also continued daily, following which suction showed very little secretion from the ethmoids. The sinus secretion was considerably less after ten days of daily irrigations, but as the patient lived in a neighboring state removal of the nasal wall of the antrum was advised. A vaccine specimen was taken November 20, 1909, and the first dose was given November 26, 1909, and consisted of three hundred million of a mixed culture of staphylococcus albus and a few grams negative bacilli. The following day there was no appreciable antrum secretion and less than usual in the frontal sinus. The arm where the vaccine was injected was tender and there was slight general depression. Four days later a dose of 600,000,000 was given, which was followed by increased local tenderness and swelling at the site of the injection, and the depression was greater than before. The vaccine was given every fourth day until December 15, 1909, nineteen days after the first injection, when no more secretion was found. The patient was discharged and her family physician advised to administer the vaccine once weekly for four injections. This case is, of course, not conclusively in favor of the vaccine, as we have all seen similar cases clear up under irrigation alone, yet we must admit that the rapid healing of a case with a history of a chronic discharge was at least very unusual.

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Hexamethylenamin in Otitis, W. M. BARTON, *Jour. A. M. A.*,
March 12, 1910.

WILFRED M. BARTON reports a case in which he administered as an experiment 15 grains of urotropin in divided doses internally, to see what effect it would have on the discharge of an acute otitis media. The results as regards the therapeutic effects were good, the discharge being immediately lessened and ceasing after a repetition of the treatment. The point he specially makes, however, is that a decided reaction of hexamethylenamin was obtained from the ear discharge, showing its elimination by the aural mucosa. Whether all cases of purulent middle ear disease will be equally benefited is, of course, unsettled.