

Mrs. H. had extensive membrane on right tonsil and a small patch on left with glandular swelling on right side. Next day I injected 1,000 units, the membrane spread no farther and she recovered without any trouble. This patient was nursing an infant six months old at the time and continued doing so and, though no serum was injected, it escaped the disease.

There was no albumen found in the urine of any of these three.

Other six members of the family, ranging from four to eighteen years of age, were each given an injection of 500 units as a prophylactic and all escaped the disease. While there was little doubt as to the nature of the disease from the extensive formation of false membrane, characteristic in color and general appearance, the bleeding surface underneath, glandular involvement, difficult deglutition and foetid breath, rise of temperature and albuminuria in the one case, yet I prepared a swab and sent it to Dr. Bell, Government Bacteriologist at Winnipeg, who planted it twice with negative results. This was contrary to expectations and was explained later in talking with the Doctor by the fact that the swab was prepared a short time after the spray had been used and this had prevented the growth of the bacilli in the culture medium. The Doctor further stated that he had known cases where swabs taken several hours after using a spray had failed to develop any bacilli though they were known to be present.

The serum used in treating the above cases was that prepared by Parke, Davis & Co., of Walkerville, Ontario, and their small, neat, hermetically sealed bulbs not only make it very convenient for carrying but also insure freedom from contamination. The small quantity of fluid containing the dose also saves the patient extra pain when injected.

The two points worthy of special notice in connection with these cases were, first, the immunity which the mother seemed to confer upon the infant she nursed and second, the failure to develop the bacilli in the laboratory from a swab taken after a spray had been used, showing the necessity of preparing the swab from the throat before any application is made in order to insure the test.