{array}$	58 553 248 503 289	54 593 234 487 308	78 632 266 508 373	87 742 282 551 318	91 850 324 536 286	69 704 227 451 237	52 829 246 484 294	62 997 341 424 288	52 1,017 342 545 345
	ORDER 4. 1 Thrush 2 Worms, &c	1,114	1,175 Here	1,237 etofore c	1,202 lassed w	1,190 ith <i>Disea</i>	1,149 se of Stor	1,094 mach.	1,170	1,236 150	1,217 155
П ,	ORDER I. 1 Gout 2 Dropsy 3 Cancer 4 Noma 5 Mortification	224 9,980 4,967 123 1,421	214 9,878 5,218 95 1,329	218 9,788 5,477 98 1,291	217 10,302 5,663 100 1,319	246 9,396 5,826 136 1,244	287 9,362 6,016 178 1,282	260 8,213 5,859 164 1,172	223 8,452 6,201 198 1,133	245 8,758 6,433 161 1,193	238 8,119 6,67 6 159 1,241
·	ORDER 2. 1 Scrofula 2 Tabes Mesenterica 3 Phthisis 4 Hydrocephalus	2,484 4,012 46,618 7,281	2,592 4,510 49,166 7,807	2,580 4,700 50,594 8,289	2,727 4,965 54,918 8,005	2,613 5,638 51,284 7,610	2,985 4,762 52,290 7,483	2,831 4,752 48,950 7,299	2,781 5,380 50,106 7,495	3,004 5,017 50,442 7,163	2,995 4,98 2 50,149 7,229
III.	ORDER 1. 1 Cephalitis 2 Apoplexy 3 Paralysis 4 Insanity 5 Chorea 6 Epilepsy 7 Convulsions 8 Brain Disease, & c	$\begin{array}{r} 3,198\\ 8,094\\ 7,317\\ 529\\ 60\\ 1,631\\ 23,000\\ 3,078\\ \end{array}$	3,628 7,946 7,587 542 77 1,760 24,592 3,219	3,686 7,896 7,911 535 73 1,935 24,558 3,652	3,618 8,496 8,378 472 67 2,120 24,798 3,560	3,752 8,366 8,353 541 48 2,052 24,579 3,794	3,466 8,645 8,905 494 69 2,136 24,917 3,733	3,414 8,278 8,497 370 59 2,096 23,946 3,424	3,392 8,378 8,714 403 44 2,193 24,532 3,963	3,463 8,629 8,980 535 53 2,359 25,488 4,454	3,451 8,631 9,189 446 55 2,219 25,954 4,586
	ORDER 2. 1 Pericarditis – – – 2 Aneurism – – – 3 Heart Disease, &c. – –	620 286 10,450	563 289 10,965	589 266 11,662	561 315 12,864	594 308 12,586	588 312 13,652	531 338 12,803	573 326 13,885	586 350 15,490	616 371 16,146
	ORDER 3. 1 Laryngitis 2 Bronchitis 3 Pleurisy 4 Pneumonia 5 Asthma 6 Lung Disease, &c	$1,053 \\ 14,611 \\ 877 \\ 20,303 \\ 4,574 \\ 2,409$	$\begin{array}{r} 939\\ 17,294\\ 984\\ 22,001\\ 4,896\\ 2,645\end{array}$	1,083 17,073 945 21,421 4,309 2,569	$1,097 \\ 22,391 \\ 855 \\ 24,098 \\ 5,143 \\ 2,852$	$1,145 \\ 20,062 \\ 955 \\ 23,523 \\ 4,271 \\ 2,528$	1,15527,1821,15326,052 $5,4542,746$	$1,294 \\21,528 \\886 \\22,653 \\4,103 \\2,444$	1,359 25,588 870 23,457 4,339 2,707	1,439 29,093 846 26,486 4,513 3,139	1,319 25,998 916 24,514 4,224 2,882
	ORDER 4. 1 Gastritis 2 Enteritis 3 Peritonitis 4 Ascites 5 Ulceration of Intestines - 6 Hernia 7 Ileus 9 Stricture of Intestines - 10 Fistula 11 Stomach Disease, §c 12 Panacreas Disease, §c 13 Hepatitis 14 Jaundice 15 Liver Disease, §c 16 Spleen Disease, §c	$519 \\ 3,733 \\ 1,248 \\ 664 \\ 791 \\ 704 \\ 1,149 \\ 222 \\ 92 \\ 2,247 \\ 17 \\ 1,436 \\ 1,166 \\ 3,553 \\ 57 \\ \end{array}$	721 3,854 1,250 684 856 708 1,107 268 240 121 121 2,235 8 1,453 1,282 3,709 66	$\begin{array}{c} 685\\ 3,901\\ 1,304\\ 698\\ 976\\ 683\\ 250\\ 291\\ 94\\ 2,159\\ 94\\ 2,159\\ 5\\ 5\\ 1,594\\ 1,281\\ 3,948\\ 74 \end{array}$	$\begin{array}{c} 676\\ 3,659\\ 1,269\\ 753\\ 1,022\\ 779\\ 1,147\\ 244\\ 244\\ 244\\ 2000\\ 9\\ 1,04\\ 2,000\\ 9\\ 1,520\\ 1,239\\ 4,139\\ 64 \end{array}$	$\begin{array}{c} 755\\ 3,614\\ 1,432\\ 748\\ 911\\ 828\\ 1,224\\ 258\\ 257\\ 117\\ 2,018\\ 13\\ 1,500\\ 1,264\\ 3,992\\ 71\end{array}$	$\begin{array}{c} 810\\ 3,225\\ 1,388\\ 836\\ 876\\ 877\\ 41,188\\ 243\\ 233\\ 86\\ 2,362\\ 5\\ 5\\ 1,446\\ 1,300\\ 3,820\\ 54 \end{array}$	$\begin{array}{c} 816\\ 3,234\\ 1,310\\ 760\\ 946\\ 848\\ 1,190\\ 280\\ 242\\ 73\\ 2,357\\ 12\\ 2,357\\ 12\\ 1,446\\ 3,615\\ 51\\ \end{array}$	$\begin{array}{c} 816\\ 3,412\\ 1,411\\ 750\\ 893\\ 893\\ 254\\ 278\\ 278\\ 98\\ 2,438\\ 15\\ 1,444\\ 1,443\\ 3,881\\ 73\end{array}$	789 3,309 1,466 665 860 766 766 1,107 239 264 116 2,750 11 1,353 1,203 4,285 63	827 3,416 1,555 766 776 762 1,139 271 289 99 2,698 22 1,488 1,255 4,417 62

