

Radiotherapy after chemo may improve survival in patients with advanced Hodgkin's lymphoma

April 29 2019

Patients with advanced Hodgkin's lymphoma who have large tumours at the time of diagnosis may benefit from radiotherapy after chemotherapy even when all traces of the cancer appear to have gone, according to late breaking results presented at the ESTRO 38 conference today.

Approximately 65-70% of [patients](#) with advanced stage Hodgkin's lymphoma can be cured by receiving six cycles of ABVD chemotherapy (which includes doxorubicin, bleomycin, vinblastine and dacarbazine), with or without subsequent radiotherapy. Currently, however, the addition of radiotherapy is controversial.

In a statement before the conference, Dr. Mario Levis, a co-author of the study, who is a radiation oncologist at the University of Turin, Italy, explained: "These patients can often have four or five decades of life expectancy ahead of them but, given this cure rate, the [cancer treatment](#) can result in a high risk of complications for many long-term survivors. For this reason, it's important that we give patients the most [effective treatment](#) for curing their cancer, while, at the same time, trying to keep the toxic side effects to a minimum."

To investigate whether radiotherapy after ABVD chemotherapy provided any benefit to these patients, researchers in several centres in Italy, led by Professor Pier Luigi Zinzani, of the Institute of Haematology at the University of Bologna, and Professor Umberto

Ricardi, head of the Department of Oncology at the University of Turin and President of ESTRO, recruited 512 patients between 2008 and 2013 to a randomised clinical trial: HD0801.

Patients who had been treated successfully in the earlier, phase II part of the trial, and in whom PET scans showed no trace of cancer both during and at the end of chemotherapy, were randomised to the phase III part of the trial to receive either radiotherapy in order to mop up any remaining cancer cells, or no further treatment.

In total, 354 patients had PET scans showing they were clear of cancer after the initial treatment. Of these, 116 (32.7%) had had large lesions (greater than 5cm in diameter) at the time of their diagnosis and they were assigned to radiotherapy or no further treatment.

Dr. Levis and Prof Ricardi found that more patients were alive three and five years later without their disease getting worse (known as [progression-free survival](#)) if they had been treated with radiotherapy than those who did not receive it.

Professor Ricardi told the conference: "We found that three years later 92% of patients who received radiotherapy were still alive without [disease progression](#) compared to 82% of patients who did not receive it. After five years, these figures were 89% and 82% respectively.

"This suggests that patients with large tumours, who have responded to six cycles of ABVD chemotherapy, may still benefit from the addition of radiotherapy, with a survival benefit ranging from 7% to 10% at three and five years.

"This is something that should be considered carefully when deciding whether or not to give radiotherapy to these patients. The omission of radiotherapy would guarantee the prevention of radiation-induced toxic

side effects, but, on the other hand, it exposes 10% of our, frequently young, patients to an increased risk of relapse and of even higher toxicity due to the heavy salvage therapies required when the disease returns."

Nine patients who had been enrolled in the radiotherapy arm of the trial did not actually receive radiation treatment due to decisions made by their doctors, and the disease returned in five of them. This meant that when the data on the 116 patients were analysed according to "intention to treat" (i.e. regardless of whether or not they had actually received the radiotherapy), there was little difference between the two groups in progression free survival at three and five years. It was only when the researchers analysed the data according to the treatments the patients had actually received (a "per protocol" analysis) that it was possible to see the benefit on survival for those treated with radiotherapy, although this was not statistically significant. This was mainly because of the small number of patients in whom the disease returned: five in the radiotherapy arm and 13 in the 'no further treatment' arm of the trial.

"The results of this trial do not provide definitive evidence on the role of radiotherapy after chemotherapy for patients with advanced Hodgkin's lymphoma and large tumours. However, the improvement in survival among those who did receive [radiotherapy](#) is not negligible. We think that the next step is for a meta-analysis of this and similar randomised [trials](#) in order to increase the robustness of the information we have on the best way to treat this disease," concluded Prof Ricardi.

Professor Yolande Lievens, past-President of ESTRO and head of the department of radiation oncology at Ghent University Hospital, Belgium, said: "As physicians our main aim is to treat our patients effectively while keeping any adverse side-effects from the treatment to the minimum. This is especially important for patients with a disease such as Hodgkin's lymphoma, many of whom can expect to be cured and live long after their treatment has finished. The results from this trial provide

us with additional, [important information](#) to take into account when advising our patients on what might be the best [treatment](#)."

More information: Abstract no: OC-0502, Role of consolidation RT to bulky lesions of advanced Hodgkin lymphoma: results of FIL HD0801 trial.

Provided by European Society for Radiotherapy and Oncology

Citation: Radiotherapy after chemo may improve survival in patients with advanced Hodgkin's lymphoma (2019, April 29) retrieved 22 June 2024 from <https://medicalxpress.com/news/2019-04-radiotherapy-chemo-survival-patients-advanced.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.