## Vaccination.

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# VACCINATION. SE OF SURGEORS 23

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mankind, yet he justly conceives it to be one of the reproaches of the coastry that it has not availed itself so much of it as of any other of its benefits.

of the country that it has not a valued therit so much of it as of any other of its benefits. "The small-pox (he says) is of all maladies that which, during the last thousand years, has destroyed the largest por-pise of the human species, and been productive of the largest hare of human mixery. There is, perhaps, no discase over which medical art has less power, and this power, such as it, has consisted more in abdihing permicions prestices that is ascertaining any positive methods of controlling its fatality, unless we except the isocalation of it with its own whom it is actually practised is medeniable, it has no tea-der of human to the except the disease; and from be impossibility of rendering it universal, it has actually pening a new source of diffusion to its eirar." The reflect from the bills of mortality four periods, each of 15 pars, for the purpose of exhibiting the mortality of small-pars in each of these series in regard to each other, of which he following is a summary :

the following is a summary :

EATIO OF THE MORTALITY OF SMALL-POX TO THE TOTAL MORTALITY.

Frem	1706	to	1720,	one	in.	12.7 :	that	is,	78	in	1,000
From	1745	to	1759,	one	in.	11.2;	that	is,	89	in	1,000
			1798,								
From	1805	10	1818,	080	in	18.9;	that	is,	53	in	1,000

In all these computations, fractions are not noticed in the at column of numbers.

last column of numbers. "From this statement it would appear, that the propor-tion of deaths from small-pox to the total mortality increased in the course of the last century ; so that inscelations appears to have added to the mostality. It was in the rural popula-tion that the effect of inocalation in diffusing small-pox was chiefly felt. In this simulation there is much less intercourse of persons with each other than in towas, so that not only may individuals escaped from exposure to this infection da-ring their whole life, but whole districts were known to have a symptotic from it for a long series of years, before it was there excepts from it for a long series of years, before it was universally diffused by inocalation." But Sir Gilbert does not think this quite a just scale whereby to measure the re-lative mostality of small pox; for in the course of that con-tant the general mortality itself was greatly diminished in

tary the general mortality itself was greatly diminished in clusion to the population. "But the truly important results from these statements consists in the clear, undeniable, and great diminution of dusting since the introduction of vaccination. It appears that in the last 15 years the mortality from small-pox, in the fills of mortality, has not been much more than one half of wint is was in the two like series of years in the middle and latter cod of the last century." If to this be added the wat purishes and the unregistered burials among the dissen-ter, Sir Gibbert Blane calculates that the account of lives aved in this metropolis by vaccination, in the last fifteen years, will stand as follows :---

Within the Without the	kills of	mortality	12,853 2,570
Unregistered	Cases		7,711

#### Total 23,134

Total 23,134 The there goes on to remark on the fluctuations in the sum-form of deaths is the last fifteen years, which he partly attri-tions of the small-pox inscalation of eat-patients having, by an unacconstable infatuation, here kept up at the small-power of the small-pox. This mortality, "he thick, "though little more than one half of what it was in former there are index on the continent of Earope, in Pera, \* and Ceyton. "A la now matter of irreferagable historical evidence, that shows of bits meritorious discoverer, in his first promalgation to 1708 - asmely, the total extingation of small-pox.-the first proof of this small views, where in 1804 no cases between evident and extingation of small-pox.-the first proof of this small views, where is a 1804 no cases between evident and extingation of some of the disease of small-pox.-the first proof of this small views, where is a 1804 no cases between evident and extingation of some of the source of a size between evident and the stotal extingation of the sity with the disease upon thes. In 1805 there did not occur a size between evident of vaccination is Lombardy, stated.

his annual report, 3d January, 1808, that the small-pox had nutively disappeared in all the large towns in that country, and that in the great city of Milan it had not appeared for several years. Dr. Odier, of Geneva, so favoarably known for his professional, and literary sequirements, testifies that, after a vigorous perseverance in vaccination for six years, the small-pox had disappeared in that eity and the whole surrounding district, and that when easually introduced by strangers it did not spread, the inhabitants not being sus-ceptible. The Central Committee in Paris testify, in their report of 1809, that the small-pox had been extinguished at Long with the first extranse.

