

Trial record 1 of 1 for: AIO-NET-0112

[Previous Study](#) | [Return to List](#) | [Next Study](#)

Safety and Tolerability of Everolimus as Second-line Treatment in Poorly Differentiated Neuroendocrine Carcinoma / Neuroendocrine Carcinoma G3 (WHO 2010) and Neuroendocrine Tumor G3 - an Investigator Initiated Phase II Study (EVINEC)

This study is currently recruiting participants. (see [Contacts and Locations](#))

Verified August 2015 by AIO-Studien-gmbH

Sponsor:

AIO-Studien-gmbH

Collaborators:

Assign Data Management and Biostatistics GmbH
Novartis Pharmaceuticals

Information provided by (Responsible Party):

AIO-Studien-gmbH

ClinicalTrials.gov Identifier:

NCT02113800

First received: April 8, 2014

Last updated: August 31, 2015

Last verified: August 2015

[History of Changes](#)

[Full Text View](#)

[Tabular View](#)

[No Study Results Posted](#)

[Disclaimer](#)

[How to Read a Study Record](#)

Purpose

The study is designed as an open-label, prospective, single arm, multicenter study of everolimus in histologically confirmed, neuroendocrine carcinoma G3 /neuroendocrine tumor G3 after failure of first-line platin-based chemotherapy (open-label pilot study).

The aim of this study is to provide a second line therapy to patients with any type of platinum based first line chemotherapy, to gather data on disease control rate and progression free survival.

Condition	Intervention	Phase
Poorly Differentiated Neuroendocrine Carcinoma, Neuroendocrine Carcinoma, Grade 3 Neuroendocrine Carcinoma, Grade 1 [Well-differentiated Neuroendocrine Carcinoma] That Switched to G3 Neuroendocrine Carcinoma, Grade 2 [Moderately Differentiated Neuroendocrine Carcinoma] That Switched to G3 Neuroendocrine Tumor, Grade 3 and Disease Progression as Measured by Response Evaluation Criteria in Solid Tumors (RECIST 1.1.)	Drug: Everolimus (Afinitor®)	Phase II

Study Type: Interventional
Study Design: Endpoint Classification: Safety/Efficacy Study
Intervention Model: Single Group Assignment
Masking: Open Label
Primary Purpose: Treatment

Official Title: Safety and Tolerability of Everolimus as Second-line Treatment in Poorly Differentiated Neuroendocrine Carcinoma / Neuroendocrine Carcinoma G3 (WHO 2010) and Neuroendocrine Tumor G3 - an Investigator Initiated Phase II Study

Resource links provided by NLM:

[MedlinePlus](#) related topics: [Cancer](#) [Carcinoid Tumors](#)

[Drug Information](#) available for: [Sirolimus](#) [Everolimus](#) [Temsirrolimus](#)

[Genetic and Rare Diseases Information Center](#) resources: [APUDoma](#) [Carcinoid Tumor](#) [Goblet Cell Carcinoid](#) [Neuroepithelioma](#)

[U.S. FDA Resources](#)

Further study details as provided by AIO-Studien-gmbH:

Primary Outcome Measures:

- Incidence of adverse events (AEs) [Time Frame: approx. 18 month] [Designated as safety issue: Yes]
Incidence of adverse events (AEs) overall and by severity, and serious adverse events (SAEs). Severity will be assessed using the National Cancer Institute-Common Toxicity Criteria (NCI-CTC) for Adverse Events, version 4.03 (CTCAEv4.03). To evaluate tolerability and safety of everolimus in second-line treatment of poorly differentiated neuroendocrine carcinoma / neuroendocrine carcinoma G3 according to WHO 2010 and neuroendocrine tumors G3.

Secondary Outcome Measures:

- Progression free survival (PFS) [Time Frame: approx. 18 month] [Designated as safety issue: No]
Progression free survival (PFS) as the length of time during and after the treatment of a disease, such as cancer, that a patient lives with the disease but it does not get worse as per local radiology assessment using Response Evaluation Criteria in Solid Tumors (RECIST 1.1.)

