An open label, stratified, single-arm phase II study of RAD001 in patients with advanced pancreatic neuroendocrine tumor (NET) after failure of cytotoxic chemotherapy

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To determine the objective response rate (ORR) (complete response and partialresponse) of RAD001 10 mg po qd monotherapy in patients with advanced(unresectable or metastatic) pancreatic NET after the failure of cytotoxicchemotherapy.

Ethical review Approved WMO

Status Pending

Health condition type Neoplastic and ectopic endocrinopathies

Study type Interventional

Summary

ID

NL-OMON29869

Source

ToetsingOnline

Brief title

Phase II study in patients with pancreas NET

Condition

- Neoplastic and ectopic endocrinopathies
- Endocrine neoplasms malignant and unspecified

Synonym

advanced islet cell carcinoma, advanced pancreatic neuroendocrine tumor

Research involving

Human

Sponsors and support

Primary sponsor: Novartis

Source(s) of monetary or material Support: Novartis

Intervention

Keyword: pancreatic neuroendocrine tumor, RAD001

Outcome measures

Primary outcome

objective response rate (ORR) (complete response and partial response) of

RAD001 10 mg po qd monotherapy in patients with advanced (unresectable or

metastatic) pancreatic NET after the failure of cytotoxic chemotherapy (stratum

1).

Secondary outcome

- duration of response to RAD001 monotherapy (stratum 1).

- objective response rate (ORR) and response duration of RAD001 10 mg po qd in

patients whose tumors have progressed while receiving prior Sandostatin LAR®

Depot therapy and after the failure of cytotoxic chemotherapy (stratum 2).

- safety and tolerability of RAD001 monotherapy (10 mg/d) in patients with

pancreatic NET (stratum 1).

- safety and tolerability of the combination of RAD001 10 mg/d plus Sandostatin

LAR® Depot in patients with pancreatic NET (stratum 2).

- progression free survival (PFS) and the overall survival (OS) of patients receiving RAD001 10 mg per day monotherapy and of patients receiving RAD001 10 mg per day in combination with Sandostatin LAR® Depot.
- steady state exposure to RAD001 and to estimate the effect of coadministering Sandostatin LAR® Depot on RAD001 exposure.
- effects of RAD001 on plasma angiogenic molecules such as VEGF and basic FGF.
- effects of RAD001 on serum Lactate Dehydrogenase (LDH) isozymes.
- characterize pre-treatment tumor samples by immunohistochemical and genetic analyses indicating activation of the mTOR pathway.
- change in octreotide levels after treatment with RAD001.
- relationship between RAD001 steady state levels, tumor response, and Chromogranin A response (50% decrease).

Study description

Background summary

RAD001 has been evaluated in phase 1 studies involving 147 patients with advanced cancers using both a weekly regimen (up to 70mg/wk) and a daily regimen (10mg/d). The adverse events are mild-moderate (CTC grade 1-2) in the majority of patients.

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The dose and schedule of 10mg p.o. q.d has been selected for most phase 2 studies based on assessment of both pharmacodynamic and safety studies. Conventional cytotoxic agents were empirically evaluated in in vitro and in vivo pharmacology studies as combination partners for RAD001 and have shown that RAD001 is additive or synergistic in combination with other anticancer agents, including cytotoxics and other signal transduction inhibitors (STIs) as well as endocrine therapy. In many cases, a potentiation of cell death by the drug combination was observed.

In pancreatic NET cells, mTOR is activated in response to signaling by insulin-like growth factor 1 (IGF-1). Interruption of this signaling pathway through treatment with RAD001 in combination with a somatostatin analogue was the goal of a recent phase 2 clinical trial conducted by J. Yao at the MD Anderson Cancer

Center. Of the thirty treated patients, twenty-seven patients were evaluable for response. Four patients were reported to have partial response, 17 with stable disease (SD), and 3 with progressive disease (PD) per RECIST. Responses appeared to be durable.

