

necrosis or necrobiosis. The connective tissue cells are mobilized and also leucocytic infiltration supervenes, due to the trophic phenomena stimulated, the connective tissue becomes vascularized in the usual way, not by a mere inflammatory repair, but by a true trophic stimulus which expresses itself in a definite form of connective tissue, with fibres parallel to the surface radiated.

On close perusal of the current and past literature we find meagre reports. On similar studies, however, Dominici and Barcat¹ experimentally produced radium burns and which on healing they showed to be composed of fibroblasts and connective tissue bundles parallel to each other and parallel to the surface of the skin. They found that the fixed cells became rarified, the chromoplasm of the parenchymal cell disappeared and becomes changed into hyaloplasm, the connective tissue bundles separating and the fibro blasts thickening.

Thus they also discovered that those portions of the tissue which had been subjected to radium become essentially differentiated from those not affected, by the alteration and regular direction of the connective tissue bundles.

Their texture is somewhat analagous to a flat fibroma with connective tissue bundles arranged in regular manner.

Degrais and Anslem Bellot², in a recent article, pointed out that when epitheliomatous cells are exposed to radium there is a hypertrophy of the nucleus and degeneration of the protoplasm, and a certain amount of keratinization takes place. At later dates, 20 days or so after radiation, these epitheliomatous masses become transformed into keratinized debris. The formed elements break up and disintegrate; young fibroblasts and connective tissue cells, lymphatic cells and polymorphonuclear cells infiltrate the growth and carry on a phagocytic function, and meanwhile cicatrization occurs at the expense of the hyperplastic and regenerated stroma of the tumor.

In the Freiburg Clinic, Ashoff, Kronig and Gauss³ obtained results similar to these. Kronig and Gauss⁴ also report the disappearance of myomata by means of radiation of mesothorium. In a recent number of *Progressive Medicine*, a review of the article by Gauss⁵ shows ten pieces of tissue excised from time to time during the course of treatment; these revealed such striking changes as in some instances to lead to a suspicion of a mixing of the specimens, so wonderful are the changes. For instance, one tissue at the beginning shows an adeno-carcinoma. Two weeks later it shows connective tissue and cancer nests. Three weeks later it shows benign tissue with epithelial debris.