

the phenomenon is caused by an irritable condition of the posterior nerve roots leading to spasm of the muscular fibres supplied, seems most acceptable.

Special Senses.

Eyes.—Of the symptoms referable to the eyes, strabismus was most common and occurred in (19) cases of 46 (41.9 per cent). The external rectus was affected in 13 cases (26 per cent. while the other muscles were involved in six cases. (13 per cent).

Photophobia was reported in 10 cases (21.7 per cent.) and conjunctivitis in five cases (10.8 per cent). In three of these it was purulent. The meningococcus has been isolated from the conjunctival sac. Nystagmus was present in 5 (10.8 per cent) cases and ptosis in 3 (6.5 per cent). Inflammation of the interior of the eyeball seems to have been rare.

Changes of the optic papilla were seldom noted, only three cases of neuritis or of actual atrophy are recorded.

Ears.—The only symptom reported referable to the ears was deafness which occurred in eight cases of this series. In 6 (13 per cent.) otitis media was present either double or single. Deafness in the other two cases was unexplained.

Skin Rashes.—This series presents the usual varieties of rashes, including erythema, herpes, petechiæ and purpura.

Roseola like that which occurs in typhoid, and which is described by Stillé as so frequent in the Massachusetts epidemic, did not occur in any case of this series.

Glancing over the various forms, the most striking feature is the relatively frequent occurrence of purpura. In some one of its various forms, it occurred in 15 cases (32.6 per cent.). The frequency of its occurrence varies with different epidemics. In some it is conspicuous by its absence, in others, as in the Dublin epidemic of 1866-67, it was so frequent that the name "Malignant Purpuric fever" was given it. These cutaneous hæmorrhages vary in size from that of a pin-point to a 50c piece and several may coalesce and form large discolored areas. They are most frequent on the trunk and extremities and are said to occur in the most severe cases. In our series with a total of 15 cases with cutaneous hæmorrhages 13 died; although two cases with extensive purpura recovered. The ecchymosis usually appears early in the attack but in one case came out just before death on the 66th day of the disease.

Of the varieties of skin rashes, herpes appeared in 15 cases (32.6 per cent.) in 13 of which the lips, *alæ nasi* and chin were affected, but in