# Concurrent ONce-daily VErsus twice-daily RadioTherapy: A 2-arm randomised controlled trial of concurrent chemo-radiotherapy comparing twice-daily and once-daily radiotherapy schedules in patients with limited stage small cell lung cancer (SCLC) and good performance status.

Published: 06-02-2009 Last updated: 06-05-2024

To compare the primary endpoint (overall survival) between the two arms of the studySecondary endpoints are:Local progression-free survivalMetastases-free survivalCTCAE v3.0 toxicityChemotherapy dose intensityRadiotherapy dose intensity

Ethical review	Approved WMO
Status	Pending
Health condition type	Respiratory and mediastinal neoplasms malignant and unspecified
Study type	Interventional

# **Summary**

### ID

NL-OMON33659

**Source** ToetsingOnline

Brief title CONVERT

### Condition

- Respiratory and mediastinal neoplasms malignant and unspecified
- Respiratory tract neoplasms

#### Synonym

lung cancer, oat cell carcinoma, small cell lung cancer

# Research involving

Human

### **Sponsors and support**

**Primary sponsor:** EORTC **Source(s) of monetary or material Support:** EORTC en Christie- Hospital NHS Trust;MRC

#### Intervention

**Keyword:** Concurrent chemoradiation, once daily radiotherapy, Small cell lung cancer Limited disease, Twice dailly radiotherapy

### **Outcome measures**

#### **Primary outcome**

Primary endpoint: overall survival

#### Secondary outcome

Secondary endpoints;

Local progression-free survival

Metastases-free survival

CTCAE v3.0 toxicity

Chemotherapy dose intensity

Radiotherapy dose intensity

# **Study description**

#### **Background summary**

2 - Concurrent ONce-daily VErsus twice-daily RadioTherapy: A 2-arm randomised contr ... 24-05-2025

The standard treatemtn of patiënts with SCLC LD consists of 4 cycles of chemotherapy

(generally platinum-derivates with etoposide). Concurrently with a part of the chemotherapy radiotherapy is given to the lungtumor, mostly during the second and the third cycle. The standard dose of radiotherapy is 45-50 Gray (Gy), adminstered in 25-30 fractions. The optimal dose of radiotherapy, the optimal frationation and the optimal timing of combination with chemotherapy is not known. The best results reported in a phase III study are obtained with 4 cycles ofchemotherapy and radiotherapye 45 Gy/2 x per day 1.5 Gy, started on day 1 van de chemotherapy. The 5-years survival was 26% in this study. Improvement of these results can possibly be obtained by a higher dose of radiotherapy. Based upon several phase II studies is chosen for av comparison of 45 Gy/2xdd 1.5Gy/30 fractions with 66 Gy/1xdd 2Gy/33 fractions. The chemotherapy is identical in both arms of the study

### **Study objective**

To compare the primary endpoint (overall survival) between the two arms of the study Secondary endpoints are: Local progression-free survival Metastases-free survival CTCAE v3.0 toxicity Chemotherapy dose intensity Radiotherapy dose intensity

### Study design

Multicentre randomised phase III trial. Patients are randomised to one of the two treatment arm with 1;1 randomisation: patients will be randomly allocated to treatment, using a minimization procedure

### Intervention

Control arm:

Four to six cycles of Cisplatin 25mg/m2 iv D1 Etoposide 100 mg/m2 D1-3 with concurrent BD radiotherapy 45 Gy in 30 twice-daily fractions over 3 weeks, 5 days per week from day 22 of cycle 1

Experimental arm:

Four to six cycles of Cisplatin 25mg/m2 iv D1 Etoposide 100 mg/m2 D1-3 with concurrent oD radiotherapy 66 Gy in 33 daily fractions over 6.5 weeks, 5 days per week from day 22 of cycle 1

### Study burden and risks

In the intervention-arm patients receive three more fractions of radiotherapy (33 i.po. 30). In the intervention-arm patients will be irradiated during 6.5 weeks, in the standard-arm during three weeks.

The higher dose of radiotherapy can cause more acute and late toxicity.

# Contacts

Public EORTC

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# **Trial sites**

### **Listed location countries**

Netherlands

# **Eligibility criteria**

Age Adults (18-64 years) Elderly (65 years and older)

### **Inclusion criteria**

a)either sex, age \*18 years

- b) Performance status ECOG grade 0-1 (appendix 1).
- c) Histologically or cytologically confirmed SCLC
- d) No patients with mixed small-cell and non-small-cell histologic features
- e) No history of previous malignancy in the last 5 years (except non melanomatous skin or in-
  - 4 Concurrent ONce-daily VErsus twice-daily RadioTherapy: A 2-arm randomised contr ... 24-05-2025

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cervix carcinoma). Patients with previous malignancies (except breast cancer) and in remission for at least 5 years can be included.

f) Limited stage disease (Veterans Administration Lung Cancer Study Group) ie patients whose disease can be encompassed within a radical radiation portal.

g) No pleural or pericardial effusions proven to be malignant

h) RT target volume acceptable by the local radiotherapist

i) Pulmonary function

- a. FEV1 >1 litre or 40% predicted value
- b. KCO (DLCO/VA) >40%predicted
- j) Maximum of one of the following adverse biochemical factors:
- a. Serum alkaline phosphatase more than >1.5 times the upper limit of normal (ULN)
- b. Serum sodium < Lower limit of Normal
- c. Serum LDH > UNL

k) Normal serum creatinine and calculated creatinine clearance \* 50 ml/min. If calculated creatinine

clearance is <50 ml/mn according to the Cockroft and Gault formula (appendix 5), an EDTA clearance should be performed

- I) Adequate haematological function
- a. Neutrophils >1.5 x 109/l
- b. Platelets >100 x 109/l
- r) Patient has read the patient information sheet and has signed the consent form.
- s) Patients available for follow-up
- o) Considered fit to receive any of the trial regimens

# **Exclusion criteria**

Other previous or concomitant illness or treatment which in the opinion of the clinician will interfere with the trial treatments or comparisons

Prior surgical resection of the primary tumour, no prior radiotherapy for lung cancer Considered fit to receive any of the trial regimens

Female patients must satisfy the investigator that they are not pregnant, or are not of childbearing

potential, or are using adequate contraception. Men must also use adequate contraception, as etoposide is clastogenic.

Patients who are breastfeeding

Patients who are not available for adequate follow-up

# Study design

# Design

Study phase:	3
Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)

#### Primary purpose: Treatment

### Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-01-2009
Enrollment:	60
Туре:	Anticipated

# **Ethics review**

Approved WMO	
Application type:	First submission
Review commission:	METC Amsterdam UMC

# **Study registrations**

### Followed up by the following (possibly more current) registration

No registrations found.

### Other (possibly less up-to-date) registrations in this register

No registrations found.

### In other registers

### Register

ISRCTN CCMO ID ISRCTN91927162 NL24565.018.08