## An early report on vaccination for smallpox.

#### **Contributors**

Boston (Mass.). Board of Health.

### **Publication/Creation**

[Boston]: [publisher not identified], [1937]

#### **Persistent URL**

https://wellcomecollection.org/works/zm448zmw

#### License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org BOTTON BOARD OF HEALTH

415T. PAM.

AN EARLY REPORT ON VACCINATION FOR SMALLPOX



# REPORT OF THE

# BOARD of HEALTH.

The Board of Health for the town of Baffar, are happy to have it in their power, this day, to are counce to their fellow-citaents which perhaps has ever been made, to prove the efficacy of ont of the moil complete experiments which perhaps has ever been made, to preve the efficacy of the Gow-Per, as a preventive against the Small-Per; and while they take the liberty to congratulate the public on this important dicovery, they do carnetilly recommend its introducing generally, and are confident that it will be the means of preferving thelives and adding to the happine of million.

The utmost care has been taken, during the experiments; and a detailed flatement of faths are tabloited, for the gradification of every enquirer.

In June, 1801, Dr. Jacusov addressed a letter to the Board of Health, requesting their countenance in certain experiments which he contemplated making, to prove the efficacy of the Cow-Por, as a preventive against the Small-Por; to which application the avocations of the Board would not permit that attention which the plan proposed by Dr. Jacusov sequireed.

In June, 1801, Dr. Warannouse made a similar application, accompanied with a very minute history of that disorder, from himself, and alforated for the purpose of making experiments similar to their proposed to be made by Dr. Wy which it appeared, that the public in those protected to be made by Dr. Wy by which it appeared, that the public in those places, were deriving incalculable benefits by a pretty general inoculation. About this time the Small-Pour was raging in the family of Mr. Hottost, Figh-Store, and three persons out of five, under the care of the Board of Health, had died.—The Cow-Pour, in a substitute of the thir failing and the care of the standard of the followed provided, under Goo, for the prefervation of the fast and obtained much credit.

The Board of Health, deeply affected with the faral and different town, whether their faith in the efficacy of the Cow-pour was need to the word, and the result of the substitute of the

DANIEL SCOTT, Chambers-Street, Almanen Clarer, Cornbill Jone Street, Prince-Street.

Ozias Goodwin,
Gro. Goodwin,
Gro. Goodwin,
Samuel Mattis,
Samuel Richirs,
Robert Williams,
Herny Williams,
Reuse Loring, Walfin's Law.
Thomas Truman,
John Witz,
Seth King,
Grong Fores,
William Auritis}
Fift-Street.
Thomas Strar, Hames-Street,
William Auritis,
Thomas Strar, Hames-Street,
Wil Green, Hams,
Thomas Strar, Hames-Street,
Wil Green, Hams,
Thomas Strar, Hames-Street,
Wil Green, Hams,
Thomas Strar, Hames-Street,
Were inoculated with the Cow-pox, at the Health-Office, in prefence of the Board, and of a number of gentlemen invited. The phylicians who attended were Drs. Llyd, Rand, Jeffrice, Warren,
Waterbook, Well, J. C. Hamerd, and T. Danjarth;
and the children went through the diffurder to the fanishedition of the gentlemen phylicians, and of this
Board.
Freth Small-pox matter being obtained, through

and the children wort through the differder to the finishelion of the gentlemm phylicians, and of this Board.

Freth Small-por matter being obtained, through the politeness of Dr. Warns, the proposeror of the Small-por Hospital at Fatouats—on the 9th of November, tweive of the children before named, together with George Bentlet, son of Dr. Bartlett, of Cherlysbene, who had the Cow-pox two years fines, were inoculated at the Hospital erecked on Middle's Hand, with the Small-pox, from the matter obtained from Dr. West—and at the familiant two children of Mr. Cheilysber Clork, of Hinghman's Low, viz. Thomas and John, who had never had either the Cow-pox on Small-pox, were also inoculated with the latter; and in the proper time the arms (of the two Clarks) became inflamed—the symptomatic fever, and sufual appearance strending the Small-pox, appeared—and finally publishes to the amount of about 500 on own, and 250 on the other, put forth and matterated, as has been invariably the case in all inflances of the small-pox within our knowledge. From these two children, thus affeded with the Small-pox, fresh matter was taken, and the thirteen children before named, who were cotalled. The small-pox is first mentioned, were also inoculated with the first inoculation with Small-pox, were again inaculated on the 2xst day of November; and the other from the Clast; and the whole remained together inthe farme hosts, in the fame room, and often in the fame bods, without producing the least appearance of the Small-pox, either by uncommon foreness of the Small-pox, either by uncom

#### THE PHYSICIANS REPORT.

THE PHYSICIANS REPORT.

