

lead, the exposure varying from six to twelve hours duration, spread over a period of several days. The retrogression is brought about quickly with little or no scarring results. Ulcerating epitheliomata without much subjacent infiltration treatment with unscreened apparatus. Ulcerating epitheliomata with much infiltration require prolonged treatment with heavily screened applicators.

Epitheliomata of the mucous membrane of the tongue, buccal gingival and pharyngeal surfaces are almost uniformly disappointing in their results. Temporary improvement is often seen.

*Carcinoma of the uterus.*—In cases of inoperable malignant disease in this locality radium will often bring about results which cannot be obtained by any other known method of treatment. The hemorrhage is arrested, the discharge diminished in amount and rendered inoffensive in character, the ulceration is healed and the pain greatly relieved. The rate of growth is checked and sometimes completely arrested.

*Carcinoma of the rectum and alimentary canal.*—Radium therapy not infrequently proves of considerable value in the treatment of these carcinomata, but it is extremely difficult to say what are the factors which determine or contribute to the success of the treatment. Speaking in general terms the application of radium results in the arrest of hemorrhage, the healing, of any ulcerated surface, a diminution of the discharge, less pain and a retardation of the rate of progress.

*Carcinoma of the Stomach.*—A few inoperable cases of cancer of the stomach have been treated by radium, not in the hope of cure, but with the object of checking the growth and alleviating the symptoms. Some slight degree of benefit has been obtained from the application of powerful apparatus screened with 2mm. of lead over the gastric region, the pain being lessened, the frequency of vomiting decreased and the general health improved.

*Carcinoma of the Breast.*—The results of radium therapy are on the whole encouraging and this is especially the case when the primary growth is of the sclerotic rather than of the medullary type, when the secondary deposits occur in the skin lymphatics and there is no internal metastases.

*Paget's Disease.*—Two cases, cure in one, improvement in the other.

*Rodent Ulcer.*—This is of all forms of malignant disease the most amenable to radium treatment. Untreated rodent ulcers not exceeding 2cm. in diameter and not affecting mucous membrane cartilage or bone almost invariably yield to one exposure of an hour's duration with a full strength applicator unscreened.

*Sarcomata.*—Whenever possible, sarcomata are best treated by the insertion into their centre of a tube containing 50 to 100 mg. of radium, with a screen of 0.5 to 1mm. It is left in position twenty to thirty