

of 826,341 was much smaller than that of the army, the deaths from smallpox in the city being 5,508, or twelve times as many more than in the vaccinated army, although the latter was numerically larger.

Again, Germany affords a striking proof of the benefits which followed the compulsory enactment of 1875; previous to this date viz., in 1871-2 the death rate per 100,000 was 243.2 and 262.67 respectively; while in the years from 1875 to 1886, the average yearly mortality per 100,000 was 1.91 the maximum being 3.6 in the year 1877.

Again in 1897 there were but five deaths from smallpox, in a population of fifty-four million people.

Returning again to army statistics, a comparison may be made, between the vaccinated army of Germany, and the imperfectly vaccinated armies of Austria and France, and in considering these figures it must be remembered that the army of Germany was the largest numerically.

#### *Number of Cases of Smallpox.*

|                                |             |
|--------------------------------|-------------|
| German army, 1875-1887 .....   | 148 men.*   |
| French army, 1875-1881 .....   | 5,605 men.  |
| Austrian army, 1875-1886 ..... | 10,238 men. |

*Table Showing Countries With Compulsory Vaccination Laws are First Free from Smallpox.*

But what are the facts and figures when we compare the returns of smallpox in the different European countries. The figures on the table bespeak the facts, that the countries having the strongest vaccination enactments suffer the least from smallpox, and they also enunciate the truth that, without vaccination, smallpox is and must be regarded as a scourge and a great destroyer of human life.

In sixteen countries 346,520 persons were sacrificed to smallpox, and of this total 275,502 occurred in Russia. The most of these deaths might have been prevented by vaccination.

#### *Smallpox in Sixteen European Countries 1893-97.*

|   | Population. | Averages yearly mortality per million. | Deaths from Smallpox. |
|---|-------------|--|-----------------------|
| Germany .....                                   | 52,042,282  | 1.1                                    | 287                   |
| Denmark .....                                   | 793,356     | 0.5                                    | 2                     |
| Sweden .....                                    | 4,894,790   | 2.1                                    | 41                    |
| Norway .....                                    | 2,045,900   | 0.6                                    | 5                     |
| England and Wales .....                         | 30,389,524  | 20.2                                   | 3,066                 |
| Scotland .....                                  | 4,155,886   | 12.3                                   | 256                   |
| Ireland .....                                   | 4,580,555   | 9.9                                    | 226                   |
| Switzerland .....                               | 3,032,901   | 5.1                                    | 78                    |
| Netherlands .....                               | 4,797,249   | 38.7                                   | 929                   |
| Belgium .....                                   | 6,419,498   | 99.9                                   | 3,208                 |
| French States .....                             | 8,253,079   | 90.2                                   | 3,721                 |
| Russian Empire (including Asiatic Russia) ..... | 118,950,400 | 436.2                                  | 275,502               |
| Austria .....                                   | 23,000,000  | 99.1                                   | 11,799                |
| Italy .....                                     | 31,007,422  | 72.7                                   | 11,278                |
| Spain .....                                     | 10,596,649  | 563.4                                  | 23,881                |
| Hungary .....                                   | 18,234,916  | 134.3                                  | 12,241                |

\* With only one death and this an unsuccessfully revaccinated reservist.