WITH a view of sitertaining the efficacy of the Cow-pex in preventing the Small-por, and of disfusing through this country the knowledge of fuch fasts as might be established by a course of experiments instituted for the purpose, and thereby removing any perjudices, which might posses the public mind on the fubjest, the Board of Health of the town of Biglion, in the course of the last Summer, came to a determination to invite a number of Physicians to cooperate with them on this important design; and with a liberality becoming enlightened citizens, credied a Hodpital on Nosthi-Jianal, for carrying it into execution.—Accordingly, on the 16th of August last, insteach boys, whole names are subjoined, were inoculated for the Cowpox at the office, and in perfence of the above-mentioned Board, with fresh transparent Cow-pox matter, taken from the arms of a number of patients then under this diffease. These all received and passed through the disease to the complete fatisfaction of every person present, conversant with the disease.

On the 9th of November, twelve of the above children, together with one other, Gronze Baxritri by same, who had passed through the Cowpox two years before, were inoculated for the Small-Pox on Nodel'-Jsani, with matter taken from a Small-pox patient in the most infectious shage of that dilease. The arms of these lads became instanced at the incitions, in proportion to the various irritability of their liabits, but not to a degree greater than what any other foreign, vinalent matter would lare proqued of the experiments, though the children took no medicines, but were included in their usual modes of living and exercise; and were all lodged possilitously in one room.

At the same time and place, in order to prove the activity of the Small-pox matter, which had been used, two lads, who had prever had either the Small-pox or Cowpox, were inoculated from the fame matter. At the usual time, the arms of these two patients exhibited the true appuarance of the Small-pox. A fever enquire fever ensued, and produced a plantaous crop of Small-pox pushule, amounting by ellimation, to more than five hundred in the other.

When these putules were at the highest state of infection, the chirteen children before mentioned, were inoculated a feccual time, with recent matter, taken from the pullules, which said matter was likewise inferted into the arms of the fiven other children, who were absent at the first inoculation.—

They were all expected, meet of them for twenty days, to insection, by being in the fame room with the two boys, who had the Small-pox, so that, if susception from very kind of eruption on their bodies, that the Cowpox prevented their taking the Small-pox.

JAMES LOVID.

BAMUEL DANFORTH.

SMAULEL DANFORTH.

JAMES LLOVID.

JAMES LL

THOMAS DANFORTH.

Charlifform, December 15, 1802.

This may certify, that my fon, Gronor Barrary, at the age of eight years, was inocculated for the Cow-por, on the 11th day of November, 1800; that the appearance of his arm, and the fymptoms, to fully corresponded withthe plates and publications I had then feen, as to convince me, and others of my medical friends, that he had the disagr.

Follow of the Maft. Mad. Society.

To the Profilest and Monders of the Board of Health, Boston.

SOCOCOUNTY OF Sth. 1801.

We, Suranna Tournay and Levy Learnes, nurses attending on the experiments corroborating the efficacy of the Cow-por.—do certify that there was not the least fichness or appearance of Small-por among any of the children who were fubjects of the fame, during their flay at Noddle's Jisad, excepting the two boys, Tuomas and Jone Clarke, who had never had the Cow-por., and were isocculated for the Small-por, with a view to render the experiment more complete.

SUSANNA TRUMAN.

LUCY LEARNED.

Health-Offer, Borrow, Die. 16, 1801.

Published in side of the Based of Health.

Health-Office, Bostow, Dec. 16, 1801.
Pathiphed by order of the Board of Health,
ISAIAH DOANE, Profident. R. Garders, Secretory.

