

714 TREATMENT OF VASCULAR BIRTH-SPOTS.

treatment of the vascular birth-spots commonly called "wine stains." Here are given as accurately as possible the conclusions on our study of this subject, which we have the honor of submitting to-day to the Academy. The photographs painted in water-color which you have in your hands, and which I give here, represent different hospital types brought up in the series which we have studied. They show types varying from the flat surface wine stain on a level with the skin, to the stain extending in length even to covering a whole cheek, or projecting to the point of forming a genuine angiomatous erectile tumor. The therapeutic results which you see in the corresponding photographs have been obtained by a very simple manner of operating, that is by the direct application of the appliances to the stain. These appliances are flat, and the radium salt is fixed to their surface by a varnish. The rays which filter through the varnish vary in power according to the quantity and the activity of the salt incorporated, and according to the thickness of the varnish. This filtered, so-called exterior radiation, being known and analysed by special electrosopes, the only thing that remains for the profession to know is how much time is necessary for such and such power of exterior radiation to be applied to such and such variety of stain to determine the necessary and sufficient therapeutic reaction. Here is an example of a very powerful apparatus containing twenty centigrams of salt with 500,000 activity. Its exterior radiation is 300,000, and consists of five per cent. of Alpha rays, and 85 per cent. of Bêta rays, and 10 per cent. of Gamma rays. Applied for one or two minutes every two or three days, it acts without exciting visible reaction. Half-an-hour's application at a time produces exulceration. And thus you may class and catalogue the power of all the appliances that you use.

For the flat, shallow birth-spots it is sufficient to produce a slightly exulcerative reaction, but for those which are deeper it is necessary to use stronger measures. On the contrary, for those which protrude you may use applications of radium in small quantities (repeating them often), which do their work without exciting visible reaction. Thus was treated the large tumor erectile in the middle forehead of the baby whose photograph is in your hands. This lesion, whose projection was two centimeters on two centimeters of base, was directed to us by Dr. Gastou about the month of March. Now it is quite obliterated and is quite colorless, and we never urged it to exulceration.