statistics of the insane require to be specially studied, as where they die of consumption, or of other diseases, the deaths are returned under those heads. The numbers in the Table do not represent the persons dying in a state of insanity, but the number of deaths of the insane referable to no other cause than insanity.

TABLE (6).—CAUSES OF DEATH registered in England in each of the Ten Years 1850—1859—continued.

	and the family with the	alasia terretari	1850—	1039-	contine	icu.	C. All C. S. Law mines			2	a na antiniza
Class.	CAUSES OF DEATH.	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859
	ORDER 5. 1 Nephritis - - 2 Ischuria - - 3 Nephria - - 4 Diabetes - - 5 Stone - - 6 Cystitis - - 7 Kidney Disease, & . - -	178 91 430 422 249 214 1,540	183 100 477 403 204 212 1,593	197 106 570 402 208 231 1,724	237 109 641 412 224 236 1,793	205 118 776 436 183 276 1,776	244 120 793 448 234 278 1,861	269 83 954 433 233 270 1,908	268 97 983 482 182 258 1,859	265 118 1,105 514 199 256 2,226	284 103 1,258 480 191 276 2,144
	ORDER. 6. 1 Ovarian Dropsy – – 2 Uterus, &c. Disease –	219 702	196 762	178 699	217 743	220 794	208 834	211 828	237 832	239 909	277 922
	ORDER 7. 1 Arthritis – – – 2 Joint Disease, §c. – –	54 954	72 1,020	84 1,055	81 1,146	101 1,399	80 1,348	71 1,258	62 1,244	77. 1,087	81 1,204
1740 1740	ORDER 8. 1 Phlegmon 2 Ulcer 3 Skin Disease, &c	1,334 340 169	1,454 317 198	1,409 296 232	1,362 351 205	1,513 358 258	1,780 278 265	1,585 289 293	1,239 300 330	711 332 302	466 364 277
IV.	ORDER 1. 1 Premature Birth – – 2 Cyanosis – – – 3 Spina Bifida – – – 4 Other Malformations – 5 Teething – – –	18,051 167 212 402 4,086	18,943 230 210 346 4,408	19,075 279 242 340 4,413	18,968 295 279 291 4,676	18,680 294 243 407 4,369	17,818 300 247 369 4,057	17,997 341 299 360 3,660	19,144 350 325 360 3,992	7,307 386 313 385 4,021	7,432 403 356 379 3,730
	ORDER 2. 1 Paramenia – – – 2 Childbirth (see Metria) –	127 2,139	87 2,281	98 2,275	115 2,268	70 2,055	61 1,900	57 1,821	52 1,951	51 2,063	56 2,258
	ORDER 3. 1 Old Age	25,567	25,980	26,376	29,130	26,466	29,714	23,931	26,847	28,509	27,104
1. Alt	ORDER 4. 1 Atrophy and Debility †	10,470	12,211	13,056	13,083	14,412	14,724	13,712	15,608	26,860	27,990
*	ORDER 1. (ACCIDENT OF NEGLIGENCE.) 1 Fractures and Contusions 2 Gunshot 3 Cut, Stab 4 Burns and Scalds 5 Poison 6 Drowning 7 Suffocation 8 Otherwise	****	******	*** * * * *	* * * * * * *	****	****	* * * * * *	****	5,159 136 80 3,125 282 2,124 903 714	5,482 104 75 2,978 279 2,494 952 692
STATES OF	ORDER 3. (HOMICIDE.) 1 Murder and Manslaughter	* In t	his part o	of the Ta	ble, whi	ch comp	rises Dea	ths in 1	850-57,	344	338
istin ata	ORDER 4. (SUICIDE.)		Violent I but are j					t line folle	owing.	and	
MARTES OF	1 Gunshot Wounds 2 Cut, Stab 8 Poison 4 Drowning 5 Hanging 6 Otherwise	* * *	***	* * * * *	***	* * * *	* * *	*****	* * *	60 243 119 197 570 86	54 270 112 208 540 64
and descent	ORDEE 5. (EXECUTION.) 1 Hanging	*	*			***		*	*	9	7
	Violent Deaths (not classed)	13,128	12,659	13,5 2 0	13,729	14,040	14,065	18,902	13,852		
	Sudden Deaths (Cause un- ascertained)	3,560	3,458	3,591	4,018	3,993	4,139	3,474	3,403	3,096	2,821
	Cause not specified or ill- defined	8,864	8,097	8,143	8,274	6,993	7,336	6,365	6,195	5,638	5,484

