

Dr. John North, Toledo, Ohio, thought the profession was very much indebted to Dr. Takamine for the preparation of this extract. He had used it from the very first, the manufacturers having sent him some samples when it was brought out. The results he had obtained with it were highly satisfactory. It enabled him to perform operations on the nose without drawing enough blood to do more than stain the instrument. Sometimes there were not more than a drop or two produced in removing a spur from the septum. As to secondary hemorrhage, it was not more apt to come on with this preparation than when the fresh gland was used. He had never had a case of severe nasal hemorrhage after using it; and in one case he had by its means arrested a hemorrhage which he had tried in vain to stop by plugging and other devices. He had also had satisfactory experience with adrenalin in the treatment of hay fever. He would like to say more about the preparation, but time did not permit.

Dr. George W. McCaskey, Fort Mayne, Ind., said his experience with adrenalin had been somewhat limited: but he had obtained good results from its internal administration. He had seen the heart drop from twenty to twenty-five beats a minute through its influence.

The Chairman (Dr. Chas. F. McGahan, Aiken, S.C.), said he had had a great deal of experience with the preparation since it came out, and so far he had not found anything in its action which did not call for extreme satisfaction. He had heard a good deal of praise of it, too, from other practitioners. There was one case of a remarkable character which he understood the doctor who had charge of it intended to write up, and therefore he would not mention his name. It was that of a patient residing in Washington who had a troublesome growth or gathering at the top of the larynx. Two of the best nose and throat physicians in Washington came to the conclusion that it was a malignant affection, and it was thought that the patient had not long to live. Under the circumstances, the physician in attendance thought there could be no harm in spraying it with adrenalin, which he did in the hope that it would afford some temporary relief. The result was that the gathering disappeared, and the patient had gone to Atlantic City and was doing well. Dr. McGahan added that he himself had used adrenalin a great deal in nose and throat work, and he could corroborate all Dr. North had said as to the bloodless character of the operations it rendered possible. His usual procedure, after he got the nose open and clear, was to put in some oily solution; and then he gave the patient a weak solution of adrenalin, 1:5,000 or 1:10,000, with which to spray himself at home. In his part of the country they did not cure all their patients with iodide of potassium, as one of the speakers in a previous discussion claimed that he did in Florida; but they always succeeded in giving their