Registration	CTR20210349	Trial Status	Completed
Number			
Applicant	Ting Zhang	Initial Disclosure	2021-03-01
		Date	
Sponsor Name	Regend Therapeutics XLotus (Jiangxi) Co, Ltd.		

1. Title and Background Information

Registration Number	CTR20210349	
Related Registration Number	NA	
Drug Name	REGEND001 Autologous Therapy Product	
Drug Categories	Biological products	
Clinical Trial Application	Private	
Number		
Indications	Early and mid-stage idiopathic pulmonary fibrosis	
	(IPF)	
Official Title	An Open-label Clinical Study to Explore the Safety,	
	Tolerability and Preliminary Efficacy of REGEND001	
	Autologous Therapy Product for Treatment of	
	Idiopathic Pulmonary Fibrosis (IPF).	
Common Title	Exploratory Study of REGEND001 Autologous	
	Therapy Product for the Treatment of Idiopathic	
	Pulmonary Fibrosis (IPF)	
Protocol Number	XHYX-IND-IPF-P1	
Latest Version Number	V4.0	
Date of Latest Version	2021-05-18	
Combination Therapy	No	

2.Sponsor Information

Sponsor Name	Regend Therapeutics XLotus (Jiangxi) Co, Ltd.		
Applicant	Ting Zhang Landline 021-60646685		021-60646685
		Number	
Mobile Number	18516646727	Email	winnie-tzhang@regend.cn
		Address	
Contact Address	Building 8, Nanchang	Contact	330096
	National	Postcode	
	Pharmaceutical		

International	
Innovation Park Joint	
Research Institute,	
269 Aixi Lake North	
Road, High-tech	
Development Zone,	
Nanchang, Jiangxi	
Province	

3. Clinical Trial Information

(1). Trial Objective:

Primary Objective:

To evaluate the safety and tolerability of different doses of REGEND001 autologous therapy product for the treatment of idiopathic pulmonary fibrosis (IPF).

Secondary Objective:

To assess the efficacy of different doses of REGEND001 autologous therapy product for the treatment of IPF and recommend appropriate cell therapy doses for subsequent clinical studies.

clinical studies.	
(2). Trial design	
Trial	Safety and efficacy
Classification	
Trial Phase	Exploratory Phase 1 clinical trial
Design Type	Single-arm trial
Randomization	Non-randomized
Blinding	Open-label
Trial Scope	Domestic trials
(3). Subject Info	ormation
Age	50 to 75 years old (Including ages 50 and 75)
Sexes Eligible	Male and Female
for Study	
Accept Healthy	No
Volunteers	
Inclusion	1). Male or female, aged between 50 to 75 (Including ages 50 and
Criteria:	75);
	2). Subjects diagnosed with IPF according to guidelines for the
	diagnosis of idiopathic pulmonary fibrosis 2018 edition;
	3). Subjects with 30%~79% of the predicted value in diffusing
	capacity for carbon monoxide (DLCO) and more than 50% of the
	predicted value in forced vital capacity (FVC) in pulmonary function
	tests 3 months before screening;
	4). Subjects with typical High-resolution computed tomography (HR-

- CT) imaging findings of idiopathic pulmonary fibrosis in the past 12 months:
- 5). Subjects tolerant to bronchofiberscope;
- 6). Subjects fully informed of the purpose, method and possible discomfort of the trial, agreeing to participate in the test, and voluntarily signing the informed consent;
- 7). Subjects with good adherence, willingness to take medication and regular follow-up examinations as required by the protocol;
- 8). Subjects able to understand and cooperate with the completion of pulmonary function tests.

