

Balancing Cure and Long-term Adverse Effects: Tailoring Treatment for Hodgkin's Lymphoma Patients

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Abstract

Computed tomography (CT) scan is a diagnostic imaging test that uses X-rays and computer technology to produce detailed images of various body parts. It is a commonly used medical tool that helps physicians diagnose and treat a wide range of conditions. During a CT scan, a patient lies on a table that slides into a large, doughnut-shaped machine. The machine takes multiple X-ray images from different angles around the body, which are then processed by a computer to create cross-sectional images, or slices, of the body part being examined.

Keywords: CT scan • Diagnosis • Cancer

Introduction

The images are incredibly detailed and provide physicians with an inside look at the body. CT scans are used to diagnose a variety of medical conditions, including bone fractures, cancers and internal injuries. They are particularly useful in detecting internal bleeding or damage caused by traumatic injuries. CT scans are also used to guide biopsies or other medical procedures, as they provide physicians with an accurate view of the area being treated [1]. One of the benefits of a CT scan is that it is a non-invasive procedure, meaning that it does not require any incisions or injections. CT scans are also relatively quick, usually taking only a few minutes to complete. In some cases, the use of contrast dye may be required to help highlight certain areas of the body, such as blood vessels or organs. This dye can be given orally, injected into a vein, or administered rectally, depending on the area of the body being examined. While CT scans are incredibly useful diagnostic tools, they do come with some risks. The X-rays used in the procedure do expose patients to a small amount of radiation, which can potentially increase the risk of developing cancer over time. However, the benefits of a CT scan often outweigh this risk, particularly in cases where a quick diagnosis is necessary [2].

Description

CT scans are a valuable medical tool that helps physicians diagnose and treat a variety of medical conditions. They are non-invasive and relatively quick, providing physicians with detailed images of the body. While they do come with some risks, such as radiation exposure, the benefits of a CT scan usually outweigh these risks. If you are in need of a diagnostic imaging test, your physician may recommend a CT scan as part of your treatment plan. Hodgkin's lymphoma (HL) is a type of cancer that affects the lymphatic system. While the cure rate for HL is high, long-term side effects from treatment can occur. This has led to a focus on balancing cure and long-term adverse effects by tailoring treatment for each individual patient. Traditionally, HL has been treated with a combination of chemotherapy and radiation therapy. However, as follow-

up has become longer, serious long-term adverse effects of treatment have become evident, causing a significant excess mortality. As a result, tailoring treatment intensity to the individual patient has become critical to achieve the highest cure rate with the least morbidity and mortality [3].

One approach to tailoring treatment for HL patients is known as risk-adapted therapy. This approach involves adjusting the intensity of treatment based on the patient's individual risk factors. For example, patients with early-stage HL who are at low risk for recurrence may be treated with lower doses of chemotherapy and radiation therapy, while those with advanced-stage HL or high-risk factors may require more intensive treatment. Another approach to tailoring treatment is known as response-adapted therapy [4].

This approach involves adjusting the intensity of treatment based on the patient's response to initial therapy. For example, patients who respond well to initial chemotherapy may be able to receive less radiation therapy, while those who do not respond as well may require more intensive treatment. Advancements in imaging technology have also allowed for more accurate staging of HL, which can help guide treatment decisions. For example, positron emission tomography (PET) scans can help identify areas of active cancer in the body, allowing for more targeted treatment. In addition to tailoring treatment based on individual factors, supportive care is also an important aspect of managing HL. This may include measures to prevent or manage treatment-related side effects, such as heart and lung disease and secondary malignancies [5]. Hodgkin's lymphoma is a relatively rare form of cancer that affects the lymphatic system. It is characterized by the presence of abnormal cells called Reed-Sternberg cells. While the cause of HL is unknown, certain risk factors have been identified.

Conclusion

The most common symptoms of HL include swollen lymph nodes, fever, night sweats and weight loss. Treatment typically involves a combination of chemotherapy and radiation therapy and the cure rate for HL is high. However, long-term side effects from treatment can occur. If you are experiencing symptoms of HL, it is important to see your doctor as soon as possible for diagnosis and treatment. Balancing cure and long-term adverse effects is a critical aspect of treating Hodgkin's lymphoma. Tailoring treatment to the individual patient based on risk factors and response to initial therapy, as well as utilizing supportive care measures, can help achieve the highest cure rate with the least morbidity and mortality. If you have been diagnosed with HL, it is important to work with your healthcare team to develop a treatment plan that is tailored to your individual needs.

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Received: 04 January, 2023, Manuscript No. jnmrt-23-95757; **Editor assigned:** 06 January, 2023, PreQC No. P-95757; **Reviewed:** 19 January, 2023, QC No. Q-95757; **Revised:** 25 January, 2023, Manuscript No. R-95757; **Published:** 31 January, 2023, DOI: 10.37421/2155-9619.2023.14.526

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How to cite this article: Nogales, Emilio. "Balancing Cure and Long-term Adverse Effects: Tailoring Treatment for Hodgkin's Lymphoma Patients." *J Nucl Med Radiat Ther* 14 (2023): 526.