

As previously stated, during sixteen years many opportunities have presented themselves to study the question in all portions of the province in outbreaks attended with deaths rivaling any of the serious epidemics of history, as well as in others in which the mortality has been as low as any on record. The immunity to the writer has come from a primary infantile vaccination, a revaccination before the twelfth year of life, both with humanized lymph, and from subsequent revaccination—and to this fact alone is due the immunity he possesses.

During this time nearly 5,000 cases have been examined, and several hundred treated personally by the writer, and in not a single instance has the disease been seen in a person presenting a typical vaccination scar, the result of a primary vaccination within seven years of the attack of smallpox; and no instance has presented itself where the patient had ever been revaccinated—while on the other hand, in hundreds of families, the immunizing effects of vaccination have been exemplified, in perfectly protecting those vaccinated, against smallpox.

During these sixteen years I have only met with one example of a person being apparently a natural immune. Again, I have repeatedly seen the vaccinated father and mother nurse a family of unvaccinated children through weeks of smallpox, without themselves contracting the disease, even in a modified form, although that one vaccination had been made in the case of many parents more than forty years before.

In the schools of the province several instances have occurred where the pupils of a form have all been exposed for days to the infection of smallpox, and the disease has attacked only the unvaccinated scholars.

During the epidemic which prevailed some five years ago in New Ontario, chiefly amongst the shantymen, a staff of fifteen officials were exposed daily for more than two months to smallpox, but in no single instance did any of these officials, all of whom were revaccinated before engaging in the work, contract smallpox.

In one camp, which had to be quarantined owing to a case of smallpox having occurred therein, all the employees (46 in number) but one, were immediately vaccinated, the one who refused, stating he was prepared to swear he had been vaccinated, and also had suffered from smallpox, although no evidence of either could be found. Under these conditions he was allowed to pass unvaccinated. The forty-five proved immune to the disease, while the one ignorant and conscientious (?), but unscrupulous objector developed smallpox, and within the three weeks of my visit died a horrible death, an object lesson to all of the same ilk.

Notes on the Illustrations.

Smallpox.

The three illustrations are from photographs very kindly furnished by Dr. Jay F. Schamberg, Philadelphia, U.S.A., the joint author with Prof. Welch of the Work, "Acute Contagious Diseases," from which the illustrations are taken.

The pictures are so striking and show the effects of a primary vaccination in preventing smallpox in two instances and in modifying in the third that no comment thereon is necessary.