† Up to the year 1857 cases of so called "debility" and "premature birth" were classed together; when the new classification was introduced "premature birth" was kept apart, and "debility" and "atrophy" were thrown into one line. This accounts for the changes in the table numbers.

Causes of Death in 1859.

Fright was returned as the cause of seven, grief of eight, rage of five, anxiety of one, mental shock of one, melancholy of forty-seven deaths. The ages are distinguished in the Supplemental Table, where will also be

	The contains of the	fluti	CAUSI	of	Causes, and from	each	Cause.	l NW	mbers dying from	each	Class
	Ro a novem		859		all gener that he	1	.859	a series	Alexand Sale	1	.859
Class.	CAUSES OF DEATH.	Deaths to 1,000,000 Persons living.	Proportional Num- ber in 1,000,000 Deaths.	Class.	CAUSES OF DEATH	Deaths to 1,000,000 Persons living.	Proportional Num- ber in 1,000,000 Deaths.	Class.	CAUSES OF DEATH.	Deaths to 1,000,000 Persons living.	Proportional Num- ber in 1,000,000 Deaths.
I. Z II. (III. 1 IV. 1	ALL CAUSES (CLASSES.) ZYMOTIC DISEASES CONSTITUTIONAL ,, LOCAL ,, DEVELOPMENTAL ,		1,000,000 244,993 187,890 366,843 160,141		12 Influenza 13 Dysentery 14 Diarrhœa 15 Cholera 16 Ague 17 Remittent Fever - 18 Rheumatism ORDER 2, 1 Synbilis	$57 \\ 71 \\ 940 \\ 45 \\ 12 \\ 21 \\ 109 \\ 56$	2,555 3,168 42,111 2,038 535 919 4,879 2,502		ORDER 5. 1 Nephritis 2 Ischuria 3 Nephria 4 Diabetes 5 Stone 6 Cystitis 7 Kidney Disease, §c	$ \begin{array}{r} 15 \\ 5 \\ 65 \\ 25 \\ 10 \\ 14 \\ 109 \\ \end{array} $	652 237 2,890 1,103 439 634 4,925
	(ORDERS.)	751	33,652		2 Stricture of Urethra 3 Hydrophobia 4 Glanders	9 •2 •2	407 9 7		ORDER 6. 1 Ovarian Dropsy – 2 Uterus, &c. Disease – ORDER 7.	14 47	636 2,118
23	. MIASMATIC DISEASES 3. ENTHETIC ,, - 3. DIETIC ,, -	5,215 65 119	283,630 2,925 5,286		ORDER 3. 1 Privation 2 Want of Breast-milk 3 Purputa and Scarvy	3 52 18	119 2,336 786		1 Arthritis – – – 2 Joint Disease, &c. – ORDER 8.	4 62	186 2,766
II. 1	. PARASITIC " - . DIATHETIC " - . TUBERCULAR " -	70 842 3,352	3,152 37,752 150,138	14.1	4 Alcohol. { aDel.Trem. b Intem ORDER 4. 1 Thrush	28 18 62	1,252 793 2,796	IV.	1 Phlegmon – – – 2 Ulcer – – – – 3 Skin Disease, &c. –	24 19 14	1,071 836 636
1	DISEASES OF 1. NEBVOUS SYSTEM - 2. ORGANS OF CIRCU- LATION	2,796 879	125,274 39,359	п.	2 Worms, &c ORDER 1. 1 Gout 2 Dropsy 3 Cancer	8 12 416 342	356 547 18,652 15,337	-	ORDER 1. 1 Premature Birth - 2 Cyanosis 3 Spina Bifida 4 Other Malformations 5 Teething	382 21 18 19 191	17,073 926 818 871 8,569
1.	Environment A	1,018	137,498 45,583		4 Noma	8 64 154	365 2,851	1 1 1	ORDER 2. 1 Paramenia – – – 2 Childbirth(seeMetria)	3 116	129 5,187
• 6	5. ORGANS OF GENE- BATION 7. ORGANS OF LOCO-	243 61	10,880 2,754	1	2 Tabes Mesenterica – 3 Phthisis – – – 4 Hydrocephalus – –	255	$\begin{array}{r} 6,880\\ 11,445\\ 115,206\\ 16,607\end{array}$		ORDER 3. 1 Old Age + ORDER 4. 1 Atrophy and Debility	1,390	62,267
1	MOTION 5. INTEGUMENTARY SYSTEM	66 57	2,952 2,543	III.	ORDER 1. 1 Cephalitis 2 Apoplexy 3 Paralysis	177 443 471	7,928 19,828 21,110	v.	ORDER 1. (ACCIDENT OR NEGLI-	1,435	64,301