Exclusion Criteria:

- 1) Subjects who cannot tolerate cell therapy
- 2) Pregnant or lactating women;
- 3) Subjects with syphilis or any of human immunodeficiency virus (HIV), hepatitis B virus (HBV), hepatitis C virus (HCV) positive antibody; Of which stable HBV carriers after drug treatment (DNA titer ≤500 IU/mL or copy number <1000 copies/mL) and cured hepatitis C patients (HCV RNA is negative) can be enrolled;
- 4) Subjects with malignant tumors or a history of malignant tumors;
- 5) Subjects with taking drugs which caused lung fibroblast such as amiodarone in a long term before screening;
- 6) Subjects with infections in lung or other site, including bacterial and viral infections, requiring intravenous treatment before cell transplantation;
- 7) Subjects with a history of invasive or noninvasive mechanical ventilation within 4 weeks;
- 8) Subjects with any of the following lung diseases: asthma, active tuberculosis, pulmonary embolism, pneumothorax, pulmonary hypertension, pneumoconiosis, etc.; lung cancer, bronchiolitis obliterans or other active lung disease; Pneumonia currently or within the last 4 weeks; Pneumonectomy Previously;
- 9) Subjects needing oxygen therapy currently (oxygen therapy time> 15h/d);
- 10) Subjects suffering from serious other systemic diseases, such as myocardial infarction, unstable angina, liver cirrhosis, acute glomerulonephritis, connective tissue disease, etc.;
- 11) Subjects with following results: leukopenia (leukopenia < 4×10^9/L) or agranulocytosis (leukocyte < 1.5×10^9/L or neutrophils < 0.5×10^9/L) of any cause; Blood creatinine > 2.5 times the upper limit of normal; Alanine transaminase (ALT) and Aspartate transaminase (AST) > 2.5 times the upper limit of

- normal values in the laboratory tests.
- 12) Subjects with a history of mental illness or suicide risk, epilepsy or other central nervous system disorders
- 13) Subjects with severe arrhythmias (such as ventricular tachycardia, frequent supraventricular tachycardia, atrial fibrillation, atrial flutter, etc.) or atrioventricular block of degree II or above, shown by 12-lead Electrocardiogram (ECG);
- 14). Subjects with a history of abusing alcohol and illicit drug;
- 15). Subjects who are allergic to cattle products;
- 16). Subjects who participated in other clinical trials in the past 3 months;
- 17). Subjects with poor compliance and difficult to complete the investigation;
- 18). Investigators, employees of research centers or family members of them (none of whom are suitable to participate in the trial to ensure the objectivity of the research);
- 19). Subjects who had an acute exacerbation of IPF or hospitalized for other respiratory diseases 3 or more times in the past 1 year;
- 20). Subjects who take nintedanib for medication within 1 month, or plan to continue taking nintedanib for medication;
- 21). Subjects with other acquired or congenital immunodeficiency disorders, or with a history of organ transplantation or cell transplant therapy;
- 22). Subjects whose expected survival may be less than one year judged by the investigator;
- 23). Male participants of childbearing potential and female participants within childbearing age were reluctant to use effective contraception from the time of signing the informed consent to 6 months after cell therapy;
- 24). Subjects assessed as inappropriate to participate in this clinical trial by investigator.

(4). Interventions

Investigational	Serial	Name	Administration
Drug	Number		
	1).	English Generic	Dosage Form:
		Name: REGEND001	Intratracheal administration
		Autologous Therapy	preparation
		Product	Specifications: 14mL/bag
			Administration:
			Intratracheal administration
			through fiberoptic
			bronchoscopy

