

Dr. Graham Chambers asked, "Did you state that cancer cells return to normal?" Dr. Abbe said he did not mean that. "There is a reticulum that holds the normal cells together. We cannot see it, but in these cases that return to normal this reticulum must be there. In many of the tumors one has the feeling while working at it that there is a return to the normal line of growth of many of the cells composing these tumors. A papilloma under treatment is a good illustration of this. There there is a return to the normal line, but this is about as far as our knowledge here will take us. I began to see cases where I thought radium stimulated growth and then tried experiments with oats in different ways. One experiment was, that I took a piece of wood and split it into twenty layers, then laid some oats on each layer and put a radium plaque over them. Each quantity of oats was a little more distant from the radium. Then I took the seeds out and planted them carefully in rows. The findings in this experiment were the two rows nearest the plaque were killed, the three layers next were stunted, and the next four layers were very much stimulated. These last layers were distant from the plaque one to one and a half inches. Then came another confusing series. The rows of oats began to grow more and more poorly until the nineteenth row, which was affected most. Speaking of this to Madam Curie last summer she thought it was owing to the different action of the gamma and beta rays. There was here shown the losing effect from the beta rays and the gaining effect of the gamma rays. The conclusion here is that the alpha rays go a short distance, one-half inch, the beta rays go one and a quarter inches, and the gamma rays go any distance."

To illustrate the different kind of tumors one may deal with, Dr. Abbe used his lantern slides and showed the following pictures of cases:

PAPILLOMATA.

A case of warts on the lips. Radium was applied fifteen minutes and the warts disappeared like smoke and never came back; warts on the eyelid were treated in the same way and disappeared completely.

Photographs of warts on the soles of the feet. Treatment and results equally good. Dr. Abbe had seen twenty cases of this sort, and all were cured completely. He had had two cases lately where the middle toe was to be cut off, and radium applied for half an hour resulted in a perfect cure. In these cases the reaction does not take place for a week or ten days, then during