· 2. 3.	-	631 119 1,390 1,435	28,257 5,316 62,267 64,301		4 Insanity 5 Chorea 6 Epilepsy 7 Convulsions - 8 Brain Disease, &c ORDER 2.	$23 \\ 3 \\ 114 \\ 1,330 \\ 235 \\$	$1,025 \\ 126 \\ 5,098 \\ 59,624 \\ 10,535$	1. A. L. A. M. A.	GENCE.) 1 Fractures and Con- tusions 2 Gunshot 3 Cut, Stab 4 Burns and Scalds - 5 Poison 6 Drowing	282 5 4 153/ 14	12,594 239 172 6,841 641
v . 1.	ACCIDENT OB NEG- LIGENCE	670	29,993		1 Pericarditis – – 2 Aneurism – – – 3 Heart Disease, &c. –	32 19 828	1,415 852 37,092		6 Drowning 7 Suffocation 8 Otherwise ORDER 3,	128 49 35	5,729 2,187 1,590
3. 4.	Homicide Suicide Execution	17 64 •4	776 2,867 16	10 1 1 10	ORDER 3. 1 Laryngitis 2 Bronchitis 3 Pleurisy 4 Pneumonia	68 1,332 47 1,257	3,030 59,724 2,104 56,315		(HOMICIDE.) 1 Murder and Man- slaughter	17	776
Su	CHERVIOLENT DEATHS NOT CLASSED UDDEN DEATHS, CAUSE UNASCERTAINED -	145	6,481	1 1 1 1 1	5 Asthma 6 Lung Disease, &c ORDER 4. 1 Gastritis 2 Enteritis	217 148 42 176	9,704 6,621 1,900 7,847		ORDER, 4, (SUICIDE.) 1 Gunshot Wounds 2 Cut, Stab 3 Poison	3 14	124 620
I. 123	ORDER 1. Small-pox Measles Scarlatina	197 490 1,021	8,840 21,934 45,732	(+ + +) + + + + + + + + + + + + + + + +	2 Enternits 4 Ascites 5 Ulceration of Intest. 6 Hernia 7 Ileus	176 80 39 40 39 58	7,847 3,572 1,760 1,783 1,751 2,617	1.6.5	3 Poison 4 Drowning 5 Hanging 6 Otherwise		257 478 1,241 147
5 6 7 8	Diphtheria Quinsy Croup Whooping-cough - Typhus(andInfantile Fever)	492 22 289 460 814	22,024 979 12,947 20,620 36,474		8 Intussusception 9 Stricture of Intest 10 Fistula 11 Stomach Disease, &c. 12 Pancreas Disease, &c. 13 Hepatitis	$ \begin{array}{c} 14\\ 15\\ 5\\ 138\\ 1\\ 76 \end{array} $	623 664 227 6,198 51 3,418		ORDER 5. (EXECUTION.) 1 Hanging Other Violent Deaths	•4	- 16
10	Erysipelas – – – Metria – – – – Carbuncle – – –	100 63 12	4,489 2,844 542		14 Jaundice – – – 15 Liver Disease, &c. – 16 Spleen Disease, &c. –	64 228 3	2,883 10,147 142	1-1	(not classed) - 1+ Sudden Deaths (Cause unascertained)	145	- 6,481

190

193

found besides the deaths from neuralgia and disease of the spinal marrow, those from softening of the brain. 23 deaths are referred to eye diseases; 67 to ear diseases, the ear organs being in almost immediate contact with the membranes of the brain. It is questionable whether the deaths of 34 males and of 20 females are due to idiopathic tetanus; for it is not improbable that the informant neglected to discover or to report the external cause in some instances. Only one death, of a young woman, by catalepsy is recorded.

Heart diseases, and diseases of the large blood vessels destroyed 8508 males, and 8625 females. Of aneurism 268 males, and 103 females died.

The most fatal diseases of the respiratory organs are bronchitis and pneumonia; and these inflammations of the tubes and cells of the lungs, running into each other, are not always accurately distinguished. It is worthy of remark that while the deaths by pneumonia have risen in nine years from 20,303 to 24,514, the deaths from bronchitis rose from

TABLE (8).—ENGLAND.	CAUSES OF DEATH in the Year 1859, arranged in the order	
	of Mortality.	

