

A phase 1, open-label multicenter, 3-period, fixed-sequence study to investigate the effect of vemurafenib on the pharmacokinetics of a single dose of acenocoumarol in patients with BRAFV600 mutation positive metastatic malignancy

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The primary objective of this study is to evaluate the effect of multiple oral doses of vemurafenib (960 mg BID) on the PK of a single oral dose of acenocoumarol (4 mg). The secondary objective of this study is to assess the safety and tolerability...

Ethical review	Approved WMO
Status	Pending
Health condition type	Other condition
Study type	Interventional

Summary

ID

NL-OMON40270

Source

ToetsingOnline

Brief title

GO28397, vemurafenib, acenocoumarol

Condition

- Other condition
- Skin neoplasms malignant and unspecified

Synonym

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cancerous disease with BrafV600 specific mutation

Health condition

solid tumors

Research involving

Human

Sponsors and support

Primary sponsor: Hoffmann-La Roche

Source(s) of monetary or material Support: Sponsor

Intervention

Keyword: BrafV600 mutation-positive malignancies, Phase I, Verumafenib

Outcome measures

Primary outcome

The following PK parameters for R* and S*acenocoumarol will be obtained using non*compartmental analysis methods:

- Area under the plasma concentration-time curve (AUC) from Time 0 to last measurable concentration timepoint (AUC0*T)
- AUC from Time 0 to infinity (AUC0**)
- Maximum plasma concentration (Cmax)
- Time to maximum plasma concentration (Tmax)
- Terminal half-life (t1/2)
- Apparent clearance (CL/F)

Secondary outcome

The safety outcome measures for this study are as follows:

- Incidence, nature, and intensity (severity) of AEs and SAEs, graded according to the

Study description

Background summary

A drug-drug interaction study (NP22676) using a CYP450 probe cocktail was conducted in patients with metastatic melanoma to assess the effect of multiple doses of vemurafenib on single doses of five CYP450 probe substrates: caffeine-CYP1A2, warfarin-CYP2C9, omeprazole-CYP2C19, dextromethorphan-CYP2D6, and midazolam-CYP3A4). In the study, caffeine exposure was increased approximately 2.6-fold (geometric mean ratio [GMR]) and midazolam exposure was decreased by approximately 39% (GMR). Results suggested that vemurafenib might inhibit CYP1A2 activity and induce CYP3A4 activity in patients with melanoma. In the same clinical study, although S-warfarin exposure was increased by approximately 18% by vemurafenib, the overall effect of vemurafenib on CYP2C9 activity was not considered significant, as the 90% CI met the bioequivalence range of 80%-125% (see the Vemurafenib Package Insert for details). Because of its narrow therapeutic index and the potential effects of vemurafenib on the enzymes responsible for acenocoumarol metabolism, this study will evaluate the effect of multiple doses of vemurafenib on acenocoumarol PK. Given acenocoumarol is administered as a racemic mixture, both R- and S-acenocoumarol plasma PK will be monitored. The risk associated with administering acenocoumarol to cancer patients as two single 4-mg doses taken 21 days apart is considered minimal. Because the dose administered in this study will be only half of the suggested starting dose, patients in this study will not derive any benefit from receiving acenocoumarol. Patients with BRAFV600 mutations will be enrolled into this study. No unexpected adverse risks associated with the administration of vemurafenib to these patients are anticipated. Some patients may derive some efficacy benefit from receiving vemurafenib during this study and during the rollover study.

Study objective

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The primary objective of this study is to evaluate the effect of multiple oral doses of vemurafenib (960 mg BID) on the PK of a single oral dose of acenocoumarol (4 mg).

The secondary objective of this study is to assess the safety and tolerability of vemurafenib in the study population.

Study design

This is a Phase I, open-label, multicenter, 3*period, fixed-sequence study to investigate

the effect of multiple doses of vemurafenib on the PK of acenocoumarol following oral administration.

Enough patients will be enrolled to obtain at least 12 evaluable patients for PK analysis.

Additional patients may be enrolled if at least 12 evaluable patients are not available.

Intervention

Following a screening period of up to 28 days, patients will receive acenocoumarol 4 mg

orally (PO) on Day 1 (Period A) under fasted conditions of at least 10 hours.

In Period B, patients will receive vemurafenib 960 mg PO BID for 20 days (Days 4*23).

In Period C, patients will receive acenocoumarol 4 mg PO on Day 23 (under fasted conditions of at least 10 hours) and vemurafenib 960 mg PO BID on Days 23*26.

Study burden and risks

Because only patients are included for whom vemurafenib is an accepted standard of care or where there is no other generally accepted standard of care. And because The risk associated with administering acenocoumarol to cancer patients as two single 4*mg doses taken 21 days apart is considered minimal. In addition, some patients may derive some efficacy benefit from receiving vemurafenib during this study and during the rollover study.

