REPUBLIC OF LEBANON Ministry of Public Health Lebanon Clinical Trials Registry

Study of Safety and Efficacy of LNP023 in Patients With Kidney **Disease Caused by Inflammation**

20/08/2025 05:55:14

Primary registry identifying number	Protocol number
LBCTR2020023394	CLNP023X2203
MOH registration number	
4352/2020	
Study registered at the country of origin	Study registered at the country of origin: Specify
Yes	
Type of registration	Type of registration: Justify
Prospective	N/A
Date of registration in national regulatory agency 07/02/2020	
Primary sponsor	Primary sponsor: Country of origin
Novartis Pharmaceuticals	Novartis Pharmaceuticals
Date of registration in primary registry	Date of registration in national regulatory agency
04/01/2021	07/02/2020
Public title	Acronym
Study of Safety and Efficacy of LNP023 in Patients With Kid Disease Caused by Inflammation	ney
Scientific title	Acronym
An Adaptive Seamless Randomized, Double-blind, Placebo- controlled, Dose Ranging Study to Investigate the Efficacy a Safety of LNP023 in Primary IgA Nephropathy Patients	
Brief summary of the study: English	
Efficacy and safety of LNP023 in IgAN patients	
Brief summary of the study: Arabic	
ية مستندة على المقارنة بدواء وهميّ متفاوتة الجر عات للبحث في فعاليّة وسلامة دواء مرضى المصابين باعتلال الكلية الأساسي الناتج عن الغلوبولين المناعي أ	در اسة تكييفيَّة موحّدة عشوائيّة التوزيع مزدوجة التعم لدى ال
Health conditions/problem studied: Specify	
Patients with IgA nephropathy	
Interventions: Specify	
•Drug: LNP023 LNP023 b.i.d. Dose 1, Dose 2 and Dose 3	
•Drug: Placebo Placebo to LPN023 b.i.d	
Key inclusion and exclusion criteria: Inclusion criteria	
	psy-verified IgA nephropathy and where the biopsy was performed within the prior
three years. •Patients must weigh at least 35 kg to participate in the stud	y, and must have a body mass index (BMI) within the range of 15 - 38 kg/m2. BMI =

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 Urine protein ≥1 g/24hr at screening and ≥0.75 g / 24h after the run- in per Vaccination against Neisseria meningitidis types A, C, Y and W-135 is req against N. meningitidis type B, S. pneumoniae and H. influenzae should be 30 days prior to first dosing with LNP023 	asured Glomerular Filtration Rate (GFR) or estimated GFR (using the CKD-EPI formula) ≥30 mL/min per 1.73 m2 the protein ≥1 g/24hr at screening and ≥0.75 g / 24h after the run- in period cination against Neisseria meningitidis types A, C, Y and W-135 is required at least 30 days prior to first dosing with LNP023. Vaccinatio nst N. meningitidis type B, S. pneumoniae and H. influenzae should be conducted if available and acceptable by local regulations, at leas ays prior to first dosing with LNP023 patients must have been on supportive care including a maximally tolerated dose of ACEi or ARB therapy for the individual,		
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		
Key inclusion and exclusion criteria: Exclusion criteria			
Exclusion criteria 1.Presence of crescent formation in ≥50% of glomeruli assessed on renal b 2.Patients previously treated with immunosuppressive agents such as cycle systemic corticosteroids exposure within 90 days prior to start of LNP023/F 3.Use of other investigational drugs at the time of enrollment, or within 5 has longer if required by local regulations 4.All transplanted patients (any organ, including bone marrow)	ophosphamide or mycophenolate mofetil (MMF), or cyclosporine, Placebo dosing		
5.History of immunodeficiency diseases, or a positive HIV (ELISA and Wes	stern blot) test result.		
Chronic infection with Hepatitis B (HBV) or Hepatitis C (HCV). A positive H positive HBV core antigen test, excludes a patient. Patients with a positive Subjects with positive (detectable) HCV RNA should be excluded			
 6.Any surgical or medical condition which might significantly alter the absorpediate the subject in case of participation in the study. The Investigator medical history and/or clinical or laboratory evidence of any of the following A history of invasive infections caused by encapsulated organisms, e.g. m Splenectomy Inflammatory bowel disease, peptic ulcers, severe gastrointestinal disorde Major gastrointestinal tract surgery such as gastrectomy, gastroenterostor Pancreatic injury or pancreatitis; Liver disease or liver injury as indicated by abnormal liver function tests. A bilirubin will be tested. Any single parameter of ALT, AST, GGT, alkaline phosphatase or serum to PT/INR must be within the reference range of normal individuals Evidence of urinary obstruction or difficulty in voiding any urinary tract disc and before dosing; [If necessary, laboratory testing may be repeated on on any laboratory error] 	should make this determination in consideration of the subject's g: eningococcus or pneumococcus or including rectal bleeding; my, or bowel resection; LT (SGPT), AST (SGOT), GGT, alkaline phosphatase and serum bilirubin must not exceed 3 x upper limit of normal (ULN) order other than IgNA that is associated with hematuria at screening		
7.Pregnant or nursing (lactating) women, where pregnancy is defined as th gestation, confirmed by a positive hCG laboratory test.	e state of a female after conception and until the termination of		
8.A history of clinically significant ECG abnormalities, or any of the followin °PR > 200 msec °QRS complex > 120 msec °QTCF > 450 msec (males) °QTCF > 460 msec (females) °History of familial long QT syndrome or known family history of Torsades o °Use of agents known to prolong the QT interval unless they can be perma	de Pointes		