	STATES IN COLUMN			CALCOLUGE CONTRA	AND DESCRIPTION OF A DE
CAUSES OF DEATH.	Number of Deaths registered in the Year 1859.	Proportional Number from each Cause to 1,000,000 Deaths from All Causes.	CAUSES OF DEATH.	Number of Deaths registered in the Year 1859.	Number from each Cause to 1,000,000
Phthisis	50,149 27,990 27,104	$115,206 \\ 64,301 \\ 62,267$	Suffocation (Accident) Uterus Disease, &c Pleurisy	952 922 916	2,187 2,118 2,104
Bronchitis	25,998	59,724	Cholera	887 827	2,038
Convulsions – – – – Pneumonia – – – –	25,954 24,514	59,624 56,315	Gastritis – – – – – – – – – – – – – – – – – – –	776	1,783
Bronchitis – – – – Convulsions – – – – Pneumonia – – – – Scarlatina – – – – Diarrhœa – – – – Heart Disease – – –	19,907	45,732	Ascites	766	1,760
Diarrhœa – – – – Heart Disease – – –	18,331 16,146	42,111 37,092	Hernia – – – – –	762 -	
Typhus	15,877	36,474	Otherwise (Accident)	692 616	1,590 1,415
	0 505		Pericarditis – – – – – Delirium Tremens – –	545	1,252
Diphtheria	9,587 9,548	22,024 21,934	Delirium Tremens – – Hanging (Suicide) – – Diabetes – – – –	540	1.241
Paralysis	9,189	21,110	Diabetes – – – – – – – – – – – – – – – – – – –	480 466	1,103 1,071
Diphtheria Measles Paralysis Whooping-cough Apoplexy Dropsy	8,976 8,631	20,620 19,828	Panging (Succes) Diabetes Phlegmon Insanity Quinsy Cyanosis	446	1,025
Dropsy	8,119	18,652	Quinsy	426 403	979 926
Premature Birth Hydrocephalus Cancer Croup	7,432 7,229	17,073 16,607	The second s		010
Cancer	6,676	15,337	Remittent Fever Other Malformations	400 379	919 871
Croup	5,636	12,947	Aneurism – – – –	371	852
Fractures and Contusions }	5,482	12,594	Ulcer – – – – – – Spina Bifida – – – – Intemperance – – –	364 356	836 818
(Accident)	4.982	11,445	Intemperance	345	793
Brain Disease	4,586	10,535	Purpura and Scurvy Murder and Manslaughter -	342 338	786
Liver Disease, &c Asthma	4,417 4,224	10,147 9,704	Stricture of Intestines	289	664
Astnma – – – – – – – – – – – – – – – – – – –	3,848	8,840	Nephritis	284	652
Fractures And - <td< td=""><td>3,730 3,496</td><td>8,569 8,031</td><td>Poison (Accident)</td><td>279</td><td>641</td></td<>	3,730 3,496	8,569 8,031	Poison (Accident)	279	641
	3,451	7,928	Ovarian Dropsy Skin Disease, &c	277	636 636
Cephalitis – – – – Enteritis – – – –	3,416	7,847	Cystitis	276	634
	2,995	6,841	Ovarian Dropsy - - Skin Disease, &c. - - Cystitis - - - Intussusception - - - Cut, Stab (Suicide) - - - Gout - - - Carbuncle - - -	271 270	623
Scrofula	2,978 2,978 2,882	6,884	Gout	238	547
Lung Disease		6,621	Gout – – – – – Carbunele – – – – – Ague – – – – –	236 233	542 535
Sudden Deaths (Cause unas-) certained)	2,821	6,481	Ague	208	478
Stomach Disease, &c	2,698 2,494	6,198	Stone	191	439
Drowning (Accident) Epilepsy	2,494 2,219	5,729 5,098	Stricture of Urethra	177	407
Kidney Disease, &c	2,219 2,144 2,124	4,925 4,879	Noma	159 155	365 356
Epilepsy – – – – Kidney Disease, &c. – – Rheumatism – – – – Erysipelas – – – –	1,954	4,489	Poison (Suicide)	112	257
	1 Statistics		Gunshot (Accident)	104 103	239 237
Peritonitis – – – – Hepatitis – – – – Dysentery – – – – Laryngitis – – – Nephria – – – – Jaundice – – – –	1,555	3,572	Fistula	99	227
Hepatitis – – – – Dysentery – – – –	1,488 1,379	3,418 3,168	Arthritis	81	186 172
Laryngitis	1,319	3,030	Particular and the second second second	75	· · · · principlication
Peritonitis – – – – Hepatitis – – – – Dysentery – – – – Laryngitis – – – – Jaundice – – – – Mortification – – –	1,258 1,255	2,890 2,883	Otherwise (Suicide) – – Spleen Disease, &c. – –	64 62	147
	1,241	2,851	Spleen Disease, &c Privation	52	119
Thrush – – – – – – Joint Disease, &c. – – –	1,217 1,204	2,796 2,766	Paramenia	56	129 126
Ileus	1,139	2,617	Chorea	55 54	126
and all all and and and all and all all and all all all all all all all all all al		A State of the second	Pancreas Disease, &c	22	51
Influenza – – – – – – – – – – – – – – – – – – –	1,112 1,089	2,555 2,502	Hanging (Execution) Hydrophobia	74	16 9
Want of Breast Milk	1,005	2,336	Glanders	3	Ť.
	C. A. S. C. Composition	a and a code range	a los reach the sector	1 1 1 1	and the state of the state

