

Epithelioma of the larynx ought to be treated by the filtered radiations in every case. In the intrinsic form the delay of a month or six weeks, which is needed to see if there is improvement, will do no harm, as the disease spreads very slowly, while, in the extrinsic form, anything ought to be tried to avoid the operation of laryngectomy, which leaves the patient considerably crippled. This disease is treated from outside, and, except in very stout patients, one can get within a few millimetres of the growth. Until recently I have only had one case of this disease—a patient in whom a tracheotomy had been performed about a year before, and in whom the growth was so large that it was pressing on the esophagus, so that he could only take food through a nasal tube. Within forty-eight hours he was able to swallow. He died of toxemia a month after, but the power of swallowing remained until the end.

Epithelioma of the skin is suitable for treatment, even if rapidly growing. If ulcerated, one can give very large doses to the ulcerated portion without fear of damage: for instance, using my apparatus with 1 mm. of lead,  $\frac{1}{2}$  mm. of silver, and 2 mm. of indiarubber, I should not hesitate to give a dose of forty-eight hours to an ulcerated epithelioma, though the dose to a healthy skin is only thirteen to fifteen hours.

#### CARCINOMA.

To deal with the most common form—carcinoma of the breast—an inoperable case of this is often suitable for treatment. I have seen disappearance and diminution of nodules of this nature, and have seen a case where pain from pressure on the nerves supplying the arm was completely relieved after forty-eight hours from the first treatment. Owing to the frequency of mediastinal involvement, it is necessary to obtain instantaneous radiograms to show the extent of this. If one decides to treat such a case with radium, esophageal applications are made (using 1 mm. of lead at least), the tube which the patient is made to swallow being got into position by paying out a silk thread to which it is attached, while she is examined with the X-rays until the active part of the tube, the lower end, comes into the centre of the mediastinal mass. If there are only discrete glands which cannot be seen on the screen, the distance is determined on the skiagram in relation to the aortic arch, and the radium then passed to the correct distance. The very slow growing mammary carcinomata may sometimes be treated by the radiations without operation. Yet they will not always respond, and occasionally the rapidly-growing ones will. I cannot yet understand the reason of this. After every operation for carcinoma of the