			Administration Single dose	Administration Frequency: Single dose	
Control Drug	Serial Number	Name	Administrat	Administration	
	- Trainiboi	NA	NA		
(5). Outcome M	easures	<u> </u>	I		
Primary	Serial	Indicators	Assessment	Type of	
Outcome and	Number		Time	indicators	
Assessment	1)	Incidence and	Within 24	Safety	
Time		severity of the cell	weeks after	Indicator	
		therapy-related	treatment		
		adverse events (AEs)			
Secondary	Serial	Indicators	Assessment	Type of	
Outcomes and	Number		Time	indicators	
Assessment	1)	Incidence of	Within 24	Safety	
Time		complication related	weeks after	Indicator	
		to bronchoscopy;	treatment		
	2)	Change of tumor	12 and 24	Safety	
		markers from	weeks after	Indicator	
		baseline	treatment		
	3)			Safety	
		safety assessments	weeks after	Indicator	
		(Blood routine, Urine	treatment		
		routine, Blood			
		biochemistry, 12-lead			
		Electrocardiogram			
	4)	(ECG))			
	4)	Change of the	4, 12 and 24	Efficacy	
		percentage of	weeks after	Indicator	
		predicted value for	treatment		
		single-breath diffusing capacity for			
		carbon monoxide			
		(DLCO-sb) from			
		baseline			
	5)	Change of forced vital	4, 12 and 24	Efficacy	
	0)	capacity (FVC) from	weeks after	Indicator	
		baseline	treatment		
	6)	Change of the ratio of	4, 12 and 24	Efficacy	
	,	diffusing capacity for	weeks after	Indicator	
		carbon monoxide/ the	treatment		
		alveolar volume			
		arvoolar volume		1	

		(DLCO/VA) from		
		baseline		
	7)	Change of 6-minute-	4, 12 and 24	Efficacy
		walk test (6MWT)	weeks after	Indicator
		from baseline	treatment	
	8)	Change of St.	4, 12 and 24	Efficacy
		George's respiratory	weeks after	Indicator
		questionnaire	treatment	
		(SGRQ) scale from		
		baseline		
	9)	Change of imaging of	24 weeks	Efficacy
		lung by high	after	Indicator
		resolution computed	treatment	
		tomography (HR-CT)		
	10)	Idiopathic pulmonary	Within 24	Efficacy
		fibrosis (IPF)	weeks after	Indicator
		exacerbation	treatment	
		events (Frequency		
		and severity)		
(6). Has Data	No			
Monitoring				
Committee				
(DMC)				
(7). Trial injury	Yes			
insurance for				
subjects				

4. Investigator Information

(1). Principal Investigator Information				
Name	Zuojun Xu		Degree	Medical Doctor (MD)
Professional	Senior		Phone	010-69156114
Title			Number	
Email	xuzj@hotmail	.com	Postal	No. 1, Shuaifu Garden,
			Address	Dongcheng District,
				Beijing, Beijing
				Municipality
Postal Code	100730		Institution	Peking Union Medical
			Name	College Hospital
(2). Institution	(2). Institution Information			
Serial	Institution	Principal	Country or	Province (State) - City
Number	Name	Investigator	Region	

1)	Peking Union Medical College Hospital	Zuojun Xu	China	Beijing Municipality - Beijing City
2)	Ruijin Hospital, Shanghai Jiao Tong University School of Medicine I	Jieming Qu	China	Shanghai Municipality - Shanghai City
3)	The First Affiliated Hospital of Guangzhou Medical University	Qun Luo	China	Guangdong Province - Guangzhou City

5. Ethics Committee Information

Serial Number	Name	Review Conclusion	Approval Date/Review Date
1)	Ethics Committee for Clinical Trials of Drugs at Peking Union Medical College Hospital Chinese Academy of Medical Sciences	Agreed after modification	2021-01-28
2)	Rapid review approval from the Ethics Committee for Clinical Trials of Drugs at Peking Union Medical College Hospital Chinese Academy of Medical Sciences	Agree	2021-06-07

6. Trial Status

(1). Trial Status				
Completed	Completed			
(2). Participant Enrollment				
Target Enrollment	Domestic: 24 participants;			
Enrolled Participants	Domestic: 12 participants;			
Actual Total Enrollment	Domestic: 12 participants;			
(3). Participant Enrollment and Study Completion Date				
Date of First Subject Signing	Domestic: 2021-05-14;			
Informed Consent				
Date of First Subject Enrollment	Domestic: 2021-07-19;			
Study Completion Date	Domestic: 2023-06-09;			