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

- Patients with either unresectable Stage IIIc or Stage IV metastatic melanoma positive for the BRAFV600 mutation or other malignant tumor type, which harbors a V600-activating mutation of BRAF, as determined by the results of cobas 4800 BRAF V600 Mutation Test or a DNA sequencing method (e.g., Sanger), and who have no acceptable standard treatment options;
- Eastern Cooperative Oncology Group (ECOG) performance status 0 to 2;
- Male or female patients between 18 and 70 years of age (inclusive);
- Ability to participate and willingness to give written informed consent prior to any study related procedures and to comply with the study protocol;
- Life expectancy ≥ 12 weeks;
- Full recovery from the effects of any major surgery or significant traumatic injury at least 14 days prior to the first dose of study treatment;
- Adequate hematologic and end organ function;
- Female patients of childbearing potential and male patients with partners of childbearing potential must agree to always use 2 effective methods of contraception including at least 1 method with a failure rate of $< 1\%$ per year during the course of this study and for at least 6 months after completion of study treatment;
- Negative serum or urine pregnancy test results within 7 days prior to commencement of dosing in women of childbearing potential; women not of childbearing potential may be included if they are either surgically sterile or have been naturally menopausal for ≥ 1 year. Women not of childbearing potential need not undergo pregnancy testing.;
- Absence of any psychological, familial, sociological, or geographical condition that could potentially hamper compliance with the study protocol and follow-up schedule; such conditions should be discussed with the patient before trial entry.

Exclusion criteria

- Prior treatment with vemurafenib or other BRAF inhibitor within 42 days of Day 1; • Prior anti-cancer therapy (e.g., biologic or other targeted therapy, chemotherapy, or hormonal therapy) within 28 days (6 weeks for nitrosoureas or mitomycin C, or 14 days for hormonal therapy or kinase inhibitors) before the first dose of study treatment in Period A, Day 1; • Palliative radiotherapy within 2 weeks prior to first dose of study drug treatment in Period A, Day 1
- Experimental therapy within 4 weeks prior to first dose of study drug treatment in Period A, Day 1; • History of clinically significant cardiac or pulmonary dysfunction, including: current uncontrolled Grade ≥ 2 hypertension or unstable angina; • Current Grade ≥ 2 dyspnea or hypoxia or need for supplemental oxygen; • History of symptomatic congestive heart failure of any New York Heart Association class or serious cardiac arrhythmia requiring treatment, with the exceptions of atrial fibrillation and paroxysmal supraventricular tachycardia; • History of myocardial infarction within 6 months prior to first dose of study treatment; • Current dyspnea at rest due to complications of advanced malignancy, or any requirement for supplemental oxygen to perform activities of daily living; • History of congenital long QT syndrome or corrected QT (QTc) > 450 msec; • Active central nervous system lesions (i.e., patients with radiographically unstable, symptomatic lesions); • Patients with VKORC1 mutatie (1639G*A, 1173C*T) in either one allele (heterozygoos) or two alleles (homozygous)
- Patients with CYP2C9*3 allele mutation in either one allele (heterozygoos) or two alleles (homozygous)
- Patients with a history of bleeding or coagulation disorders; • Allergy or hypersensitivity to vemurafenib or acenocoumarol formulation ; • Current severe, uncontrolled systemic disease (e.g., clinically significant cardiovascular, pulmonary, or metabolic disease); • Inability or unwillingness to swallow pills; • History of malabsorption or other condition that would interfere with enteral absorption of study treatment; • History of clinically significant liver disease (including cirrhosis), current alcohol abuse, or known infection with human immunodeficiency virus (HIV) requiring antiretroviral treatment, acquired immune deficiency syndrome (AIDS)*related illness, or active hepatitis B or hepatitis C virus; • Uncontrolled ascites requiring weekly large-volume paracentesis for 3 consecutive weeks prior to enrollment; • Pregnancy, lactation, or breastfeeding; • Unwillingness or inability to comply with study and follow-up procedures; • Need to take a concomitant medication, dietary supplement, or food that is prohibited during the study

Study design

Design

Study type: Interventional

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Treatment

Recruitment

NL

Recruitment status: Pending

Start date (anticipated): 01-07-2013

Enrollment: 6

Type: Anticipated

Medical products/devices used

Product type: Medicine

Brand name: Sinthrome

Generic name: Acenocoumarol

Registration: Yes - NL outside intended use

Product type: Medicine

Brand name: Zelboraf

Generic name: Vemurafenib

Registration: Yes - NL intended use

Ethics review

Approved WMO

Date: 26-03-2013

Application type: First submission

Review commission: PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)

Approved WMO

Date: 26-06-2013

Application type: First submission

Review commission: PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)

Approved WMO

Date: 16-07-2013

Application type: Amendment

Review commission: PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)

Approved WMO	
Date:	02-08-2013
Application type:	Amendment
Review commission:	PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)
Approved WMO	
Date:	23-08-2013
Application type:	Amendment
Review commission:	PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)
Approved WMO	
Date:	09-01-2014
Application type:	Amendment
Review commission:	PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)
Approved WMO	
Date:	21-01-2014
Application type:	Amendment
Review commission:	PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)
Approved WMO	
Date:	12-06-2014
Application type:	Amendment
Review commission:	PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)
Approved WMO	
Date:	15-07-2014
Application type:	Amendment
Review commission:	PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)
Approved WMO	
Date:	24-07-2014
Application type:	Amendment
Review commission:	PTC Stichting het Nederlands Kanker Instituut - Antoni van Leeuwenhoekziekenhuis (Amsterdam)

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	ID
EudraCT	EUCTR2012-003706-27-NL
CCMO	NL43460.031.13