Open Access



Radiation therapy is a treatment for cancer and, less commonly, thyroid disease, blood disorders, and noncancerous growths.

therapy is a high-energy type known as ionizing radiation. Scientists still do not know exactly how radiation works as a treatment for cancer. ey do know, however, that it breaks up the DNA of cancer cells in a way that disrupts their growth and division. In this way, radiation can kill cancer cells, preventing or slowing the spread of the disease.doctor prescribes radiation therapy alone, but usually, they recommend it in combination with other treatments, such as chemotherapy, surgery, or both. Radiation can a ect healthy cells as well as cancerous ones. When this happens, a person experiences side e ects.Speci c side e ects depend on factors such as:the area receiving treatment, the person's overall health the type and doses of radiationLong term side e ects also depend on the treatment ey include:heart or lung problems, if radiation a ects site. the chest, thyroid problems, leading to hormonal changes, if radiation a ects the neck area, lymphedema, which involves lymph uid building up and causing pain, hormonal changes, including a possibility of early menopause, from radiation in the pelvic area. ere is a slight chance that high doses of radiation in certain areas can increase the risk of another form of cancer developingRadiation therapy is a treatment for cancer and, less commonly, thyroid disease, blood disorders, and noncancerous growths.A doctor may recommend radiation for cancer at di erent stages. In the early stages, radiation therapy can help reduce the size of a tumor before surgery or kill remaining cancer cells a erward. In the later stages, it may help relieve pain as part of palliative care. One form of radiation treatment involves using a machine that produces a beam of radiation. e beamtargets a speci c area of the body. Another type involves putting a radioactive substance inside the body, either permanently or

of the disease. Sometimes a doctor prescribes radiation therapy alone, but usually, they recommend it in combination with other treatments, such as chemotherapy, surgery, or both. ere are many types of cancer. Radiation can a ect healthy cells as well as cancerous ones. When this happens, a person experiences side e ects. Speci c side e ects depend on factors such as: the area receiving treatment, the person's overall health, the type and doses of radiationShort term side e ects radiation therapy include fatigue, skin changes, and nausea.Short term side e ects vary, depending on the part of the body receiving radiation. ey can include: fatigue, hair loss, diarrhea, skin changes, nausea and vomitingA 2018 study published in BMJ Open recommends screening for anxiety and depression in people undergoing radiation therapy and o ering counseling services to those who may bene t from them.Long term side e ects also depend on the treatment site. ey include:heart or lung problems, if radiation a ects the chest, thyroid problems, leading to hormonal changes, if radiation a ects the neck area, lymphedema, which involves lymph uid building up and causing pain, hormonal changes, including a possibility of early menopause, from radiation in the

their quality of life. It may also extend a person's life, in some