

action of the active principle of the suprarenal gland proves its great value as a hemostatic; the tendency to hemorrhage, controllable with difficulty, being one of the drawbacks of the surgery of these organs.

For a number of years the writer has used with great satisfaction various solutions of the suprarenal extract in the removal of the septal spurs, cartilaginous outgrowths, septal deviations and hypertrophy of the turbinates, the only drawback being the difficulty of preparing fresh solutions and the danger of irritation which so frequently existed. This, however, has been overcome, adrenalin giving better results without the concomitant disadvantages. The strength used was 1-2,000, applied by means of a cotton carrier, after local anesthesia had been accomplished by a two per cent. cocaine solution.

In this manner a number of large spurs and cartilaginous growths were removed with scarcely any hemorrhage. In addition to the hemostatic action, the contractile power of the drug upon the turbinate tissues greatly enlarges the field of vision for exploratory and operative measures.

For the removal of adenoid vegetation the vault of the pharynx is sprayed by a 1-5,000 solution of adrenalin with five per cent. of chlorotone, the result being all that could be desired. Except in the case of very small children, the writer never uses a general anesthetic, thus obviating one of the grave dangers attending these operations, the obtunding action of the chlorotone being quite sufficient in the majority of cases to render them practically painless. Cocaine is occasionally used in 3 per cent. solution, applied by swab to the pharyngeal vault, where the patient is over twelve years of age.

In hay-fever, the treatment of which has been so unsatisfactory, good results have been obtained by a spray of suprarenal extract to the nose, together with the administration of pil. anti-neuralgic (Brown-Sequard), one-half strength, thrice daily; and the use of sod. salicyl. grs. v., pot. bicarb, grs. xx., in aq. menth. pip., t.i.d.

Adrenalin being so much better than the old suprarenal extract, the writer feels confident of the results which will be obtained upon its use during the hay-fever season. In tonsillectomy the gland is to be painted by a solution 1-1,000 of the chloride, or a 1-5,000 solution injected into the tonsil, which renders the removal almost bloodless. In cautery operations on the tonsil the gland melts away like cheese, no hemorrhage interfering with the heating of the point of the instrument, a fact to be greatly appreciated.