

A PHASE II STUDY OF SORAFENIB IN PATIENTS WITH LOCALLY ADVANCED AND/OR METASTATIC (STAGE IIIB OR IV) NON-SMALL CELL LUNG CANCER (NSCLC) WITH A K-RAS MUTATION

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Efficacy of sorafenib in NSCLC with a K-RAS mutation as determined by the Disease Control Rate at 6 weeks

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

Summary

ID

NL-OMON32472

Source

ToetsingOnline

Brief title

Sorafenib in K-Ras mutated NSCLC

Condition

- Respiratory and mediastinal neoplasms malignant and unspecified

Synonym

non-small cell lung cancer

Research involving

Human

Sponsors and support

Primary sponsor: Vrije Universiteit Medisch Centrum

Source(s) of monetary or material Support: Bayer

Intervention

Keyword: K-Ras mutation, NSCLC, Sorafenib

Outcome measures

Primary outcome

Disease Control Rate

Secondary outcome

objective response rate, duration of response, time to disease progression or death, survival

Study description

Background summary

Lung cancer is the major cause of cancer related death in the Western World. In the year 2006 10357 cases of lung cancer were diagnosed in The Netherlands, 6667 in men and 3690 in women while 9889 patients died of lung cancer¹. Non-small cell lung cancer (NSCLC) constitutes about 85% of all lung cancer and more than 50% of patients are not curable at presentation. The current standard of therapy for patients with advanced non small cell lung cancer is platinum based doublet chemotherapy. Therapeutic results are far from satisfactory: survival has reached a plateau at a median of 9-11 months in the recently published phase III trials. Therefore, clinical research of new treatment strategies is warranted. One way to improve on these results is to personalize treatment, amongst others based on tumor molecular characteristics. In NSCLC the most frequent occurring somatic mutations are located in 3 codons of the K-Ras gene. Constitutional activation of K-Ras, leads to signaling through the Raf-Mek-Erk pathway which is implicated in cellular growth and survival pathways. Treatment options for patients that have K-Ras mutated tumors are limited as these are believed to be poor responders to cytotoxic chemotherapy and refractory to EGFR TKI*s. Sorafenib, a multitargeted tyrosine kinase inhibitor, inhibits amongst others the Ras-Raf pathway. Sorafenib has been evaluated in unselected advanced NSCLC patients both as a single agent and in

conjunction with platinum doublet chemotherapy as first line treatment. The results of these studies are not equivocal: while the single agent studies showed some activity of sorafenib in all lines of treatment, the ESCAPE phase III trial failed to improve survival when sorafenib was added to the commonly used paclitaxel-carboplatin doublet. Sorafenib is orally available and is labeled for all histologies of NSCLC. We hypothesized that selecting NSCLC patients with K-Ras mutated tumors will enhance the clinical efficacy of sorafenib

Study objective

Efficacy of sorafenib in NSCLC with a K-RAS mutation as determined by the Disease Control Rate at 6 weeks

Study design

Single arm open label phase II study.

Intervention

Sorafenib 400 mg td po

Study burden and risks

Usual risk associated with treatment with chemotherapy. Extra burden associated with participation is one additional tumor biopsy after 3 weeks of treatment (optional) and two additional venapunctures before and after 3 weeks of treatment.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)

Elderly (65 years and older)

Inclusion criteria

1. Histologically advanced NSCLC stage IIIB or IV harbouring a K-RAS mutation
2. Disease progression after at least 1 prior chemotherapy regimen that should include a platinum doublet
3. Age > 18 years.
4. ECOG Performance Status of 0-2
5. Subjects with at least one uni-dimensional (for RECIST) measurable lesion. Lesions must be measured by CT-scan.
6. Adequate bone marrow, liver and renal function
9. Written informed consent

Exclusion criteria

1. History of cardiac disease: congestive heart failure >NYHA class 2; active CAD (MI more than 6 mo prior to study entry is allowed); cardiac arrhythmias requiring anti-arrhythmic therapy (beta blockers or digoxin are permitted) or uncontrolled hypertension.
2. History of HIV infection or chronic hepatitis B or C.
3. Active clinically serious infections (> grade 2 NCI-CTC version 3.0)
4. Symptomatic metastatic brain or meningeal tumors (unless the patient is > 1 months from definitive radiotherapy and off steroids)

Study design

Design

Study phase:	2
Study type:	Interventional
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Treatment

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	01-05-2010
Enrollment:	48
Type:	Actual

Medical products/devices used

Product type:	Medicine
Brand name:	nexavar
Generic name:	sorafenib
Registration:	Yes - NL outside intended use

Ethics review

Approved WMO	
Date:	21-01-2010
Application type:	First submission
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	16-02-2010
Application type:	First submission
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	08-04-2010
Application type:	Amendment
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

ID: 25401

Source: NTR

Title:

In other registers

Register	ID
EudraCT	EUCTR2009-016632-12-NL
CCMO	NL30000.029.09
OMON	NL-OMON25401