# REPUBLIC OF LEBANON Lebanon Clinical Trials Registry

RADIANT 4 - Everolimus Plus Best Supportive Care vs Placebo Plus Best Supportive Care in the Treatment of Patients With Advanced Neuroendocrine Tumors (GI or Lung Origin)

13/08/2025 19:29:26

Primary registry identifying number	Protocol number
LBCTR2020011379	CRAD001T2302
MOH registration number	
ص/262	
Study registered at the country of origin	Study registered at the country of origin: Specify
Yes	
Type of registration	Type of registration: Justify
Retrospective	This study was submitted prior to LBCTR initiation
Date of registration in national regulatory agency 13/01/2015	
Primary sponsor	Primary sponsor: Country of origin
Novartis Pharmaceuticals	Novartis Pharmaceuticals
Date of registration in primary registry	Date of registration in national regulatory agency
07/01/2020	13/01/2015
Public title	Acronym
RADIANT 4 - Everolimus Plus Best Supportive Care vs Placebo Plus Best Supportive Care in the Treatment of Patients With Advanced Neuroendocrine Tumors (GI or Lung Origin)	
Scientific title	Acronym
A Randomized, Double-blind, Multicenter, Phase III Study of Everolimus (RAD001) Plus Best Supportive Care Versus Placebo Plus Best Supportive Care in the Treatment of Patients With Advanced NET of GI or Lung Origin	
Brief summary of the study: English	
The purpose of this study is to compare the antitumor activity of everolimus plus best supportive care versus placebo plus best supportive care in patients with advanced nonfunctional neuroendocrine tumor of gastrointestinal or lung origin.	
Brief summary of the study: Arabic	
(RAD001) إيفيروليموسEverolimusدراسة عشوانية ومتعددة المراكز في المرحلة الثالثة لدواء م علاج المرضى المصابين بحالة متقدمة من أورام الغدد الصم العصبية يكون مصدرها معديًا معويًا أو 4مشع-(RADIANT-4) - رئويًا	بالإضافة إلى أفضل عناية داعمة مقابل( العلاج الإرضائي وأفضل عناية داعمة في
Health conditions/problem studied: Specify	
Advanced Nonfunctional NeuroEndocrine Tumor	
Interventions: Specify	
•Drug: Everolimus After randomization, patients will receive everolimus once daily until dise	

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•Drug: Everolimus Placebo After randomization, patients will receive everolimus placebo once daily until disease progression, intolerable toxicity, or consent withdrawal				
Key inclusion and exclusion criteria: Inclusion criteria				
<ul> <li>Pathologically confirmed, well differentiated (G1 or G2), advanced (unresectable or metastatic), neuroendocrine tumor of GI or lung origin</li> <li>No history of and no active symptoms related to carcinoid syndrome</li> <li>In addition to treatment-naive patients, patients previously treated with SSA, Interferon (IFN), one prior line of chemotherapy, and/or PRRT a allowed into the study. Pretreated patients must have progressed on or after the last treatment</li> <li>Radiological documented disease progression within 6 months prior to randomization</li> <li>WHO performance status ≤1</li> <li>Adequate bone marrow, liver and renal function</li> </ul>				
Key inclusion and exclusion criteria: Gender	Key inclusion and exclusion criteria: Specify gender			
Both				
Key inclusion and exclusion criteria: Age minimum	Key inclusion and exclusion criteria: Age maximum			
18	99			
Key inclusion and exclusion criteria: Exclusion criteria				
<ul> <li>Patients with poorly differentiated neuroendocrine carcinoma, high-grade n carcinoma, insulinoma, glucagonoma, gastrinoma, goblet cell carcinoid, large</li> <li>Patients with pancreatic NET or NET of origins other than GI or Lung</li> <li>Patients with history of or active symptoms of carcinoid syndrome (e.g. flus</li> <li>Patients with more than one line of prior chemotherapy</li> <li>Prior targeted therapy</li> <li>Hepatic locoregional therapy within the last 6 months</li> <li>Prior therapy with mTOR inhibitors (e.g. sirolimus, temsirolimus, deforolimu</li> <li>Known intolerance or hypersensitivity to everolimus or other rapamycin ana</li> <li>Known impairment of gastrointestinal (GI) function or GI disease that may s</li> <li>Uncontrolled diabetes mellitus as defined by HbA1c &gt;8% despite adequate</li> </ul>	ge cell neuroendocrine carcinoma and small cell carcinoma shing, diarrhea) Is) alogs (e.g. sirolimus, temsirolimus) significantly alter the absorption of oral everolimus			
<ul> <li>Patients who have any severe and/or uncontrolled medical conditions such as:</li> <li>unstable angina pectoris, symptomatic congestive heart failure, myocardial infarction ≤6 months prior to randomization, serious uncontrolled cardiac arrhythmia</li> <li>active or uncontrolled severe infection</li> <li>liver disease such as cirrhosis, decompensated liver disease, and chronic hepatitis (i.e. quantifiable HBV-DNA and/or positive HbsAg, quantifiable HCV-RNA)</li> </ul>				
<ul> <li>Chronic treatment with corticosteroids or other immunosuppressive agents</li> <li>Known history of HIV seropositivity</li> <li>Pregnant or nursing (lactating) women</li> </ul>				
Other protocol-defined inclusion/exclusion criteria may apply.				
Type of study				
Interventional				
Type of intervention	Type of intervention: Specify type			
Pharmaceutical	N/A			
Trial acono	Trial acons: Specify coope			
Trial scope Therapy	Trial scope: Specify scope N/A			
Потару				
Study design: Allocation	Study design: Masking			
Randomized controlled trial	Open (masking not used)			
Study design: Control	Study phase			
Placebo	3			
Study design: Purpose	Study design: Specify purpose			
Treatment N/A				
Study design: Assignment Study design: Specify assignment				