14,611 to 25,998. And there is no corresponding or countervailing change either from consumption, or from the other pulmonary diseases.

The digestive organs are elaborate and subject to various kinds of disorders, which, however, are not so frequently fatal as those already mentioned. 19,842 persons died of diseases of the digestive organs; including 12,598 from the diseases of the stomach and intestinal canal, 22 from disease of the pancreas, 7160 from liver disease, and 62 from spleen disease.

Diseases of the urinary organs were the causes of 4736 deaths. The deaths by the various forms of these diseases are shown in the Tables.

The deaths by the diseases of each of the next three orders of disease were nearly equal.

The diseases of the organs of generation caused 1199 deaths; exclusive of deaths by childbirth and syphilis, appearing under other heads.

The diseases of the organs of locomotion, chiefly affecting the joints, produced 1285 deaths; including 6 from exostosis, 4 from mollities ossium, and 55 from necrosis, which occurred in 37 men and 18 women.

The diseases of the integumentary system induced 1107 deaths, including those by phlegmon, ulcer, and several curious varieties of skin diseases.

IV. DEVELOPMENTAL DISEASES.

We now enter upon a new order of diseases. They are attendant on the growth, nutrition, and development of the body, and are known as developmental diseases—of children (12,300), including premature birth, malformation, and teething ; paramenia and childbirth follow (2314), both incidental to women in the procreative age ; and then senesence, the decay of old age, to which 27,104 deaths are referred.

Atrophy, or an apparent cessation of nutrition, and debility, are the only facts to which the deaths of 27,990 persons, chiefly children, are referred. In Table 6. it will be observed that the deaths by debility of infants were classed with those from premature birth up to 1857, and since that year with atrophy.

The deaths of mothers in childbirth have been analysed, and the results are exhibited in the Tables 9, 10, and 11.

Age of	Estimated Number of Women bearing	I Tanati	Five	nguished in th Years -1859.	e	To ever	ry 100 Moth	e of Mortality ers bearing C r of Deaths by	and the second
Mother.	Children, 1851.	Placenta Prævia and Flooding.	Puerperal Mania.	Puerperal * Convulsions.	Rupture of Uterus.	Placenta Prævia and Flooding.	Puerperal Mania.	Puerperal Convulsions.	Rupture of Uterus.
15-25	107,440	220	102	481	16	.074	•035	1700	
25-35	328,720	806	215	342	78	•097	•026	•163 •041	•005
35-45	166,140	1,014	80	183	61	•237	•019	·043	·009 ·014
45-55	7,545	61	4	11	3	•307	•020	*055	•015
15—55	609,845	2,101	401	1,017	158	•133	•025	•064	•010

TABLE (9).—MORTALITY OF WOMEN BEARING CHILDREN at different Ages in the Five Years 1855-1859.

In calculating the annual mortality a correction has been made for increase of population. The annual rate of increase (females aged 15-55) 1841-51, was '01200, and it has been assumed that the number o' women bearing ehildren increased at a uniform rate at each of the ages in the Table. At the age 15-55 there were 9,992 deaths from childbirth and 5,288 from metria in the 5 years 1855-59. Of the 9,992 deaths from childbirth only 4,824 were designated under any of the definite headings of the class (see Supplemental Table of Causes of Death); same ratio, and raised accordingly in calculating the mortality. A similar correction has been made for each age in the Table.

*Exclusive of one death at age fourteen, in the year 1859.

XXII.

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V. VIOLENT DEATHS.

14,649 persons were killed by violence in the year. This is a sad confession for a nation humane, civilized, and skilled in all the arts, to make. It is exclusive of any deaths in warfare abroad. 13,056 of the deaths are ascribed to accident or negligence; 338 to homicide by coroners' juries ; 1248 to suicide, and 7 to public execution.

Of the deaths by accident or negligence 5482 were brought about by fractures and contusions, 2978 by burns and scalds, 2494 by drowning, 104 by gunshot wounds, 75 by cuts and stabs, 279 by poison, 952 by suffocation.

Of 100,000 persons 75 die of violence annually.

I referred in my nineteenth letter to the imperfect investigation of violent deaths arising from the unsatisfactory state of the coroner's office; and a subsequent inquiry has led to an improved arrangement for paying the coroners by salaries. We shall hope now to see great improvements in the returns of violent and sudden deaths; so that the information may throw new light on their causes and form the basis of a thorough and searching inquiry into the subject.

