

An Experience That Demonstrates My Interest And Commitment To The Radiologic Sciences

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Personal Motivation and Commitment to Radiologic Science

For the commitment and enthusiasm in a specific field in which one doesn't have any interest, there is a need for motivation. Motivation can be in any way, positive or negative. Or it can be through server incidents happening around the person who is being motivated. Similarly, my interest and commitment to the Radiologic Sciences developed with the death of my father, who was suffering from cancer. After his death, I decided to devote the rest of my life to the field of Radiologic Sciences because it was the only way through which I can have the ability to help others or maybe save the life of someone. (American Registry of Radiologic Technologists, n.d.)

There is a lot of importance in Radiologic Sciences, which no one can deny. The involvement of radiologic science is not only in a single file; it is vast and also involved in looking after radiologic equipment that is essential for the procedure of treatment. Being a radiologic science professional, one can select two main fields related to that, which can be called or known as the X-ray technician (X-ray tech) or the radiologic technician (RT). In both cases, the person knows Radiologic Sciences, and it includes the best ways to treat cancer patients.

In the case of cancer, it is essential to have a command of radiological science because it uses the advanced form of X-rays for treatment. These rays are used by technologies in numerous fields like medical examination, diagnosis, and treatment. There could be specialization in multiple areas if someone knows a radiologic technician or radiologist. After the death of my father, I also decided to specialize in one of the fields of radiology, and I selected that specific one that is used in the treatment of cancer. (U.S. Bureau of Labor Statistics, 2025)

Radiation Therapy and the Treatment of Cancer

Cancer therapy, also known as radiation oncology, can be done with the help of radiation therapy. When my father was in the hospital, I was doing a house job at that time, and I was not able to do anything for him in the form of treatment. At that time, I decided to do my specialization in radiation therapy and started doing therapy for cancer patients. However, it was a very tough time for me

initially to determine that my family helped me a lot throughout this procedure. Today, I have command of this field, and my full commitment is to radiation therapy.

The question is, what do we do in radiation therapy? The radiation used in the whole procedure, and these radiations are not the ordinary ones; high-energy radiations are being used in this procedure. These high-energy radiations are helpful to kill or damage the DNA of cancer cells. Sometimes, these radiations utterly destroy the cells or sometimes suppress the division or growth of cancer cells. When my father was suffering from cancer, I wasn't able to use the machinery at all because its handling was terrible.

The rays are delivered by machines called accelerators or sometimes through the radioactive sources that are located or positioned inside the patient on a temporary or long-lasting basis. Cancer is a very painful disease, and the treatment is also harrowing, but radiation therapy is helpful in reducing the level of pain and explicit suffering in patients who have advanced types of cancer. The treatment used on my father was painful compared to those which I'm using while treating patients.

Clinical Accuracy, Patient Safety, and Professional Purpose

During the treatment of cancer, the standard cells are also destroyed while damaging the other ones. However, the radiotherapy is prepared in such a way that no conventional cell will be destroyed while targeting the cancer cells. Its focus is only on the cancer cells rather than the normal ones. When the treatment of my father was at its peak, doctors told me that healthy cells are also destroyed because of radiation, and all these things were in my mind while choosing my field of specialization.

There are some imaging tests that are helpful in determining the particular shape as well as the location of the tumor that causes cancer. These tests are beneficial in revealing the defined boundaries of cancer cells so that the normal ones will not be destroyed during treatment. As a doctor, I am responsible for giving specific instructions based on the kind of exam that will be performed. There are categories of patients by which the treatment decision. Some patients with cancer may be treated with the help of radiation only instead, and surgery is not used for this purpose. Two main categories of cancer, including prostate cancer as well as larynx cancer, are frequently treated in this way. (U.S. Food and Drug Administration, n.d.)

These things were not done to my father, and now I take it positively so that other patients will not suffer any difficulty during treatment. So, all these things are motivational for me for the radiologic sciences, specifically my field of specialization, which is radiation therapy. There must be a goal in life, and you should not waste time while deciding your purpose because it can be helpful in your entire life. Sooner or later, it will help you in your life. My choice of doing MMBS was late, and that's why I wasn't able to help my father during his hard time. But today, I take that as motivation and give my commitment to the radiologic sciences.

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