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Zephyrus II: Efficacy and Safety Study of Pamrevlumab in Subjects With Idiopathic Pulmonary Fibrosis (IPF)

11/09/2025 14:13:03

Primary registry identifying number	Protocol number
LBCTR2020094566	FGCL-3019-095
MOH registration number	
30220/2020	
Study registered at the country of origin	Study registered at the country of origin: Specify
No	No
Type of registration	Type of registration: Justify
Prospective	N/A
Date of registration in national regulatory agency 08/09/2020	
Primary sponsor	Primary sponsor: Country of origin
FibroGen Inc.	United States of America
Date of registration in primary registry	Date of registration in national regulatory agency
18/07/2024	08/09/2020
Public title	Acronym
Zephyrus II: Efficacy and Safety Study of Pamrevlumab in Subjects With Idiopathic Pulmonary Fibrosis (IPF)	
Scientific title	Acronym
Zephyrus II: A Phase 3, Randomized, Double-Blind, Placebo- Controlled Efficacy and Safety Study of Pamrevlumab in Subjects with Idiopathic Pulmonary Fibrosis (IPF)	
Brief summary of the study: English	
This is a Phase 3 trial to evaluate the efficacy and safety of 30 mg/kg intravenous (IV) infusions of pamrevlumab administered every 3 weeks as compared to placebo in subjects with Idiopathic Pulmonary Fibrosis	
Brief summary of the study: Arabic	
هذه تجربة Pamrevluma مجم / كجم من30لتقييم فعالية وسلامة الحقن الوريدي ل- Phase 3 هذه تجربة الأشخاص المصابين بالتليف الرئوي مجهول السبب	أسابيع مقارنة بالدواء الوهمي عند3كل ab
Health conditions/problem studied: Specify	
Idiopathic Pulmonary Fibrosis	
Interventions: Specify	
*Drug: Pamrevlumab (FG-3019) Pamrevlumab: 30 mg/kg by intravenous infusion every 3 weeks for a t	total of 17 infusions over 48 weeks
*Drug: Placebo Placebo: 30 mg/kg by intravenous infusion every 3 weeks for a total or	f 17 infusions over 48 weeks
Key inclusion and exclusion criteria: Inclusion criteria	
1. Age 40 to 85 years, inclusive, at screening initiation.	

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3. IPF diagnosis within the past 7 years, with onset defined as the date of the first recorded diagnosis of IPF by HRCT and/or surgical biopsy (SLB) or other appropriate tissue samples (e.g., cryobiopsy) in the medical history. 4. Interstitial pulmonary fibrosis defined by HRCT scan at Screening, with evidence of ≥10% to <50% parenchymal fibrosis (reticulation) and

<25% honeycombing, within the whole lung. NOTE: this requires confirmation by an Independent Radiology Imaging Review Group, prior to randomization. If a recent HRCT scan (within 3 months prior to screening) is available, it can be utilized for screening purposes, provided it is submitted and evaluated by the Independent Radiology Imaging Review Group, is adhering to the imaging parameters detailed in the Imaging Core Manual (ICM), and is using the same accredited scanner as the on-study HRCT scans.

5. FVCpp value ≥50% and ≤80% at Screening and Day 1.

MINISTRY OF PUBLIC HEALTH

6. Diffusing capacity of the lungs for carbon monoxide (DLCO) percent predicted and corrected by Hb value >30% and <90% at Screening (determined locally).

7. Both FVC and DLCO testing must be representative of the IPF underlying disease (i.e. have been obtained in absence of an acute respiratory event [e.g. lung infection, cold] or other events that are known to affect PFT testing results [e.g., broken rib, chest pain, other]).

8. Previously treated with an approved IPF therapy (i.e., pirfenidone or nintedanib) but discontinued at least 1 week prior to screening, unless neither treatment is available in the host country. NOTE: no subject should discontinue approved therapy for the purpose of enrolling in this study.

9. Male subjects with partners of childbearing potential and female subjects of childbearing potential (including those <1 year postmenopausal) must use double barrier contraception methods during the conduct of the study, and for 3 months after the last dose of study drug. Women not of childbearing potential are defined as:

a. Post-menopausal women (defined as at least 12 months with no menses without an alternative medical cause); in women < 45 years of age, a high follicle-stimulating hormone (FSH) level in the post-menopausal range may be used to confirm a post-menopausal state in women not using hormonal contraception or hormonal replacement therapy; OR

b. Have had a hysterectomy and/or bilateral oophorectomy, bilateral salpingectomy, or bilateral tubal ligation/occlusion, at least 6 weeks prior to screening; OR

c. Have a congenital or acquired condition that prevents childbearing.

