

contract the disease. In a third family, a child aged 3, though freely exposed, did not contract the disease, though not vaccinated. Two other persons, unvaccinated, though only slightly exposed to the same case, contracted the hemorrhagic form and died. The two hemorrhagic cases were contracted from a mild case of ordinary discrete smallpox. The symptoms during the initial stage of the disease were in almost every case typical. The umbilication of the vesicle, during the vesicular stage, was present without exception, though much more marked in some cases than in others.

All cases that could be called severe, with one exception, occurred in unvaccinated persons. In the Essex outbreak, many very mild cases occurred among the unvaccinated also.

Formaldehyd vapor was used in the disinfection of the clothing of seventy-three patients in eighteen houses. Soiled clothing was either burned, or soaked twenty-four hours in one in five hundred bichloride. The shortest time of exposure of clothing to the formaldehyd vapor was ten hours.

So far as known, patients dismissed have not carried the disease elsewhere.

In many cases pillows, carpets, mattresses, quilts, etc., where not soiled, were disinfected by the formaldehyd vapor only and exposure to the open air.

In many families in Essex, persons suffered from all the initial symptoms of the disease, but no rash appeared. In the only three cases where pregnancy existed, miscarriage occurred.

The shortest period of isolation was twenty-six days, the longest sixty-three days. The highest temperature noted was $106\frac{1}{2}^{\circ}$.

In eighty-seven of the eighty-nine cases the source could be traced. In two cases, not fatal, retention of urine occurred, necessitating the use of the catheter for ten days. In one case junius occurred during the pustular stage.

Though the Essex cases were very mild generally, a few were severe. The same remark applies to the Toronto Junction cases. In one case thirteen boils occurred during convalescence. One patient had an attack of typhoid fever immediately after being dismissed. The several varieties of varioloid, described by Welsh in the *American System of Medicine*, were well illustrated in the Essex cases.