

tion is based upon evidence which demonstrates, 1st—The protective influence of vaccination, and 2nd—The causes which have combined to impair its protective powers. 1st—To prove the influence of vaccination in England, it is shewn that out of every 1000 deaths in the half century from 1800 to 1850 there were only 35 deaths from small pox. 2nd—To prove the influence of vaccination on the Continent, it is shewn that in the various German States sufficient evidence can be obtained to show that out of every 1000 deaths before vaccination was used, 66.5 were deaths from small pox; but that out of every 1000 deaths after vaccination came into use, the deaths from small pox were only 7.26. To prove that in countries where vaccination is most perfectly carried out small pox is least mortal, it is shewn that—

(a) In this country, where vaccination has been voluntary, and frequently neglected, the deaths from all causes being 1000, the deaths from small pox were as follows: London, 16; Birmingham, 13.6; Leeds, 17.5; England and Wales, 21.9; Perth, 25; Paisley, 18; Edinburgh, 19.4; Glasgow, 36; Galway, 35; Limerick, 41; Dublin, 25.6; Connaught, 60; All Ireland, 49.

(b) In other countries, where vaccination has been more or less compulsory, the deaths from all causes being 1000, the deaths from small pox were as follows: Westphalia, 6; Saxony, 8.33; Rhemish Provinces, 3.7; Pomerania, 5.25; Lower Austria, 6; Bohemia, 2; Lombardy, 2; Venice, 2.2; Sweden, 2.7; Bavaria, 4.

Similar corroborative evidence of these results has been adduced by Dr. Balfour from the records of the Army and Navy Medical Department, where compulsory vaccination prevails. For twenty years, namely from 1817 to 1837 inclusive, it is shown that in Dragoon regiments and Guards, with an aggregate strength during that period of 44-611 men, and a total mortality of 627, only three deaths were from small pox. 2nd—Among the troops at Gibraltar, the aggregate strength being 44-611 men during that period, and a total mortality of 1291, only one death from small pox occurred. 3rd—In