Randomised phase III study on the effect of early intensification of rituximab in combination with two-weekly cyclophosphamide, doxorubicin, vincristine and prednisone (CHOP) chemotherapy followed by rituximab maintenance in elderly patients (66 to 80 years) with diffuse large B-cell lymphoma

Submission date	<b>Recruitment status</b> No longer recruiting	<ul><li>Prospectively registered</li></ul>		
23/08/2007		Protocol		
Registration date 23/08/2007	Overall study status Completed	Statistical analysis plan		
		[X] Results		
Last Edited	Condition category	[] Individual participant data		
07/10/2021	Cancer			

## Plain English summary of protocol

Not provided at time of registration

# Study website

http://www.hovon.nl

# Contact information

# Type(s)

Scientific

#### Contact name

Dr P.J. Lugtenburg

#### Contact details

Erasmus Medical Centre Afd. Hematologie P.O. Box 2040 Rotterdam Netherlands 3000 CA +31 (0)10 463 3123 p.lugtenburg@erasmusmc.nl

# Additional identifiers

**EudraCT/CTIS** number

**IRAS** number

ClinicalTrials.gov number

Secondary identifying numbers HO84

# Study information

### Scientific Title

Randomised phase III study on the effect of early intensification of rituximab in combination with two-weekly cyclophosphamide, doxorubicin, vincristine and prednisone (CHOP) chemotherapy followed by rituximab maintenance in elderly patients (66 to 80 years) with diffuse large B-cell lymphoma

### Acronym

**HOVON 84 NHL** 

## **Study objectives**

First randomisation:

The hypothesis to be tested is that the outcome in arm B (early intensification of rituximab combined with two weekly CHOP) is better than in arm A (no intensification of rituximab).

#### Second randomisation:

The hypothesis to be tested is that the outcome in arm 2 (maintenance treatment with Rituximab) is better than in arm 1 (no further treatment).

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Approved 25/05/2007, the METC of the Erasmus Medical Center in Rotterdam (Netherlands), ref: 2007-055

## Study design

Multicentre randomised active-controlled parallel-group trial

## Primary study design

Interventional

## Secondary study design

Randomised controlled trial

## Study setting(s)

Hospital

### Study type(s)

Treatment

## Participant information sheet

## Health condition(s) or problem(s) studied

Diffuse large B-cell lymphoma

#### **Interventions**

Arm A: eight cycles of rituximab and cyclophosphamide, doxorubicin, vincristine and prednisone (R-CHOP14) plus Granulocyte Colony-Stimulating Factor (G-CSF) pegfilgrastim (Neulasta) Arm B: eight cycles of R-CHOP14 plus G-CSF pegfilgrastim (Neulasta) with intensification of rituximab (MabThera) during the first four cycles

Arm 1: no further treatment

Arm 2: maintenance treatment with rituximab (MabThera) once every eight weeks until relapse (for a maximum period of 24 months)

## Intervention Type

Drug

#### **Phase**

Phase III

## Drug/device/biological/vaccine name(s)

Rituximab and cyclophosphamide, doxorubicin, vincristine and prednisone (CHOP)

## Primary outcome measure

First randomisation:

Response rate (complete remission and 18-fluoro-2-deoxy-glucose-positron emission tomography [FDG-PET] negative partial remission or unconfirmed complete remission)

#### Second randomisation:

Failure free survival (measured from the date of second randomisation)

The protocol prescribes response evaluation during treatment after 4 and 8 cycles of R-CHOP and every 8 weeks during maintenance/observation. Thereafter follow up will be done every 6 months during the next 3 years and annually thereafter till 10 years after entry of the last patient. The total number of patients is expected to be recruited within 5 years. The analysis will be done approx 1 year after entry of the last patient.

## Secondary outcome measures

First randomisation:

1. Failure free survival measured from the date of registration. Patients still alive or lost to follow up are censored at the last day they were known to be alive

- 2. Overall survival measured from the time of registration
- 3. Time to reach response
- 4. Toxicity

#### Second randomisation:

- 1. Overall survival
- 2. Toxicity

The protocol prescribes response evaluation during treatment after 4 and 8 cycles of R-CHOP and every 8 weeks during maintenance/observation. Thereafter follow up will be done every 6 months during the next 3 years and annually thereafter till 10 years after entry of the last patient. The total number of patients is expected to be recruited within 5 years. The analysis will be done approx 1 year after entry of the last patient.

