

smallpox, or 7,663 out of 94,955 deaths from all causes; while for the twenty-four years from 1832 to 1855 (inclusive), out of an average population of 4,248,155, only 287 persons, averaged annually died from smallpox out of an annual average of 131,412, or 1 to 457.

In Copenhagen and Berlin.

Similarly in Copenhagen, for the fifty years, 1751 to 1800, the smallpox death rate was 3,422, while for the first forty years of vaccination it averaged only 286. In Berlin, during twenty-four years preceding vaccination, the death rate was 3,422, and for the forty years succeeding vaccination 176, from smallpox.

Vaccination had Reduced Smallpox by Middle of Nineteenth Century.

So general had vaccination become by the middle of the nineteenth century, the fatality had been reduced in Copenhagen to one-eleventh of the pre-vaccination rate; in Sweden to nearly one-thirteenth; in Berlin, one-twentieth; while in London the smallpox deaths by decades both before and after the introduction of vaccination were as follows:—

<i>Before Vaccination.</i>		<i>After Vaccination.</i>	
Decade.	Deaths from Smallpox.	Decade.	Deaths from Smallpox.
1761-1770.....	20,434	1801-1810.....	12,534
1771-1780.....	20,923	1811-1820.....	7,858
1781-1790.....	17,867	1821-1830.....	6,900
1791-1800.....	18,477		

Many similar tables could be given in proof of the fact that with the introduction of vaccination came a decrease in the number of deaths, but to extend the truth is quite unnecessary.

Vaccination has Changed Age Incidence.

It may be both of interest and importance to the question to illustrate the fact, that vaccination has changed the age incidence of smallpox. The figures are those of Warrington, in which epidemics of smallpox occurred in 1773, when the population was 8,000, and 211 deaths happened; again in 1893, when the population was 54,084, of whom 53,645 were vaccinated.

The ages are as follows:—

	1773.		1893.
	All unvaccinated.	Vaccinated.	Unvaccinated.
Under one year.....	49	0	8*
1 to 2 years.....	84	0	1
2 to 3 years.....	33	0	0
3 to 4 years.....	18	0	1
4 to 5 years.....	15	0	1
5 to 6 years.....	4	0	0
6 to 7 years.....	2	0	0
7 to 8 years.....	2	0	0
8 to 9 years.....	4	1	1
9 to 15 years.....	0	1	1
15 to 20 years.....	0	1	2
20 to 30 years.....	0	10	4
30 to 60 years.....	0	24	5
Over 60 years.....	0	1	0
	211	28	24