ବଳନନନନନନନ



## AN EARLY REPORT ON VACCINATION FOR SMALLPOX

There has recently been acquired by the Boston Medical Library, through the kindness of Mr. John Howland, of Boston, a fine copy of a broadside issued by the Board of Health of Boston December 16, 1802. Mr. Howland is a descendant of the brother of the then president of the Board of Health, Mr. Isaiah Doane, and the broadside was recently found among the family papers. Although not unknown, for there is a copy in the library of the Massachusetts Historical Society and also one in the office of the Surgeon General, Washington, this document, nevertheless, is one of great interest and deserves reprinting. A facsimile, somewhat reduced in size, is shown on the opposite page.

The facts which led to the printing of this broadside are, briefly, as follows. Dr. Benjamin Waterhouse received a copy of Jenner's book early in 1799 and published the first notice about it in a newspaper, March 12 of that year. On July 8, 1800, over a year later, he received some cowpox vaccine and vaccinated his five-year-old son-the first person to be so treated in America. The procedure, however, was not quickly adopted, many of the older physicians being against it and only a few of the younger practitioners carrying out this simple maneuver. Even in the summer of 1802, when there was an epidemic of smallpox in Boston, Waterhouse states: "The faculty in that town, with one exception, had not given it their decided approbation and countenance" and "the younger practitioners inoculated," now and then, a few, but scarcely enough to keep up a continuity of cases, for the preservation of the matter" (p. 48).† Thus it will be seen that without the help of the physicians of Boston and with the cowpox matter in danger of being lost on account of the infrequency of vaccination, Waterhouse was in no position personally to force the issue. Another factor, moreover, had appeared: persons outside of the medical profession were using cowpox vaccine and, as Waterhouse states: "Journeymen mechanics, apprentices, day labourers, and, in some instances, children inoculated each other." Thus a number of persons were unsuccessfully vaccinated or, in some instances, given secondary infections,

In order to overcome the situation, Waterhouse returned to the method which he had first used in acquainting the public with the value of vaccination. He published a letter in the Columbian Centinel, August 2, 1802, after previously reading the communication to the president of the Massachusetts Medical Society. In spite of this, the physicians of Boston would not accept vaccination, and finally Dr. Waterhouse made a direct appeal to the Board of Health in a long letter dated May 31, 1802. A brief history of vaccination was given, and Waterhouse asked for "a public experiment performed under your own inspection." Perhaps a little to Waterhouse's surprise, the Board of Health accepted at once, and the experiment was begun in August, 1802.

On August 16, nineteen boys, whose names and addresses are given in the broadside, were vaccinated with cowpox at the office of the Board of Health. On November 9 twelve of these boys, plus one boy who had been vaccinated two

<sup>\*</sup>In 1802 the verb "to inoculate" was used for both cowpox and smallpox.

†A Prospect of Exterminating the Small Pox, Part II, etc. Cambridge, 1802.

years before, were sent to Noddle's Island in Boston Harbor, where a temporary hospital had been set up, and were directly inoculated with fresh smallpox matter. At the same time, two other boys were inoculated with the same material without having been previously vaccinated. Furthermore, on November 21 the thirteen boys who had been previously vaccinated and who had remained well, together with the other seven boys who had been vaccinated, were inoculated with "fresh matter" from the two unvaccinated boys, who had developed small-pox. The famous report of the ten physicians who, in addition to Benjamin Waterhouse, were invited to observe this experiment is printed in full in the broadside and ends with the italicized statement that the "Cow-pox is a complete security against the Small-pox." Thus a decisive experiment had been carried out, which should have fixed forever the practice of vaccination in Massachusetts. Unfortunately, the results of this splendid example of a group experiment relating to health are still ignored by some presumably intelligent individuals.

Great credit should go to the children who submitted to this procedure and to the ten physicians who assisted Waterhouse, but particular honor should be given to the twelve citizens who formed the Board of Health. These men, one from each ward, performed their duties without financial compensation. Their president, Isaiah Doane, has left a rich heritage behind him as the result of this experiment and of the fine way in which he carried out a controversial matter. The broadside, moreover, is of particular interest to the medical profession, for it gives a more extended account of the procedure than is found in the book by Waterhouse, and it lists five doctors who served on the committee who were not given due credit in this publication.

Reprinted from the New England Journal of Medicine Vol. 217, No. 13, pp. 534 - 536, Sept. 23, 1937.

