

As we consider the active treatment of a cystitis, let me urge two important factors, which serve as controls in testing progress towards recovery:

1. A careful preliminary examination and description of the local condition, as seen through the speculum, on the interior of the hollow vesical sphere. If there is any marked improvement, examinations from time to time will show it by the variations in color of the mucosa and in the extent of the lesions.

2. The taking of a measured quantity of fresh urine, say three platinum loops, spreading this on the slant agar, and then counting the colonies which grow out, as a means of testing the reduction of the amount of infection. These individual foci will often be found to diminish progressively, from countless to discrete, from, perhaps, 100 to 15, or 20 to 2 or 3, to finally none at all. Several sterile cultures ought to be secured before the case is considered free of all risk of relapse.

Let us now consider our resources in dealing with a particular case. They are: Rest and dietetic treatment, medicines by the mouth, injections into bladder, direct topical treatments of the vesical walls, surgical treatment, including incision of the bladder, and excision of the disease area.

*Rest in bed* is of the most importance. I can always do far better for a case if I can get her into my hospital, where she has rest associated with regulated diet, tonics, the due regulation of the bowels, massage, and baths.

*Medication by the Mouth.*—Large quantities of bland water is a valuable remedy here, as in pyelitis. The virtue, I think, in the various lauded waters resides in the pure *aqua potabilis* which they contain, and not in the various salts shown in the analysis. Some patients will take, however, with better grace, three or four pints daily of a water which is imported in a big bottle with a sounding name, than the simple, but equally efficacious spring water from a home source. It is the old tale of the bread pill and the placebo.

Urotropin in 5 to 10 gr. doses is of value in the more recent cases.

The citrate of potash is valuable where the urine is too acid, while boric acid is of use to correct an alkaline urine.

There is some advantage in reversing the chemical reaction of the urine under which the organisms are flourishing, though not so great as one would have anticipated.

Cantharadin has been used by Freudenberg with the greatest benefit in a series of 56 cases, curing 32 rapidly. The formula is Canth. (Merck), 0.001 in 1.0 alcohol, dissolved in 100 water. Take three or four times a day, teaspoonful doses.