These (Sir Gilbert remarks) are selected as some of the "These (Sir Gilbert remarks) are selected as some of the enricest proofs of the extirpating power. And in order to stimulate the good and the wise to aim strenoously at this consummation, let it be constantly horne in mind, that the adversary they are contending with is the greatest sconrge that has ever afflicted humanity. That it is so, all history, civil and medical, proclaims; for, though the term 'plague' carries a sound of greater herror and dismay, we should probably be within the truth, if we were to assert, that small-nex has destructed a humanity. multipex has destroyed a hundred for every one that has perished by the plague. "It is true that in its last visitation of this metropolis, 154 perist

years ago, it carried off 70,000 victims in a few months; but since that time, the deaths from small-pox, recorded in the hills of mortality, have amounted to more than 300,000; and a like number of the survivors have been allicted with blind

a like number of the survivors have been allieted with blind nesst, deformity, scrofula, or broken constitutions, which is not the case with the plague. "The description of those cases of small-pox, (if, Sir Gibbert says, they can be called so.) which occur in vacci-nated subjects, is shortly as follows. The evasion and orup-tion in every respect resembles that of the genuine small-pox. I have seen it attended with high fever and a thick crowded crop of papalar, such as precedes the most severe and descrements cases of the confinent kind. This runs on tion in every respect resembles that of the genuine small-pox. I have seen it attended with high fever and a thick crowded crop of payafe, such as precedes the most severe and dangerous cases of the confluent kind. This runs on till the fifth day from the eraptice, both days included, at which time some of the payafer begin to be converted into small sized pustules. The disorder then abruptly stops short. On the following day the fever is found to have subsided, with a shrivelling and desiccation of the eruptice, and recovery proceeds without the least danger or inconve-n ience. The face is marked, for some time after, with be own spots, but without pits. It should never be forgotten, that all morbid plenomean are full of varieties and exceptions.— Accordingly, though the fifth day is the most common limit of this disorder, it sometimes stops short on the third; some-times not till the sixth or seventh; and in a very few cases it has been known to run the common course of small pox. What forms the strong line of distinction from proper small-pox is, that with a few exceptions, it does not proceed to maturation and secondary fever, which is the only period of danger. I am not prepared to deny that death may not have occurred in a few instances, may, there seems sufficient evi-dence that it actually has ; but these adverse cases are so rate. dence that it actually has; but these adverse cases are so rare as not to form the shadow of an objection to the expediency of the general practice. A few weeks ago, at a meeting of this society, (the Medico-Chirurgical,) at which 40 members and visitors were present, I put the question whether any of these eminect and extensive practitioners had met with any fatal cases of this kind. Two gentlemen had each seen a single case, and two other gentlemen took occasion to say that they had each seen a case of second weath each both of single case, and two other gentlement took occasion to say that they had each seen a case of second small-pox, both of which proved fatal. It is evident, therefore, that according to that maxim which guides mankind in the conduct of life, namely, that of acting on a general rule and average, and not on exceptions, these adverse instances ought not to have the least influence on practice, even though they were much more numerous.

