

Ziem of Dantzig recorded seventeen cases in which decided toxic effects occurred simply through the instillation of the drug within the eye, and in which the amount of cocaine reaching the general system must have been very small indeed. (*Medical News*, April 9th, '87.)

Mayerhausen narrated a case of which there is an abstract in the October issue of the *Centralblatt für Gesamte Therapie*, in which less than a one per cent.—so diluted was the solution by a copious secretion of tears—caused, when instilled into the conjunctiva, headache, nausea, constriction of the throat, weakness of the tongue, impaired speech and other severe symptoms, lasting 24 hours. (*Amer. Jour. Med. Sciences*, Jan. 1886.)

Schilling records a case of severe cocaine poisoning in which, after the intragingivæ injection of two drops of a 20 per cent. solution of this drug, motion and sensation entirely disappeared. Complete amaurosis and deafness were present. The patient complained of coldness and darkness. (*Med. News*, March 6, '86.)

Mattison, in the *Med. News* of April 6, '87, mentions a paper of his own which referred to forty authorities, English, French, German, Austrian, Russian and American, and cited more than fifty cases of dangerous conditions arising from the use of this drug. In four cases it caused death. The amount of the drug used varied from a fraction of a grain to 24 grains, and was applied to the eye, ear, nose, throat, larynx, teeth, gums, stomach, bowel, bladder, uterus, urethra and under the skin. This writer noted that the following symptoms were given by these various authorities: Nausea, vomiting, headache, lividity, deafness, blindness, loss of taste and smell, profuse sweats, cold perspiration, gastric cramps; frequent, feeble, irregular, intermittent, uncountable pulse; shallow, gasping, irregular, difficult, convulsive, suspended breathing (artificial respiration required in some cases); speech, gait and swallowing greatly impaired; rigid muscles, palpitation, sense of suffocation and great constriction about the chest; loss of motion and sensation in arms and legs; intense restlessness, extreme prostration, vertigo, faintness, feeling of impending death, unconsciousness, convulsions, paralyses, hallucinations, mania, delusions, delirium—death.