

Transfusion has been recommended in pleurisy with effusion especially when the secretion of urine is sluggish, in diphtheria, in enterocolitis, in children where there is an enormous drain in the fluids of the body, and in poisoning especially by the alkaloids.

APPARATUS.

The simplest and best instrument for such work is the one I am about to describe. Any man can put it together at an expense of about seventy-five cents, in about ten minutes time. The advantages that are claimed for such an instrument are : that the entire instrument can be sterilized, it has nothing connected with it that can possibly get out of order, it is cheap and it does its work as efficiently as the more complicated and costly ones. An experience with it in some forty cases has led me to believe that it is absolutely safe in every respect.

The component parts necessary to make such an instrument are : an eight ounce glass funnel, six feet of rubber tubing, and a canula. These parts are connected together and the apparatus is complete.

The canula used may be either sharp or blunt. While the sharp one may be more easily inserted into a small slit in a vein, it has the disadvantage that it is much easier to get between the coats of the vein. Pure gum rubber in the tubing is preferable, because it will stand the frequent sterilization better. The funnel is an ordinary glass one. The apparatus is placed in a tin pail which contains sufficient plain water to cover it. The lid is then placed on the pail and the apparatus sterilized by boiling for twenty minutes. The whole is then set aside ready for use.

The salt solution is prepared by making a 7-10 of 1 per cent. solution of chemically pure sodium chloride in water (preferably soft.) This is filtered into a glass container and boiled for fifteen minutes, and the mouth of the container plugged. Florence flasks with a capacity of one quart are the most suitable for containers. It is well to have at least three such flasks filled with solution ready for use. When required for use, two of these are placed in a pan of water, the pan