the reast summerous. "As it is of the utmost consequence to establish the strong and important distinction between small-pox, properly so called, and that which takes place after vaccination, which may be called the mitigated, or five day small-pox, a few of the most impressive testimonies respecting the safe nature of the most impressive testimonies respecting the safe nature of the most impressive testimonies respecting the safe nature of the most impressive testimonies respecting the safe nature of the most impressive testimonies respecting the safe nature of the most impressive testimonies respecting the safe nature of the most impressive testimonies respecting the safe nature of the most impressive testimonies of the most impressive testimonies of the safe nature of the most impressive testimonies of the most impressive testimonies of the safe nature of the most impressive testimonies of the safe nature of the most impressive testimonies of the safe nature of the safe nat the most impressive testimonies respecting the safe nature of the latter may be here recited. Mr. Brown of Musselburgh, the latter may be here resided. Mr. Brown of Musselburgh, gives the detail of forty-eight cases, in none of which did the secondary fever nor death occur. Here was a saving of at least eight lives, at the lowest computation, for this is the sumber which by the average mortality of natural small-pox would have died, if the constitutions of these forty-eight per-sons had not been modified by previous vaccination. Dr. Dewar, of Edisburgh, hearing that many vaccinated subjects had been affected with small-pox at Cupar in Fife, where the satural small-pox at the same time prevailed, he most lauda-bly repaired to the spot to investigate the subject. He found that 54 vaccinated subjects had caught the small-pox. All these, except one, had the mitigated or five-day eraptive fever and livid. The fatal case was that of a child, who had a complication of other disorders, and having died on the fifth day, the small-pox, according to its ordinary course of fatality, could not of itself be the cause of death. All the rest were safe, while of sixteen cases of the natural small-pox fatality, could not of itself be the cause of death. All the rest were safe, while of sixteen cases of the natural small-pox at the same time and place, six died ; so that, if these fifty-three cases had not undergone the mitigating process of vac-cination, nineteen or twenty would have perished. Between thirty and forty cases of the same kind have occurred at Carlisle, on the testimony of Dr. Barnes, a respectable prac-titioner of that city. : Many proofs might be adduced from

+ It appears, by a report of the hospital for the indigent blind, that two thirds of those who apply for relief have last their sight by the small-pox.

2 See also a clear and able exposition of this subject in the Mer-dical and Surgical Journal of Ediaburgh for July, 1818, by Mr. Dunning, of Plymouth.

the oral testimony of private practitioners, which would overawell this article. The only other to be mentioned is from the report of the Central Committee of Vaccination at Paris, made in December hast, in which the description of the disease occurring after vaccination corresponds exactly with the mitigated fire-day cases which have occurred in Britain. They refuse the name of small-pox to it; bat as I know from my own observation, as well as from the testimony of others, that the mister from it does by inocalation give the small-pox, we can hardly perhaps with propriety deny it that name; but it should be distinguished by same strong discriminating epithet, such as is suggested above. epithet, such as is suggested above.

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"Now let all this be applied to the case of a community, in which the total eradication of small pox is quite hopeless. Let it be admitted that such occurrences as have been de-scribed do frequestly occur; let it even be admitted, for argument's sake, that every vaccinated case whatever must of argument's sake, that every vaccinated case whatever must of necessity ned unavoidably at some time or other in future life be affected with this mitigated species of small-pox, would it not even, under this great abatement, be one of the greatest boons that could be conferred on humanity, as an instrument or remedy which would disarm small-pox of its danger? The next greatest benefit to the total extirpation of small-pox would be the stripping it of its terrors by rendering it safe and harmlers. and harmless

" It may be further remarked, that the benefit derivable " It may be further remarked, that the benefit derivable from the different proportions of the persons vaccinated to the total population, advances in a considerably higher pro-gression than the simple arithmetical. It is evident that the smaller the relative number of the vaccinated, the greater their chance of meeting with amall-pox infection; and that though the disease they may catch is of a mitigated nature, it would nevertheless be desirable to avoid it on its own ac-count, but still more on account of the prejudice it creates. This, in the eye of general benerolence, constitutes no addi-tional, though secondary mative, for extending the vaccino inocalation as widely as possible, even though the attais-ment of the maximum of total extirpation should be imprac-ticable and hopeless. ticable and hopeless.