- Objective response rate (ORR) [Time Frame: approx. 18 month] [Designated as safety issue: No]
Objective response rate defined as the rate of best overall response (CR+PR), determined by RECIST V 1.1.
- Disease control rate (DCR) [Time Frame: approx. 18 month] [Designated as safety issue: No]
Disease control rate defined as the rate of best overall response and stable disease (CR+PR+SD), determined by RECIST V 1.1.
- Duration of response (DR) [Time Frame: approx. 18 month] [Designated as safety issue: No]
Duration of response is defined as the time from onset of the first objective tumor response (CR/PR) to objective tumor progression or death from any cause.
- Overall Survival (OS) [Time Frame: approx. 18 month] [Designated as safety issue: No]
OS is defined as the time from date of randomization to the date of death from any cause. If a patient is not known to have died at the date of analysis cut-off, the OS will be censored at the last date of contact.
- Quality of life [Time Frame: approx. 18 month] [Designated as safety issue: No]
Quality of life (HRQoL) will be evaluated using the European Organisation for Research and Treatment of Cancer (EORTC), to assess the quality of life of cancer patients questionnaire (QLQ-C30)
- chromogranin A & B [Time Frame: approx. 12 month] [Designated as safety issue: No]
Percentage of patients showing normalization or a decrease of chromogranin A & B
- Time to Progression (TTP) [Time Frame: approx. 18 month] [Designated as safety issue: No]
Time to progression (TTP) is the time from date of start of treatment to the date of event defined as the first documented progression due to underlying cancer.
- neuron-specific enolase [Time Frame: approx. 12 month] [Designated as safety issue: No]
Percentage of patients showing normalization or a decrease of neuron-specific enolase
- progastrin releasing peptide [Time Frame: approx. 12 month] [Designated as safety issue: No]
Percentage of patients showing normalization or a decrease of progastrin releasing peptide.
- Correlation mTOR pathway components in tumor tissue to tumor response [Time Frame: approx. 18 month] [Designated as safety issue: No]
To explore expression of mTOR pathway components in tumor tissue (archive) in correlation to tumor response

Estimated Enrollment: 40
 Study Start Date: August 2015
 Estimated Study Completion Date: February 2017
 Estimated Primary Completion Date: November 2016 (Final data collection date for primary outcome measure)

Arms	Assigned Interventions
Experimental: Single Arm Patients receive Everolimus orally, 10 mg/day. The end of study will be performed when tumor progression has been observed for 28 patients. Patients who are still under treatment at that time may continue with chemotherapy at the discretion of the investigator, but will be excluded from the study.	Drug: Everolimus (Afinitor®) Formulation: 10 mg/day Route: oral (tablet)

Detailed Description:

As more efficient drugs are urgently needed for the treatment of neuroendocrine tumors the investigator evaluated phosphorylated Mammalian target of rapamycin (mTOR) and effectors in a series of NEC G3 at the Charité Center. Everolimus showed antiproliferative effects in bronchial NET.

In a second approach the data of this study should be the basis to generate another study to further explore everolimus as maintenance therapy in NEC G3/ NET G3.

Eligibility

Ages Eligible for Study: 18 Years and older
 Genders Eligible for Study: Both
 Accepts Healthy Volunteers: No

Criteria

Inclusion Criteria:

1. Signed written informed consent
2. Male or female \geq 18 years of age
3. Patients with poorly differentiated neuroendocrine carcinoma, neuroendocrine carcinoma G3 (NEC - G3 according to WHO 2010) or well or moderately differentiated neuroendocrine carcinoma (NET - G1 / G2) that switched to G3 (confirmed by histology) or neuroendocrine tumor G3 (NET G3) and disease progression as measured by RECIST 1.1
4. Progression during or after treatment with first-line platinum-based chemotherapy. In NET G3 that switched from NET G2 the line of therapy is determined from the time of revised histology (confirming a G3 NEN)
5. Measurable disease according to RECIST 1.1
6. Performance Status according to Eastern Cooperative Oncology Group (ECOG) status 0 - 2 (Karnofsky Performance status \geq 80%)
7. Women of child-bearing potential must have a negative pregnancy test

8. Laboratory requirements:

- Hematology
 - Absolute neutrophil count $\geq 1.5 \times 10^9/L$
 - Platelet count $\geq 100 \times 10^9/L$
 - Leukocyte count $\geq 3.0 \times 10^9/L$
 - Hemoglobin $\geq 9 \text{ g/dL}$ or 5.59 mmol/L
- Hepatic Function
 - Total bilirubin ≤ 1.5 time the upper limit normal (ULN)
 - Aspartate Aminotransferase (AST) $\leq 3 \times$ ULN in absence of liver metastases, or $\leq 5 \times$ ULN in presence of liver metastases
 - Alanine Aminotransferase (ALT) $\leq 3 \times$ ULN in absence of liver metastases, or $\leq 5 \times$ ULN in presence of liver metastases
- Renal Function
 - Creatinine clearance $\geq 50 \text{ mL/min}$ according to cockroft-Gault formula
- Metabolic Function
 - Magnesium \geq lower limit of normal
 - Calcium \geq lower limit of normal
- Others:
 - CRP (PCT if CRP is elevated to exclude infection)
 - negative urinary screening test for leukocytes and nitrite (U - stix) to exclude urinary tract infection

Exclusion Criteria:

1. Known or suspected allergy or hypersensitivity reaction to any of the components of study treatment or their excipients.
2. Previous therapy with mTOR inhibitor
3. Radiotherapy :
 - Concurrent radiotherapy involving target lesions used for this study.
 - Concurrent palliative radiation (but radiation for non-target lesions is allowed if other target lesions are available outside the involved field)
 - previous pre-operative or post-operative radiotherapy within 3 months before study treatment
4. History of other malignant tumors within the last 5 years, except basal cell carcinoma or curatively excised cervical carcinoma in situ
5. Known brain metastases unless adequately treated (surgery or radiotherapy) with no evidence of progression and neurologically stable off anticonvulsants and steroids
6. Clinically significant cardiovascular disease (including myocardial infarction, unstable angina, symptomatic congestive heart failure, serious uncontrolled cardiac arrhythmia) ≤ 1 year before enrolment
7. Inadequate pulmonary function according to the Investigator's judgment, history of interstitial lung disease e.g. pneumonitis or pulmonary fibrosis or evidence of interstitial lung disease on baseline chest CT scan
8. Known active Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) or HIV infection
9. Serious concomitant disease or medical condition that in the judgment of the investigator renders the patient at high risk from treatment complication
10. Any systemic disease requiring oral intake of corticosteroids (except for replacement therapy of corticosteroids - hydrocortisone in case of adrenal or pituitary insufficiency)
11. Hearing loss \geq Grade 3 (CTCAE v4.03)
12. Patient pregnant or breast feeding, or planning to become pregnant within 8 weeks after the end of treatment
13. Patient (male or female) is not willing to use highly effective methods of contraception (per institutional standard) during treatment and for 8 weeks (male or female) after the end of treatment.
14. Concurrent treatment with other experimental drugs or participation in another clinical trial with any investigational drug within 28 days prior to treatment start
15. Concurrent treatment with inhibitors (e.g. itraconazole, ketoconazole) and inducers (e.g. phenytoin, rifampicin) of Cytochrome P450 3A4 (CYP3A4) and / or the multidrug efflux pump P-glycoprotein (PgP).
16. Known drug abuse/alcohol abuse
17. Peripheral polyneuropathy \geq Grade 2 (CTCAE v4.03)
18. Active chronic inflammatory bowel disease
19. Any condition which might interfere with study objectives (e.g. infections) or would limit the patient's ability to complete the study in the opinion of the investigator
20. Patient who has been incarcerated or involuntarily institutionalized by court order or by the authorities. (AMG §40, Abs. 1 No. 4)
21. Affected persons who might be dependent on the sponsor or the investigator

▶ Contacts and Locations

Choosing to participate in a study is an important personal decision. Talk with your doctor and family members or friends about deciding to join a study. To learn more about this study, you or your doctor may contact the study research staff using the Contacts provided below. For general information, see [Learn About Clinical Studies](#).

Please refer to this study by its ClinicalTrials.gov identifier: NCT02113800

Contacts

Contact: Katrin Krause, B.Sc. +49 30 8145 344 ext 32 Katrin.Krause@aio-studien-ggmbh.de

Locations

Germany

Charité-Universitätsmedizin, Medizinische Klinik m. S. Hepatologie und Gastroenterologie, Campus Virchow-Klinikum

Recruiting

Berlin, Germany, 13353
Contact: Marianne Pavel, Prof. Dr. marianne.pavel@charite.de
Principal Investigator: Marianne Pavel, Prof. Dr.

Sponsors and Collaborators

AIO-Studien-gmbH
Assign Data Management and Biostatistics GmbH
Novartis Pharmaceuticals

Investigators

Principal Investigator: Marianne Pavel, Prof. Dr. Charité-Universitätsmedizin

More Information

Additional Information:

[Working Group for Medical Oncology \(AIO\) from the German Cancer Society \(DKG\)](#) 

No publications provided

Responsible Party: AIO-Studien-gmbH
ClinicalTrials.gov Identifier: [NCT02113800](#) [History of Changes](#)
Other Study ID Numbers: **AIO-NET-0112** CRAD001KDE55T 2012-004550-28
Study First Received: April 8, 2014
Last Updated: August 31, 2015
Health Authority: Germany: Federal Institute for Drugs and Medical Devices

Additional relevant MeSH terms:

Apudoma	Neuroectodermal Tumors
Carcinoid Tumor	Pathologic Processes
Carcinoma	Everolimus
Carcinoma, Neuroendocrine	Sirolimus
Disease Progression	Anti-Bacterial Agents
Neuroendocrine Tumors	Anti-Infective Agents
Adenocarcinoma	Antibiotics, Antineoplastic
Adenoma	Antifungal Agents
Disease Attributes	Antineoplastic Agents
Neoplasms	Immunologic Factors
Neoplasms by Histologic Type	Immunosuppressive Agents
Neoplasms, Germ Cell and Embryonal	Pharmacologic Actions
Neoplasms, Glandular and Epithelial	Physiological Effects of Drugs
Neoplasms, Nerve Tissue	Therapeutic Uses

ClinicalTrials.gov processed this record on February 10, 2016