DEATHS BY LIGHTNING.

The electric force is distributed over the whole face of the country, and it differs in tension not only in different times, but at different places. We have no accounts of the trees, plants, or animals which it destroys by violent discharges in the several parts of the country; and it is only since the act for registration that any complete account of the deaths by lightning in England and Wales, has been obtainable.

TABLE (10).-MORTALITY from METRIA at different Ages, in the Five Years 1855-1859.

	Ages of Mothers.	Estimated Number of Women bearing Children, 1851.	Deaths from Metria in 1855-59.	Annual Number of Deaths from Metria to 100 Mothers living.	
04.20	15-25	107,440	1,502	•260	
	25-35	328,720	2,362	•134	
	35-45	166,140	1,360	•152	
	45-55	7,545	64	•158	
1134	15-55	609,845	5,288	•161	

In calculating the annual rate of mortality, a correction has been made for increase of population.

TABLE (11).-DEATHS of WOMEN in CHILDBIRTH in the Thirteen Years 1847-59.

			Nun	Deaths of		
YE	ARS.		Metria and Childbirth.	Metria.	Accidents of Childbirth.	Mothers to 10,000 Children born alive.
1847	-	-	8226	784	2442	60
1848	-		3445	1365	2080	61
1849	-	-	8339	1165	2174	58
1850	-	-	8252	1113	2139	55
1851	- 10	-	8290	1009	2281	53
1852	-	-	8247	972	2275	52
1853		-	3063	795	2268	50
1854	-	-	8009	954	2055	47
1855	-	-	2979	1079	1900	47
1856	-	-	2888	1067	1821	44
1857	-	-	2787	836	1951	42
1858	-	-	3131	1068	2063	48
1859		-	8496	1238	2258	51
13 years	1847-8	9 -	41,152	13,445	27,707	51

From the annexed Table it will be seen that 18 persons were killed by lightning in the year 1857; 26 in the year 1858; and 17 in the year 1859. They were nearly all persons in out-of-door occupations. 52 were males, 9 were females. 54 were of the age of 15 and upwards; one only was a female child under 5 years of age. Persons are therefore much less likely to be struck by lightning in-

doors than out in the fields, and under trees.

With better observations, which we expect from the coroners, exacter rules may be laid down.

I have the honour to be, Sir, Your obedient Servant,

WILLIAM FARR.

The Registrar-General.

To

TABLE (12).—DEATHS by LIGHTNING in the Three Years 1857, 1858, 1859.

