

brane upon the tonsils and pharynx; profound sepsis; duration of life unknown.

CASE XII.—Twenty-two years old; injected on the fourth day; membrane on the tonsils and gums; sepsis; died on the sixth day.

CASE XIII.—The well-known Brooklyn case, reported in 1895. Girl, sixteen years old, who died suddenly ten minutes after injection.

Such are the adult cases which antitoxin failed to cure. Four of them were moribund at the time of injection, no one of them living over twelve hours. Two, both sixty years old, were already crippled by previous organic disease, one of the heart, and the other of the kidneys. In the measles case there was undoubted evidence of streptococcus septicæmia. Only two of the cases were injected as early as the third day; three of them on the fifth day; and one on the ninth day. Omitting the four moribund cases the mortality of 355 adult cases treated with the serum is 2.5 per cent.

PARALYSIS.

Reliable data upon this point and those hereafter to be mentioned are to be had only from the 3,384 reports returned to the Committee. Of these paralytic sequelæ appeared in 328 cases, 9.7 per cent. Of the 2,934 cases which recovered, paralysis was present in 276, or 9.4 per cent. Of the 450 cases which died, paralysis was noted in fifty-two, or 11.4 per cent.

The variety of the paralysis and the date of injection is shown in the following table:

TABLE IV.—VARIETY OF PARALYSIS AND THE DAY OF INJECTION.

| RECOVERY CASES. | CASES | DAY OF INJECTION. | | | | | |
|--|-------|-------------------|----------|----------|----------|----------|----------|
| | | 1st Day. | 2nd Day. | 3rd Day. | 4th Day. | 5th Day. | Unknown. |
| Paralysis mentioned (variety not specified)..... | 132 | 8 | 32 | 32 | 19 | 16 | 23 |
| Throat only (aphonia, nasal voice or regurgitation)..... | 114 | 16 | 21 | 25 | 11 | 16 | 24 |
| Extremities | 14 | 3 | 5 | 2 | | 3 | 1 |
| Ocular..... | 11 | 4 | 3 | 1 | | 2 | 1 |
| General (multiple neuritis)..... | 4 | 1 | 2 | 1 | | | |
| Sternoc-mastoid..... | 1 | 1 | | | | | |
| FATAL CASES. | | | | | | | |
| Paralysis mentioned (variety not specified)..... | 9 | | 3 | 2 | 1 | 2 | 1 |
| *Cardiac, late after throat clear (in 4 of them throat also) | 32 | 1 | 2 | 8 | 9 | 8 | 4 |
| Throat only | 6 | | 2 | | | | 4 |
| General late | 4 | | 1 | | 1 | 2 | |
| Muscles of Respiration | 1 | | 1 | | | | |
| Totals | 328 | 28 | 73 | 70 | 43 | 49 | 59 |

* Cases of heart failure occurring at the height of the disease have not been included here; although they are mentioned among the cases of cardiac paralysis in the table of fatal cases.