## Overall study start date

01/08/2007

### Completion date

31/03/2012

# **Eligibility**

## Key inclusion criteria

- 1. Patients with a confirmed histological diagnosis of Diffuse Large B-Cell Lymphoma (DLBCL) based upon a representative histology specimen according to the World Health Organisation (WHO) classification
- 2. DLBCL must be CD20 positive
- 3. Ann Arbor stages II IV
- 4. Greater than or equal to 66 and less than or equal to 80 years
- 5. Age WHO performance status 0 to 2
- 6. Written informed consent

#### Participant type(s)

Patient

#### Age group

Senior

#### Sex

Both

### Target number of participants

550

### Total final enrolment

600

#### Key exclusion criteria

- 1. Intolerance of exogenous protein administration
- 2. Severe cardiac dysfunction (New York Heart Association [NYHA] classification III IV or Left

Ventricular Ejection Fraction [LVEF] less than 45%). Congestive heart failure or symptomatic coronary artery disease or cardiac arrhythmias not well controlled with medication. Myocardial infarction during the last six months

- 3. Severe pulmonary dysfunction (vital capacity or diffusion capacity less than 50% of predicted value) unless clearly related to Non-Hodgkin lymphoma (NHL) involvement
- 4. Patients with uncontrolled asthma or allergy, requiring systemic steroid treatment
- 5. Significant hepatic dysfunction (total bilirubin greater than or equal to 30mmol/l or transaminases greater than or equal to 2.5 x upper normal limit), unless related to NHL
- 6. Significant renal dysfunction (serum creatinine greater than or equal to 150 umol/l or clearance less than or equal to 60 ml/min), unless related to NHL
- 7. Clinical signs of severe cerebral dysfunction
- 8. Suspected or documented central nervous system involvement by NHL
- 9. Patients with a history of uncontrolled seizures, central nervous system disorders or psychiatric disability judged by the investigator to be clinically significant and adversely affecting compliance to study drugs
- 10. Testicular DLBCL
- 11. Primary mediastinal B cell lymphoma
- 12. Transformed indolent lymphoma
- 13. Epstein Barr Virus (EBV) lymphoproliferative disorder
- 14. Secondary lymphoma after previous chemotherapy or radiotherapy
- 15. Major surgery, other than diagnostic surgery, within the last four weeks
- 16. Patients with active uncontrolled infections
- 17. Patients known to be Human Immunodeficiency Virus (HIV)-positive
- 18. Active chronic hepatitis B or C infection
- 19. Serious underlying medical conditions, which could impair the ability of the patient to participate in the trial (e.g. ongoing infection, uncontrolled diabetes mellitus, gastric ulcers, active autoimmune disease)
- 20. Life expectancy less than six months
- 21. Prior treatment with chemotherapy, radiotherapy or immunotherapy for this lymphoma, except a short course of prednisone (less than one week) and/or cyclophosphamide (less than one week and not in excess of 900 mg/m^2 cumulative) or local radiotherapy in order to control life threatening tumour related symptoms
- 22. History of active cancer during the past five years, except basal carcinoma of the skin or stage 0 cervical carcinoma

Date of first enrolment 01/08/2007

Date of final enrolment 31/03/2012

## Locations

**Countries of recruitment**Netherlands

Study participating centre Erasmus Medical Centre Rotterdam

# Sponsor information

#### Organisation

Dutch Haemato-Oncology Association (Stichting Hemato-Oncologie Volwassenen Nederland) (HOVON) (The Netherlands) - Data Centre

## Sponsor details

Erasmus Medical Centre Daniel den Hoed Kliniek P.O. Box 5201 Rotterdam Netherlands 3008 AE +31 (0)10 439 1568 hdc@erasmusmc.nl

### Sponsor type

Research organisation

#### Website

http://www.hovon.nl

#### **ROR**

https://ror.org/056kpdx27

# Funder(s)

## Funder type

Industry

#### Funder Name

HOVON receives unrestricted grants and/or financial support from Amgen, Johnson & Johnson-Orthobiotech, Roche and Novartis for the execution of investigator sponsored trials. In addition HOVON is supported by the Dutch Cancer Society.

## **Results and Publications**

# Publication and dissemination plan

Not provided at time of registration

# Intention to publish date

# Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration

## **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		30/07/2020	07/10/2021	Yes	No