

carefully staunched. So, therefore, a doctor possessing the type of external irradiation of which I have just spoken, will be able to produce the cure spoken of. If he does not possess this exact irradiation, he can come near it by increasing the length of the application several hours or lessening it, according as he possesses a weaker or stronger irradiation. To obtain an irradiation approaching the type which I have given, it is sufficient to possess an apparatus round, flat, two centimeters in diameter, and containing 0.02 of radium of initial activity 500,000. With radium of 100,000 activity, applications five to seven times longer in length would be necessary.

VII. How do the tissues behave under the influence of these irradiations? This is what happens in the course of treatment:

First of all, the crust which existed and the bleeding characteristic of epithelioma, do not appear again after the second or third day, that is to say, after the second or third application. Then about the seventh or tenth day you see the inside of the ulcer fill up, taking on a flesh color of good quality. About the eighth or tenth day after the cessation of the applications the destructive reaction sought after takes place. The lesion becomes hollow again; it suppurates, and is covered again by a crust. The lesion in this ulcerous condition is very different from the epitheliomatous ulcer. The suppuration in it is more abundant; the crust is slightly yellowish, as if impetiginous. If you draw it back you notice that the underlying tissues do not bleed.

Gradually this hollow therapeutic ulcer dries up and fills up anew—the work of healing evolving itself. Finally between 35 and 45 days after the cessation of the applications the scab falls off positively and lets the completed scar be seen. This becomes modified in the month which follows, and ends by being really esthetic, flexible, fine, smooth, on a level with the skin, and slightly white. Such is the process of evolution left to itself, but you can gain about ten days by local attentions. When the suppuration is abundant, the crust is raised and washed with Alibour's solution of three sulphates.

You can clean, wash, pulverize each day, but I do not advise investigation even to avoid scabby reappearances. After having once or twice proceeded with the cleaning mentioned, I allow each scab to form again. This forms a screen, takes the place of dressing, and does away with any pain, while the fresh wound is at times painful and necessitates careful dressing. Of course this is only an example taken as a type, and according to it a doctor may be guided in other cases of epithelioma and other lesions.