" It is of the highest importance to society that this sub-ject should be seen in its true light, and in all its bearings ; for the frequent occurrence of these cases of small-pox, howfor the frequent occurrence of these cases of small-pox, how-ever safe in themselves, have had a most persicious effect on the credulous and ignorant, by giving a check to the practice of vaccination. How many parents are there now, who, from a weak distrust in the virtue of vaccination, have to lament the loss of a child from small-pox, either casual or inorulated ? Many such are known to myself. It is pleasing, however, to observe, that though this unsmerited discredit into which vaccination had fallen swelled the number of deaths in Loadon from small-pox to 1.031 in 1817, good sense is likely still to prevail ; for last year (1818) the deaths have fallen lower than they have ever been known since the binstitution of the bills of mortality, the total sumber being institution of the bills of mortality, the total number being only 421.

<sup>10</sup> On the whole matter, I believe, I am speaking the language of every man of good principles and feelings, capable of reflecting scrioually and considerately on the subject, when you want the subject of the second "On the whole matter, I believe, I am speaking the lan-

"Such are the sentiments which must fill every well-constituted mind, and it behaves the whole medical profes-sion, which has already done itself so much honear by the realous and disinterested encouragement afforded to it, to continue its efforts is eradicating every remaining pre-judice against it. It becomes Englishmes, in particular, to foster it, not only as the native offspring of his country, of which he has reason to be prood, but to redeem the character of the antion from the reproach of having of all others, whe-ther savage or civilized, done the least justice to this moble discovery. There is no country which has prized it less, nor availed itself of it so little. Have we not seen it adopt-ed instantly in Peru, in consequence of a flash of conviction from the light of evidence, and have we not seen this convic-tion ford the glory attached to our country by this dis-covery, it must be no small consolution to perceive that a large proportion of the English nation has hitherto been so bested as not to know how to appreciate nor to avail itself of the as the know how to appreciate nor to avail itself of it, and that it has encountered more opposition among ourselves than is all the world beades."

Sir Gilbert Blase cosoludes this important paper with four tables, a summary of which is given above.

In the summer of 1911 the author was called to visit, profession-dity, Don Francisco de Salazar, who had artived a few days before a London, on his route from Lima to Cadia, as a deputy to the Spa-nish Cortex. He informed me, that vaccination had been practised with so much energy and success is. Lima, that for the last tweive mentio there had secured, not only no death from, but no case of, mail-post; that the new-horn children of all ranks are carried as weakers in entirely extinguished all over Preu; nearly so in Chili, and that there has been no completely interforence on the part of he government to promote vaccination.

1730, and in 12.7 (that is, 76 is 1,000 1150, and 12.1 (100 1150, and 10 112.1 (that is, 100 is 1,000 1150, and 11.1 (10.1 (that is, 91 is 1,000 11510, and is 10.0 (that is, 91 is 1,000 11510, and is 10.0 (that is, 10 that is, 10 (that is

Accounting the strangty lates Alth Mell at several balance and the Mild Paulos at this disconters R summiliants strops short curlle Mild Paulos interve and Mill the sixth are percently; and link very live count of the balance of a strong line of distinction from proper vehicle and the strong line of distinction from proper vehicle weather and accountary force, which is the antly particular prove its, that with a few analyticus, it does need to make the strong line of distinction from proper vehicles in the strong line of distinction and here any particu-ing one its data accountary force, which is the mill particular proper its data accountary force, which is the the maly particu-ing and the strong line of distinction weater ages at the proper strong line of the strong line of the strong intervent is a strong line of the strong line of the strong line in the strong line of the strong line and the strong line strong line of the strong line and the strong line strong line of the strong line and the strong line strong line of the strong line strong line strong line and the strong line of the strong strong line strong line strong line of the strong line strong line at the strong line strong line of the strong line strong lines strong lines and lines are strong lines which are a strong lines are strong lines and lines are strong strong lines and lines and lines are strong lines and strong strong lines are strong lines are strong lines and lines are strong lines and strong line as space of the lines weater and strong strong lines are strong strong lines and lines are strong at a strong lines are strong strong lines and lines are strong strong lines are strong strong lines and lines are strong strong lines and lines are strong strong lines and lines are assorted strong strong strong lines are strong strong lines and strong strong strong strong strong strong lines are strong str

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