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Parallel	N/A
IMP has market authorization	IMP has market authorization: Specify
Yes, Lebanon and Worldwide	Austria, Belgium, Canada, China, Colombia, Czechia, Germany,
Name of IMP	Year of authorization Month of authorization
everolimus (RAD001)	2010 5
Type of IMP	
Cell therapy	
Pharmaceutical class	
proliferation signal inhibitor in the mammalian target of rapamycin (mTOR)	
Therapeutic indication	
proliferation signal inhibitor in the mammalian target of rapamycin (mTOR)	
Therapeutic benefit	
Progression Free Survival (PFS)	
Study model	Study model: Explain model
N/A	N/A
Study model: Specify model	
N/A	
Time perspective	Time perspective: Explain time perspective
N/A	N/A
Time perspective: Specify perspective	
N/A	
Target follow-up duration	Target follow-up duration: Unit
Number of groups/cohorts	
Biospecimen retention	Biospecimen description
Samples without DNA	Samples are sent to central quintiles laboratories
Target sample size	Actual enrollment target size
5	5
Date of first enrollment: Type	Date of first enrollment: Date
Actual	25/09/2012
Date of study closure: Type	Date of study closure: Date



Actual	31/12/2021
Recruitment status Complete	Recruitment status: Specify
Date of completion 17/07/2013	
IPD sharing statement plan	IPD sharing statement description
No	Novartis is committed to sharing with qualified external researchers, access to patient-level data and supporting clinical documents from eligible studies. These requests are reviewed and approved by an independent review panel on the basis of scientific merit. All data provided is anonymized to respect the privacy of patients who have participated in the trial in line with applicable laws and regulations.
	This trial data availability is according to the criteria and process described on www.clinicalstudydatarequest.com
Additional data URL	
https://clinicaltrials.gov/ct2/show/record/NCT01524783	
Admin comments	

#### Trial status

Approved

Secondary Identifying Numbers	
Full name of issuing authority	Secondary identifying number
Clinical trials.gov	NCT01524783

## Sources of Monetary or Material Support

Name

Novartis Pharmaceuticals

### **Secondary Sponsors**

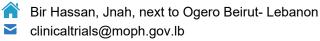
Name NA



Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Ali Shamseddin	Beirut	Lebanon	03344277	as04@aub.edu.l b	American University of beirut Medical Center
Scientific	Hind Khairallah	Sin elfil	Lebanon	01512002# 271	Hind.Khairallah@ fattal.com.lb	Khalil Fattal et Fils s.a.l.
Public	Joseph Kattan	Beirut	Lebanon	011424942	jkattan62@hotm ail.com	Hotel Dieu De France

Centers/Hospitals Involved in the Study			
Center/Hospital name	Name of principles investigator Principles investigator Speciality Ethical approval		
American University of Beirut Medical Center	Ali Shamseddin	Hematology	Approved
Hotel Dieu De France	Joseph Kattan	Hematology	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
American University of Beirut Medical Center	11/03/2013	Fuad Ziyadeh	fz05@aub.edu.lb	961 (0) 1 350 000 ext:5445
Hotel Dieu de France	07/05/2012	Nancy Alam	nancy.alam@usj.edu.lb	961 (0) 1 421000 ext 2335





## **Countries of Recruitment**

Name
Lebanon
Australia
Belgium
Canada
China
Colombia
Greece
Italy
Norway
Saudi Arabia
Turkey
United Arab Emirates
United States of America

Health Conditions or Problems Studied		
Condition Code Keyword		
Neuroendocrine tumor	Endocrine gland, unspecified (C75.9)	Neuroendocrine tumor

Interventions		
Intervention	Description	Keyword
ICF, Lab tests , physical exam, radiology	ICF, Lab tests , physical exam, radiology	ICF, Lab tests , physical exam, radiology

Primary Outcomes		
Name	Time Points	Measure
Progression Free Survival (PFS) Based on Central Radiology Assessment Per Kaplan-Meier	18 months	18 months



Key Secondary Outcomes		
Name	Time Points	Measure
•Overall Survival (OS) Using Kaplan-Meier	18 Months	18 Months
•Overall Safety Evaluation of Everolimus Versus Placebo	5 years	5 years

Trial Results	
Summary results	
Study results globally	
Date of posting of results summaries	Date of first journal publication of results
Results URL link	
Baseline characteristics	
Participant flow	
Adverse events	
Outcome measures	
URL to protocol files	