By these measures, as a general rule, the mucous membrane can be reduced to its natural state, and the tubes become again opened by their muscles. Should this not take place, the Eustachian catheter may now and then be introduced and air be gently blown through it. A modification in the shape of the Eustachian catheter, is suggested—viz., that it should be oval instead of round, the advantages derived being, that it not only can be passed through the nose with less discomfort to the patient, but its presence in the Eustachian tube is much less disagreeable from the absence of the convex surfaces which in the rounded catheter press against the nearly flat surface of the tube. In conclusion, the author expresses his concurrence in the opinion of Harvey and Kramer, that enlarged tonsils are never the cause of obstruction in the Eustachian tubes, and that any benefit that may have followed their extirpation has arisen from the loss of blood consequent upon the operation—Lucet, April 9, 1853, p. 348.

ON THE SOLUTION OF CRINARY CALCULI IN DILUTE SALINE SOLUTIONS, AT THE TEMPERATURE OF THE BODY, BY THE AID OF ELECTRICITY.

By Dr. II. Bence Jones, F.R.S. (Read before the Medical Society.)

This paper contained the record of a number of experiments made to determine whother, out of the body, urinary calculi could be dissolved by placing them in dilute solutions of nitrate of potash and other salts, aid then decomposing the solution in contact with the calculus by means of the galvanic battery. The urinary calculus was carefully dried and weighed, then fixed between the poles of a galvanic battery, after which it was inmersed in a solution of nitre, and at the end of the experiment it was re-dried and re-weighed. The loss of weight gave the effect which was pro-The different calculi which had been used were also exhibited, showing the different degrees in which the various kinds of urinary calculi are dissolved when submitted to this treatment. The conclusions at which the author arrived may be thus stated:—In a solution of nitre containing twenty grains to the ounce, kept at the temperature of the body, uric acid calculi can be dissolved by the aid of electricity, at the rate of from two to nine grains an hour. The solution takes place at the alkaline or negative pole. In the same time, and under the same circumstances, phosphatic calculi can be dissolved at the rate of from two to twenty-five grains. The solution takes place at the acid or positive pole. Calculi, consisting of oxlate of lime, proved to be far less soluble, usually not more than half a grain an hour, and at most two grains being dissolved. At the conclusion of the reading of the paper, the author stated, that he had been engaged in making further experiments with a solution of nitrate of potash containing only to grains to the ounce; and he exhibited some large uric acid and phosphatic calculi, which had been partially dissolved by the decomposition of this selftion at the surface of the calculi. He also showed a catheter, or lytholyth made by Weiss, which fulfilled the conditions requisite in an instrument for It resembled an ordieffecting the solution of urinary calculi in the body. nary lithotrite, but the blades were-1st, isolated so as to conduct the ciccuricity to the surface of the stone when it had been caught; 2ndly, the external surfaces of the blades were guarded, so that in case they came : contact with the mucous membrane no chemical action would be there set w; 3rdly, a double channel for the injection of the solution of nitre was formed inside the instrument. Lastly, the author stated, that, although many diffculties would have doubtless to be overcome before he could lay the result of his experiments within the body before the Society, still they would only The principle, which consisted in setting up be mechanical difficulties mechanical action at the spot where it was wanted, whilst elsewhere adulate neutral solution was present, left nothing further to be desired, at least to far as the solution of uric and phosphatic calculi was concerned. At present by the aid of lithotrite, mechanical force is applied to the surface of the