9. History of severe allergic reactions as per Investigator decision

10.Plasma donation (> 200mL) within 30 days prior to first dosing.

11.Donation or loss of 400 mL or more of blood within eight (8) weeks prior to initial dosing, or longer if required by local regulation

12.Women of child-bearing potential, defined as all women physiologically capable of becoming pregnant, unless they are using highly effective methods of contraception during dosing and for 1 week after stopping of investigational drug. Highly effective contraception methods include: •Total abstinence from heterosexual intercourse (when this is in line with the preferred and usual lifestyle of the subject). Periodic abstinence (e.g., calendar, ovulation, symptothermal, post-ovulation methods) and withdrawal are not acceptable methods of contraception.

•Female sterilization (have had surgical bilateral oophorectomy with or without hysterectomy), total hysterectomy or tubal ligation at least six weeks before taking investigational drug. In case of oophorectomy alone, only when the reproductive status of the woman has been confirmed by follow up hormone level assessment.

•Male sterilization (at least 6 months prior to screening). For female subjects on the study the vasectomized male partner should be the sole partner for that subject.

·Use of oral (estrogen and progesterone), injected or implanted hormonal methods of contraception or placement of an intrauterine device

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(IUD) or intrauterine system (IUS) or other forms of hormonal contraception that have comparable efficacy (failure <1%), for example hormone vaginal ring or transdermal hormone contraception In case of use of oral contraception women should have been stable on the same pill for a minimum of 3 months before taking investigational drug.

If local regulations deviate from the contraception methods listed above and require more extensive measures to prevent pregnancy, local regulations apply and will be described in the ICF.

Women are considered post-menopausal and not of child bearing potential if they have had 12 months of natural (spontaneous) amenorrhea with an appropriate clinical profile (e.g. age appropriate, history of vasomotor symptoms) or have had surgical bilateral oophorectomy (with or without hysterectomy), total hysterectomy or tubal ligation at least six weeks ago. In the case of oophorectomy alone, only when the reproductive status of the woman has been confirmed by follow up hormone level assessment is she considered not of child bearing potential.

13. History of malignancy of any organ system (other than localized basal cell carcinoma of the skin or in-situ cervical cancer), treated or untreated, within the past 5 years, regardless of whether there is evidence of local recurrence or metastases

14. History of any porphyria metabolic disorder

15. History of drug or alcohol abuse within the 12 months prior to dosing, or evidence of such abuse as indicated by the laboratory assays conducted during screening and baseline.

16. History of hypersensitivity to any of the study treatments or excipients or to drugs of similar chemical classes

Type of study

Interventional

Type of intervention Pharmaceutical	Type of intervention: Specify type N/A
Trial scope Safety	Trial scope: Specify scope N/A
Study design: Allocation	Study design: Masking
Randomized controlled trial Study design: Control	Blinded (masking used) Study phase
Placebo	2
Study design: Purpose Treatment	Study design: Specify purpose N/A
Study design: Assignment	Study design: Specify assignment
IMP has market authorization	IMP has market authorization: Specify
Name of IMP LNP023	Year of authorization Month of authorization

Type of IMP

Others

Pharmaceutical class

LNP023 is a first-in-class, oral, low molecular weight (LMW) inhibitor of Factor B (FB)

Therapeutic indication

Patients with: IgA Nephropathy

Therapeutic benefit

LNP023 has not been previously administered with therapeutic intent to patients with IgAN. Therefore, no statement can be made at this time on the actual clinical benefits of LNP023 in this patient population. However, given the mechanism of action of LNP023 targeting the complement system, there is good rationale to believe that a therapeutic response can be achieved with the compound in patients with IgAN.