Study objective

To determine the objective response rate (ORR) (complete response and partial response) of RAD001 10 mg po qd monotherapy in patients with advanced (unresectable or metastatic) pancreatic NET after the failure of cytotoxic chemotherapy.

Study design

This is a stratified two-stage, single-arm, phase 2 study of treatment with RAD001 in patients with advanced (unresectable or metastatic) pancreatic neuroendocrine

tumor (NET) after failure of cytotoxic chemotherapy.

Patients are stratified according to whether they are receiving chronic treatment with Sandostatin LAR® Depot (octreotide acetate for injectable suspension).

- Stratum 1, consisting of patients not receiving chronic Sandostatin LAR® Depot therapy, will receive RAD001 monotherapy at 10 mg/day.
- Stratum 2, consisting of patients with tumors that have progressed during Sandostatin LAR® Depot treatment will continue their entry dose of Sandostatin LAR® Depot plus RAD001 10 mg/day.

In each of the two strata, a two-stage Simon design is used allowing for early stopping after stage 1 for lack of activity. If activity is demonstrated after stage 2,

further patients will be included in a 3rd stage to increase the sample size to

100

patients in stratum 1.

All patients will be treated with RAD001 until tumor progression is documented per RECIST criteria, until unacceptable toxicity occurs, or until patient or investigator requests discontinuation of treatment.

Intervention

In stratum 1 RAD001 will be given at 10 mg po qd by continuous daily dosing until

tumor progression.

In stratum 2 patients will receive RAD001 10 mg po qd and will continue their entry

dose of Sandostatin LAR® Depot, both drugs continued until tumor progression.

Study burden and risks

Toxicity of RAD001 alone or of the combination of RAD001 and Sandostatine LAR. Radiation exposure of CT-scans.

Contacts

Public

Novartis

Raapopseweg 1 6800 LZ Arnhem

NL

Scientific

Novartis

Raapopseweg 1 6800 LZ Arnhem NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

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

Inclusion criteria

- * Advanced (unresectable or metastatic) biopsy-proven pancreatic neuroendocrine tumor.
- * Pancreatic neuroendocrine tumor with documented objective progression of disease while receiving cytotoxic chemotherapy or documented progression at any time after receiving an adequate course of cytotoxic chemotherapy
- * At screening a CT or MRI scan must demonstrate measurable disease
- * Adequate liver function: bilirubin \leq 1.5 x ULN; ALT and AST \leq 2.5x ULN (\leq 5x ULN in patients with liver metastases).
- * Stratum 1: Not receiving Sandostatin LAR <= 30 days of enrollment
- * Stratum 2 only: receiving treatment (at least 3 consecutive months) with Sandostatin LAR Depot.

Exclusion criteria

- * Anticancer therapy within 3 weeks of enrollment
- * Hepatic artery embolization within the last 6 months, or cryoablation of hepatic metastasis within 2 months of enrollment.
- * Prior therapy with RAD001 (everolimus) or other rapamycins
- * Uncontrolled diabetes
- * Chronic active or persistent liver disease

Study design

Design

Study phase: 2

Study type: Interventional

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Treatment

Recruitment

NL

Recruitment status: Pending

Start date (anticipated): 01-08-2006

Enrollment: 8

Type: Anticipated

Medical products/devices used

Product type: Medicine

Brand name: Ng niet geregistreerd voor deze indicatie

Generic name: Everolimus

Registration: Yes - NL outside intended use

Product type: Medicine

Brand name: Sandostatine LAR Depot

Generic name: octreotide

Registration: Yes - NL outside intended use

Ethics review

Approved WMO

Date: 01-06-2006

Application type: First submission

Review commission: METC Universitair Medisch Centrum Groningen (Groningen)

Approved WMO

Date: 23-02-2007

Application type: Amendment

Review commission: METC Universitair Medisch Centrum Groningen (Groningen)

Approved WMO

Date: 13-12-2011

Application type: Amendment

Review commission: METC Universitair Medisch Centrum Groningen (Groningen)

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 EUCTR2006-001247-64-NL

Other NA

CCMO NL12250.042.06