IOISI	Deer								AG	ES.				
DIVISION	DISTRICT.	DATE.	SEX.	OCCUPATION.	0-	5-	10-	15-	20-	25-	35-	45-	55-	Gand
9	Hungerford -	1857. 16 June	Male -	Labourer		1				1				1
222555666677778	Hungerford - Hungerford -	16 June	Male	Labourer	-	-	-	-	-	1	-	-	1	1
2	South Stoneham	13 Aug.	Female		-	-	1-1	-	1 -		- - 1	1	ī	
55	Sturminster – Pewsey – –	19 June 6 July	Male - Male -	Labourer – – – Labourer – – –	-	-	- 1	-	-		1	-		1
5	Truro – –	5 July	Male -	Widow - - Labourer - -		- - 1			-	1	111111		- - - 1 1	
6	Tewkesbury -	30 June	Male -	Labourer	-		-	-	-	1 -	1	ī	-	
6	Penkridge -	6 Sept. 2 July	Male - Male -	Labourer – – – Labourer – – –	-		-	-	-		-		1	
7	Barrow-on-Soa Barrow on-Soa Gainsboro' -	13 Aug.	Male -	Labourer	_	-	-	ī	1 -		-	1111		
7	Barrow on-Soa	13 Aug.	Male -		-	-	-	-	ī	-	-	-	111111	
7	Boston	7 Aug. 13 Aug.	Male - Male -	Labourer – – – Labourer – – – Labourer – – –	-	-	-	-	-		-	-	-	
8	Ormskirk -	8 Aug.	Male - Male -	Butcher	-	1		1111	1	1			-	
10	Sunderland - Cockermouth -	5 July	Male -		-	ī	-	-		-	-	-	1]	
10 11 11	Wrexham -	4 Sept. 14 May	Male - Female	Shoemaker Daughter of Joiner -	-	-	ī	-		-	1		-	
11	Newtown -	14 May	Male -	Agricultural Labourer	1	1		-	1	-	1 -	-	ī	
115		1000								as nos			-	
2	HartleyWintney	1858. 3 April	Male -	Labourer – – –	in the second	C BAR								
3	Potterspury -	18 June	Female		-		-	-	-	1	1	-	-	
3	St. Neots – – Chesterton –	16 May 12 June	Male -	Miller	-	-	-	-	-	$\frac{1}{1}$	-		-	
4	Chesterton - Blything	16 May	Male – Male –	Miller – – – Labourer – – –	-		111111	-	-	1	-		11111	
2	Elham – –	114 Ang	Male -	Labourer	-	1 -	-	ī	-	111111	1	1 1	-	
3	Ware – – Hatfield – – Sturminster –	13 Aug. 12 Aug. 14 May	Male -	Labourer	-	-	-	1	-	-	1111	1	-	1
5	Sturminster -	12 Aug. 14 May	Male – Male –	Labourer – – – – – – –	-	-	-	ī	-	-	-	H	- 21	
3	Bedford Bideford	I II Aug.	Male -	Labourer	-	-	-	-	-	T	-	- 1 1	- - - 1	
5	Bideford Wheatenhurst -	8 July 22 May	Female		-	-	-		ī	-	1		2	
7	Bakewell	12 May 12 Aug.	Male – Male – Male – Male –	Carter	-	-	-			- - - 1	-	111	-	
6	Stroud	12 Aug. 12 June	Male -	Labourer	-	-	-	-	ī	-	-	1 1	1	
8	Maeclesfield - Madeley Bradford	3 June	Male -		-	-	-	1		-	-	-		
233342335356768696969699111	Bradford	8 June 3 June	Male - Male -	Railway Labourer -	-	ī	-	-			-	-	-	
6	Meriden – –	3 June 12 June 16 June	Male -	Farm Labourer -	-	1 -	-	-			ī	-		1
9	Leeds – – Atherstone – Goole – – Clun – –	16 June 8 July	Male – Male –	Dyer	-	-	-	-	-	-		1	-	
9	Goole	17 June	Male -	Farm Labourer	-	-	-	ī	-	1				
6	Clun – –	8 July	Female	Dau. of Rag Collector	-	_	ī	-	-		-			
9	Tadcaster – Wortley – –	17 June 12 Aug.	Male - Male -	Woodman	-	-	-	1	-	-	-	-	-	
10	Penrith	14 May	Male – Male –	Miner – – – – – – – – –	-	-	-	-		- 1 1	-	-	-	
11	Carnarvon –	12 June	Male -	Quarryman		-	-	-	-	1	ī	-	-	13
		1859.				and and					-			
1	Wandsworth -	26 June	Male -	Domestic Servant -	-		_			1				
3	Ely	30 May	Male -	Labourer – – –	-	_	-	-	-	-	-	-	1	
8	Thingoe Rochdale	30 May	Male – Male – Male – Eemale	Agricultural Labourer	-	-	-	-		-	-	-	1 - 1	
8	West Derby -	7 June 18 July	Female	Labourer – – – – Daughter of Farmer – Wile of Weaver – Quarryman – –	-	-	-	-		ī	1111	-	1	
8	Haslingden -	18 July	Female	Wife of Weaver -	- 1	-	-		-	-	ī	-		
9	Wortley Easingwold -	20 July 19 July	Male – Male –				-	-	-	ī	-	-	- 1	
9	Todmorden -	8 Mar.	Male -	Agricultural Labourer Carter – – –	=	-		-	-	ī	-	-	-	J
9	Todmorden -	5 June	Male -	Warehouseman -	- 1	-	-	ī	-	-		-	-	
1 3 4 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Bradford Bradford	6 June 6 June	Female	Daughter of Comber -	1	-	-	-	-		-	-	-	1
10	Alnwick	6 June 6 June 1 Dec.	Female Male -	Wife of Comber – Collier – – –	-	-	-	-	ī	1		-	-	
	Alnwick – – Holywell – – Chepstow –	30 May	Male -	Baptist Minister -	- 1	- 1	-	-	- 1	-	-	ī	-	
	Chepstow –	23 July 23 July	Male – Male –	Labourer	-	-	-	-	-	1	-	-		1
II	Merthyr Tydfil	23 July	Male -	Son of a Labourer - Collier	-	-	1	-	-	-	-	-	-	1
									1		1	-	-	1
all shares			No. Classer (War)	TOTAL -	1	3	3	7	5	15	8	7	8	4

[The following Index furnishes a reference to the Number of each DISTRICT in the topographical arrangement adopted in the Tables of Abstracts contained in the Report, the numbers running consecutively from 1 to 623.* In forming the alphabetical arrangement the principle is adopted of placing compound names in the order in which they are pronounced : thus, East Ashford will be found under the letter E, and not under A, as Ashford, East.]

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* Thus, the number of Marriages in the Aberayron District may at once be ascertained by referring, in the "*Abstract of Marriages*," to the District numbered 596 (see page 24); and in like manner the number of Births and Deaths, of Deaths at different Ages, &c. will be found by referring to the same district number in the appropriate Tables.

From the amagned Table it will be seen that is persons were killed by 1859. They were nearly all persons in out-of-door compations, on ware naises 9 were founder. 54 were of the age of 15 and upwards i out only was a female child under 1 years of age. Foreons are therefore much here shely to be struck by lightning in-

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