

Normal saline 100 cc.

For regional anaesthesia :—

"Cocain .1 gramme or Novocain .5 gramme

Adrenaline 5 drops of a 1-1000 sol.

Normal saline 25 cc.

Good syringes are hard to get and difficult to keep in order but they are essential to success.

Just a few words about the changed technique brought about by the improved solution. The diffusability of the weaker solution is great enough to permeate the smaller cutaneous nerve trunks situated in the subcutaneous tissues, consequently the injections are made subcutaneously. The older solutions of Schleick and Recluse did not permeate these nerve trunks and consequently the much more tedious and more difficult method of intracutaneous injections had to be resorted to to anaesthetize the nerve endings. Let me describe the method by taking a case of tumor situated in the muscles of the thigh. A long needle is pushed through the skin and slowly advanced to the deepest part of the tumor. During the advance of the needle the fluid is injected. In a similar way the whole tumor is treated from all sides. In this way an inverted pyramid, with apex at the deepest part of the tumor, and base at the unanaesthetized skin is produced consisting of anesthetized tissue. To render the skin anaesthetic, the needle is inserted about one inch from the middle of the future line of incision and the subcutaneous tissue injected, the direction of the needle describing a rhombus with the future incision in the centre. Now comes the hardest part of the whole procedure in the form of a fifteen minute's wait, before the first incision is made. These fifteen minutes must be by the watch and not approximate. After the expiration of this time and for one hour afterwards, the whole area to the deepest part injected will be absolutely devoid of sensation no matter what is done; except in some instances the sensation of touch remains. If inflamed areas are to be incised, the injection is made in healthy, tissue surrounding the inflamed area. If bone is included in the field of operation, the fluid is deposited as close as possible to the periosteum and the usual time allowed to lapse. If the injection is properly carried out, the anaesthesia is perfect. The