



## PET Tomo Helps Hodgkin Lymphoma Patients Avoid Chemo



Research on 1,200 patients in the UK, European and Australia has found that the use of positron emission tomography (PET) scans can spare patients with advanced Hodgkin lymphoma the serious side effects of chemotherapy.

The study, led by [Peter Johnson](#), Professor of Medical Oncology at the University of Southampton, and published in the [New England Journal of Medicine](#), showed that those who had a clear PET scan were split into two groups – one group continued with chemotherapy including the drug bleomycin and the other had chemotherapy without the drug.

The study found that after they had been given two cycles of standard chemotherapy, patients who stopped having bleomycin had the same survival rates as those who continued it.

But, importantly, they were spared ~~Patients effects~~ the trial who did not have a of chemotherapy, suggesting they had a more resistant form of the disease, were given more intense chemotherapy treatment.

The three year progression-free survival rate for chemotherapy without bleomycin was 84.4 per cent. Three year progression-free survival for chemotherapy with bleomycin was 85.7 per cent.

Bleomycin has been an important drug to treat Hodgkin lymphoma for 30 years, but it has a potential risk of severe effects on the lungs, with the risk of scarring, even years later, that can lead to serious breathing problems.

Due to these risks the researchers, funded by Cancer Research UK and international partners in Europe and Australasia, wanted to explore the potential of adapting treatment by stopping bleomycin for patients with a

good outlook and escalating treatment only for those at highest risk of the treatment not working.

“The majority of people diagnosed with Hodgkin lymphoma can be cured – in this trial more than 95 per cent of patients are alive after three years,” said Prof. Johnson, Cancer Research UK’s chief clinician based at the University of Southampton.

“But we worry about the long-term side effects from the treatments we use. As we’ve done in this trial, personalising treatment based on how well it works is a major development for patients with Hodgkin lymphoma, and sets a new standard of care.

“Knowing which patients have a more difficult to treat form of the disease means we can select those who need stronger chemotherapy, while sparing everyone else the severe side effects such as infertility. This approach, along with a reduction in the need for radiotherapy, should substantially reduce damage to healthy tissues and the risk of second cancers caused by treatments.”

Dr Sally Barrington, clinical lead of the UK National Cancer Research Institute PET lab at Guy’s and St Thomas NHS Foundation Trust, London said: “We have made a big investment in developing and using PET scans to select the best treatments for our patients in the UK, and this trial conducted in seven different countries is a great example of how we can work together to help patients have healthier lives beyond cancer.”

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