10. Able to understand and sign a written informed consent form.

Key inclusion and exclusion criteria: Gender

Both

Key inclusion and exclusion criteria: Age minimum

40

Key inclusion and exclusion criteria: Age maximum

Key inclusion and exclusion criteria: Specify gender

85

Key inclusion and exclusion criteria: Exclusion criteria

1. Previous exposure to pamrevlumab.

2. Evidence of significant obstructive lung disease by any of the following criteria: (1) forced expiratory volume in 1 second/forced vital capacity (FEV1/FVC) ratio <0.70, or (2) extent of emphysema greater than the extent of fibrosis on HRCT. NOTE: this requires confirmation by an Independent Radiology Imaging Review Group, prior to randomization.

3. Female subjects who are pregnant or nursing.

4. Smoking within 3 months of Screening and/or unwilling to avoid smoking throughout the study.

5. Interstitial lung disease (ILD) other than IPF, including but not limited to any of the other types of idiopathic interstitial pneumonia; lung diseases related to exposure to fibrogenic agents or other environmental toxins or drugs; other types of occupational lung diseases; granulomatous lung diseases; pulmonary vascular diseases; systemic diseases, including vasculitis, infectious diseases (i.e. TB) and connective tissue diseases. In cases of uncertain diagnosis, serological testing and/or review by the multi-disciplinary team should be performed to confirm the diagnosis of IPF vs. other types of ILD.

6. Sustained improvement in the severity of IPF during the 12 months prior to Screening, based on changes in FVC, DLCO, and/or HRCT scans of the chest.

7. History of other types of respiratory diseases, including diseases or disorders of the airways, lung parenchyma, pleural space, mediastinum, diaphragm, or chest wall that, in the opinion of the Investigator, would impact the primary protocol endpoint or otherwise preclude the subject's participation in the study.

8. Medical conditions (e.g. Ml/stroke within the past 6 months), or logistical challenges that in the opinion of the Investigator preclude the subject's adequate participation in the study.

9. Poorly controlled chronic heart failure (NYHA Class 3 or above): clinical diagnosis of cor pulmonale requiring specific treatment; or severe pulmonary arterial hypertension requiring specific treatment that, in the opinion of the Investigator, would preclude the subject's participation in the study.

10. Clinically important abnormal laboratory tests (including serum creatinine ≥1.5 x upper limit of normal [ULN], hemoglobin (Hb) <10 g/dL, white blood cells <3,000/mm3, platelets less than 100,000/mm3, serum total bilirubin >1.5 x ULN, serum alanine aminotransferase (ALT) or aspartate aminotransferase (AST) $\geq 2 \times ULN$, or serum alkaline phosphatase $\geq 2 \times ULN$.

11. Ongoing acute IPF exacerbation, or suspicion of such process by the Investigator, during Screening or Randomization.

12. High likelihood of lung transplantation (in the opinion of the Investigator) within 6 months after Day 1.

13. Use of any investigational drugs or unapproved therapies, or participation in any clinical trial with an investigational new drug within 30 days prior to screening.

14. Daily use of PDE-5 inhibitor drugs (e.g. sildenafil, tadalafil) except for treatment of severe pulmonary artery hypertension.

15. Any current malignancy (this does not include localized cancer such as basal or squamous cell carcinoma of the skin). Any history of malignancy likely to result in mortality, or requiring significant medical or surgical intervention within the next year.

16. History of allergic or anaphylactic reaction to human, humanized, chimeric or murine monoclonal antibodies.

17. Any condition (other than IPF) that is likely to result in the death of the patient within the next year.

18. The Investigator judges that the subject will be unable to fully participate in the study and complete it for any reason, including the inability to comply with study procedures and treatment, addiction, or any other relevant medical or psychiatric conditions.

Type of study

Interventional

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Type of intervention	Tune of intervention: Specify to	1 120
Pharmaceutical	Type of intervention: Specify ty N/A	ybe
Trial scope	Trial scope: Specify scope	
Other		
Study design: Allocation	Study design: Masking	
Randomized controlled trial	Blinded (masking used)	
Study design: Control	Study phase	
Placebo	3	
Study design: Purpose Treatment	Study design: Specify purpose	3
Study design: Assignment	Study design: Specify assignm	nent
Parallel	N/A	
IMP has market authorization	IMP has market authorization:	Specify
No		
Name of IMP	Year of authorization	Month of authorization
Pamrevlumab (FG-3019)		
Type of IMP		
Others		
Pharmaceutical class	monoclanal antibady that	
Pamrevlumab is a recombinant fully human immunoglobulin G1 (IgG) kappa binds to connective tissue growth factor (CTGF)	a monocional antibody that	
Therapeutic indication		
Idiopathic Pulmonary Fibrosis		
Therapeutic benefit	a mana da se da se fila da s	
Pamrevlumab is a recombinant fully human immunoglobulin G1 (IgG1) kappendent which inhibits the activity of connective tissue growth factor (CTGF).	da monocional antibody	
Study model	Study model: Explain model	
N/A	N/A	
Study model: Specify model		
Time perspective N/A	Time perspective: Explain time	e perspective
Time perspective: Specify perspective N/A		
Target follow-up duration	Target follow-up duration: Unit	
	rarger ionow-up duration. Unit	
Number of groups/cohorts		