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Study model	Study model: Explain model
N/A	N/A
Study model: Specify model N/A	
Time perspective	Time perspective: Explain time perspective
Time perspective: Specify perspective N/A	
Target follow-up duration	Target follow-up duration: Unit
Number of groups/cohorts	
Biospecimen retention	Biospecimen description
Samples with DNA**	Samples are shipped to Q2 central Lab
Target sample size 4	Actual enrollment target size
Date of first enrollment: Type	Date of first enrollment: Date
Anticipated	29/05/2020
Date of study closure: Type	Date of study closure: Date
Anticipated	28/10/2021
Recruitment status	Recruitment status: Specify
Other	Recruitment reached globally - study will not start in Lebanon
Date of completion	
IPD sharing statement plan	IPD sharing statement description
Yes	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.
Additional data URL	This trial data availability is according to the criteria and process described on www.clinicalstudydatarequest.com

Additional data URL

https://www.clinicaltrials.gov/ct2/show/record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT03373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT0373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT0373&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT0373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT0373461?term=LNP023&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT0373&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT0373&recrs=a&cond=lgA+Nephropathy&rank=1&view=record/NCT037&recrady&record/NCT037&record/





Admin comments

Trial status

Approved

Secondary Identifying Numbers		
Full name of issuing authority	Secondary identifying number	
Clinical Trials.gov	NCT03373461	

Sources of Monetary or Material Support		
Name		
Novartis Pharmaceuticals		

Secondary Sponsors	
Name	
NA	

Contac	Contact for Public/Scientific Queries					
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Hilal AbuZeinab	Saida	Lebanon	961381161 1	hilal@abouzeina b.com	Hammoud Hospital University Medical Center
Scientific	Hind Khairallah	Sin El Fil	Lebanon	009615120 02#271	Hind.Khairallah@ fattal.com.lb	Khalil Fattal et Fils s.a.l.

	Centers/Hospitals Involved in the Study			
Center/Hospital name		Name of principles investigator	Principles investigator speciality	Ethical approval
	Hammoud Hospital UNiversity Medical Center	Hilal Abu Zainab	Nephrologist	Approved





Ethics Review					
Ethics approval obtained Approval date		Contact name	Contact email	Contact phone	
Hammoud Hospital University Medical 20/12/2019 Center		Ahmad Zaatari	zaatari@hammoudhospital.com	961 (0) 7 723111 ext 1160	





Health Conditions or Problems Studied		
Condition	Code Keyword	
IgA nephropathy	Kidney (D41.0)	IgA nephropathy

Interventions			
Intervention	Description	Keyword	
ICF, Lab tests, Physical Assessment, IMP addministration, kidney biopsy if applicable	ICF, Lab tests, Physical Assessment, IMP addministration, kidney biopsy if applicable	ICF, Lab tests, Physical Assessment, IMP addministration, kidney biopsy if applicable	

Primary Outcomes			
Name	Time Points	Measure	
change from baseline of urine protein to creatinine concentration	Baseline and Day 90	Baseline and Day 90	
baseline of urine protein to creatinine concentration ratio	90 days	90 days	

Key Secondary Outcomes			
Name	Time Points	Measure	
•The effect of LNP023 on renal function - Estimated Glomerular Filtration Rate eGFR	Baseline, Day 1, 8, 15, 30, 90, 120	Baseline, Day 1, 8, 15, 30, 90, 120	
•The effect of LNP023 on renal function - Serum creatinine	Baseline, Day 1, 8, 15, 30, 90, 120	Baseline, Day 1, 8, 15, 30, 90, 120	
•The effect of LNP023 on renal function - Hematuria	Baseline, Day 1, 8, 15, 30, 60, 90, 120, 180	Baseline, Day 1, 8, 15, 30, 60, 90, 120, 180	
•The effect of LNP023 on renal function - 24h-UP, 24h-UA, UACR (urine albumin to creatinine concentration ratio)	Baseline, Day 1, 30, 60, 90, 120, 180	Baseline, Day 1, 30, 60, 90, 120, 180	



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