

dressings. The walls of these abscesses, sometimes of enormous size, and many square feet of surface, promptly unite, and often under the first dressings.

And not less important is the change in the treatment of abscesses connected with carious bone. Abscesses in the lumbar and femoral regions, caused by caries of the spine, were once greatly feared at Bellevue.

Billroth's advice was very rigidly followed, viz: "If the abscess comes from a bone on which an operation is impossible or undesirable, do not meddle with it, but be thankful for every day it remains closed, and wait quietly until it opens, for thus there will be relatively the least danger." Now these abscesses are immediately opened and kept thoroughly cleansed, together with their sinuses, by bichloride solutions, with a marked diminution, and in some cases, a complete suppression of suppuration. In several instances of both lumbar and femoral abscess from spinal caries incisions have been freely made, the pus evacuated, and by means of the soft rubber catheter gently passed along the sinus, the carious abscess itself has been thoroughly and repeatedly cleansed and disinfected with carbolic or bichloride solutions, followed by rapid diminution and final complete cessation of suppuration. Meantime, the patients have rapidly recovered from the symptoms of blood-poisoning from which they have been suffering.

At a recent period a method of treating large abscesses and diffused collections of pus in cellular tissue by the introduction of large perforated drainage-tubes, was practised. Through these tubes the antiseptic solutions were frequently injected, with a view to irrigate the diseased surfaces and tissues. It was a most unscientific method, and was soon abandoned. Instead of it, we have the present rational practice of carefully opening all collections of pus, cleansing the cavities, removing all granulations and other diseased tissues, and closing the wound permanently. The former method often resulted most disastrously; the present never fails of complete success when properly performed.

Perhaps the most marked illustration of the great improvement in operative surgery in Bellevue, may be found in the unvarying success which attends the treatment of simple fracture of the patella by wiring together the fragments. It was eminently fitting that this operation, so novel and startling as to be received with almost universal ridicule by older surgeons, should have first been proposed by the great apostle of antiseptic surgery. By proposing and successfully executing this operation, he expressed his faith in his teachings in form more emphatic and convincing than language could. This procedure does, indeed, embody the very spirit and genius of the surgery of to-day, viz.: Boldness to audacity in the conception of an operation, and

conservatism the most absolute in the method and means employed in executing it. And yet this operation is now accepted as legitimate in Bellevue, and is of almost weekly occurrence in one or the other of its surgical divisions. And no operation, so inherently dangerous when performed according to old methods, has ever proved more successful. It has now been performed in more than a score of cases without an unfavorable result.

Though this paper was to be limited to a review of the comparative results of the ordinary surgical practices of Bellevue, formerly and now, with a brief commentary upon the means and methods employed, I cannot pass unnoticed the success which attends the practice of gynecology in that hospital. The surgery of the pelvic organs of the female is based on the same principles as those which govern the general practice of surgery in Bellevue. And the results are equally remarkable.

Septicæmia and pyæmia are almost unknown in the pavilion devoted to this branch of surgery, and recovery after operations is rapid and complete, unless the case is complicated with conditions quite beyond control. The following statistics show the great success of operations in this branch of practice at Bellevue. Dr. Wylie states that since November, 1883, he has performed laparotomy thirty times, chiefly in the Marquand and Sturgis pavilions, with five deaths. Of the cases proving fatal, two were hysterectomies, one for cancer of the uterus, and the other for a myoma weighing fifty pounds; two were cases of pelvic abscess, complicated with purulent collections in the fallopian tubes. All of the cases of ovarian cysts recovered.

In reviewing the surgical practice of Bellevue, it is not difficult to determine the essential feature of the present methods as compared with those of the past. Cleanliness is the one great object sought to be attained in all operations. Whatever may be the final conclusion of scientific students as to the cause of putrefaction in wounds, practically it is determined that the surgeon may, with the most absolute certainty, protect an ordinary open wound from suppuration. To effect this object he finds that he has simply to resort to those measures which are known to secure perfect cleanliness of the wound. The agents now relied upon and found efficient are: 1. Soap and water to external parts. 2. Carbolic solutions for the instruments. 3. Bichloride solutions to all surfaces and tissues. 4. Iodoform for external dressings. We may summarize the conditions regarded as essential to success as follows, viz.: *A clean operator; clean assistants; a clean patient; clean instruments; clean dressings.*—*Med. Record.*

OXIDE OF ZINC, according to Prof. Peterson, of Kiel, is just as good as iodoform in the treatment of wounds, is not poisonous, is cheaper, and does not smell offensively.