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Biospecimen retention Biospecimen description Samples without DNA Samples with DNA is optional Target sample size Actual enrollment target size 7 Date of first enrollment: Type Date of first enrollment: Date 15/10/2020 Anticipated Date of study closure: Type Date of study closure: Date Anticipated 06/06/2024 **Recruitment status Recruitment status: Specify** Complete Date of completion 31/03/2023 IPD sharing statement plan IPD sharing statement description Confidential Info No Additional data URL Admin comments **Trial status** Approved

Secondary Identifying Numbers Full name of issuing authority Secondary identifying number ClinicalTrials.gov NCT04419558 EU Clinical Trials Register 2020-000697-22

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Sources of Monetary or Material Support

Name

FibroGen Inc.- USA

Secondary Sponsors Name N/A

Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Dr. Samer Kabbani	Beirut	Lebanon	961174477 2	kabbanisamer@ hotmail.com	Rafik Hariri University Hospital
Scientific	Dr. Moussa Riachi	Beirut	Lebanon	961161507 5	moussariachy@g mail.com	Hotel Dieu de France Hospital

Centers/Hospitals Involved in the Study			
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval
Hotel Dieu de France Hospital	Dr. Moussa Riachy	Pulmonary Medicine	Approved
Rafic Hariri University Hospital	Dr. Samer Kabbani	Cardiology	Approved
American University of Beirut Medical Center	Dr. Pierre Bou Khalil	Internal Medicine	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Hotel Dieu de France	05/05/2020	Pr. Sami Richa	cue@usj.edu.lb	+9611421229
Rafic Hariri University Hospital	03/06/2020	Dr. Iyad Issa	N/A	+9611830000
American University of Beirut Medical Center	30/12/2020	Dr. Fuad Ziyadeh	NA	+9611350000





Countries of Recruitment

Name
France
Lebanon
Italy
Hungary
Netherlands
Germany
United Kingdom
Spain
Denmark
Czech Republic
Georgia
Hungary

Health Conditions or Problems Studied			
Condition	Code	Keyword	
Idiopathic Pulmonary Fibrosis	Other diseases of pulmonary vessels (I28)	Idiopathic Pulmonary Fibrosis IPF Idiopathic Interstitial Pneumonia Interstitial Lung Disease Lung Fibrosis, Pulmonary Fibrosis Idiopathic Pulmonary Fibrosis Fibrosis Pathologic Processes, Lung Diseases Respiratory Tract Diseases Idiopathic Interstitial Pneumonias Lung Diseases, Interstitial	

Interventions		
Intervention	Description	Keyword
Drug	Pamrevlumab	FG-3019
Drug	Placebo	N/A





Primary Outcomes			
Name	Time Points	Measure	
Proportion of subjects with Disease Progression	Baseline to Week 52	absolute FVC percent predicted (FVCpp) decline of ≥10% or death	

Key Secondary Outcomes			
Name	Time Points	Measure	
Change in FVC (L)	Baseline to Week 52	FVC (L)	
Change in FVCpp	Baseline to Week 52	Change in FVCpp (absolute and relative)	
Composite of clinical outcomes	Baseline to Week 52	Respiratory hospitalization or death or absolute FVCpp decline ≥10%, whichever occurs first	
Respiratory hospitalizations	Baseline to Week 52	Respiratory hospitalizations	
Change in Quantitative Lung Fibrosis (QLF) volume	Baseline to Week 52	Quantitative Lung Fibrosis (QLF) volume	
Change in St. George's Respiratory Questionnaire (SGRQ) score	Baseline to Week 48	St. George's Respiratory Questionnaire (SGRQ) score	
Change in University of California San Diego – Shortness of Breath Questionnaire (UCSD-SOBQ) score	Baseline to Week 48	University of California San Diego – Shortness of Breath Questionnaire (UCSD-SOBQ) score	
Change in Leicester Cough Questionnaire (LCQ)	Baseline to Week 48	Leicester Cough Questionnaire (LCQ)	
All-cause mortality	During whole study duration	Death	
Acute IPF exacerbations	During whole study duration	N/A	



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