# **Clinical trial results:**

# A Randomised, Phase 2, Double-blind, Placebo-controlled Study to Assess the Safety and Efficacy of Filgotinib, GS-9876 and GS-4059 in Adult Subjects with Active Sjogren's Syndrome

### Summary

EudraCT number	2016-003558-34		
Trial protocol	GB ES PL		
Global end of trial date	02 October 2019		
Results information			
Result version number	v1		
This version publication date	04 January 2020		
First version publication date	04 January 2020		

### **Trial information**

Trial identification		
Sponsor protocol code	GS-US-445-4189	
Additional study identifiers		
ISRCTN number	-	
ClinicalTrials.gov id (NCT number)	NCT03100942	
WHO universal trial number (UTN)	-	
Notes:		

#### Sponsors

Sponsor organisation name	Gilead Sciences		
Sponsor organisation address	333 Lakeside Drive, Foster City, CA, United States, 9440		
Public contact	Gilead Clinical Study Information Center, Gilead Science GileadClinicalTrials@gilead.com		
Scientific contact	Gilead Clinical Study Information Center, Gilead Sciences, GileadClinicalTrials@gilead.com		

Notes:

# Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No

Notes:

Results analysis stage		
Analysis stage	Interim	
Date of interim/final analysis	10 January 2019	
Is this the analysis of the primary completion data?	Yes	
Primary completion date	10 January 2019	
Global end of trial reached?	Yes	
Global end of trial date	02 October 2019	
Was the trial ended prematurely?	No	
NL L	•	

Notes:

### General information about the trial

Main objective of the trial:

The primary objective of this study was to assess the efficacy of filgotinib, lanraplenib, and tirabrutinib in adults with active Sjogren's Syndrome (SjS).

Protection of trial subjects:

The protocol and consent forms were submitted for each investigator to a duly constituted Independent Ethics Committee (IEC) or Institutional Review Board (IRB) for review and approval before study initiation. All revisions to the consent forms (if applicable) after initial IEC/IRB approval were submitted on behalf of the investigator to the IEC/IRB for review and approval before implementation in accordance with regulatory requirements.

This study was conducted in accordance with recognized international scientific and ethical standards, including but not limited to the International Conference on Harmonization guideline for Good Clinical Practice (ICH GCP) and the original principles embodied in the Declaration of Helsinki.

Background therapy: -	
Evidence for comparator: -	
Actual start date of recruitment	01 May 2017
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No
Netec	

Notes:

#### **Population of trial subjects**

Subjects enrolled per country		
Country: Number of subjects enrolled	United States: 106	
Country: Number of subjects enrolled	Poland: 22	
Country: Number of subjects enrolled	Spain: 15	
Country: Number of subjects enrolled	United Kingdom: 9	
Worldwide total number of subjects	152	
EEA total number of subjects	46	

Notes:

# Subjects enrolled per age group In utero 0 Preterm newborn - gestational age < 37 wk</td> 0 Newborns (0-27 days) 0 Infants and toddlers (28 days-23 0

months)		
Children (2-11 years)	0	
Adolescents (12-17 years)	0	
Adults (18-64 years)	130	
From 65 to 84 years	22	
85 years and over	0	

### Recruitment

Recruitment details:

Participants were enrolled at study sites in the United States and Europe. The first participant was screened on 01 May 2017. The last study visit occurred on 02 Oct 2019.

#### **Pre-assignment**

Screening details:

347 participants were screened. Data submitted represent interim analysis performed on data collected by the participants through Week 24. Complete data will be submitted in October 2020.

Period 1 title       Overall Study (overall period)         Is this the baseline period?       Yes         Allocation method       Randomised - controlled         Binding used       Double blind         Roles blinded       Subject, Investigator         Arm s       Yes         Arm still       Filgotinib         Are arms mutually exclusive?       Yes         Arm title       Filgotinib         Are arms mutually exclusive?       Yes         Arm title       Filgotinib         Are avers mutually exclusive?       Yes         Arm title       Filgotinib         Are avers mutually exclusive?       Yes         Arm type       Experimental         Investigational medicinal product name       Filgotinib         Investigational medicinal product code       Other name         Other name       GS-6034         Pharmaceutical forms       Tablet         Routes of administration details:       1 x 200 mg tablet administred orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product name       Investigational medicinal product code         Other name       Oral use         Dosage and administration details:       1 x ta				
Is this the baseline period? Yes Allocation method Randomised - controlled Allocation method Randomised - controlled Binding used Double blind Roles blinded Subject, Investigator Arms Are arms mutually exclusive? Yes Arm title Filgotinib Arm description: Filgotinib (1 x 200 mg) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks Arm type Experimental Investigational medicinal product name Filgotinib Investigational medicinal product code Other name GS-6034 Pharmaceutical forms Tablet Routes of administration details: 1 x 200 mg tablet administration and code Other name Other use Investigational medicinal product code Other name Other use Investigational medicinal product code Other name Desage and administration details: 1 x tablet administration details: 1 x tablet administration details: 1 x tablet administration Oral use Dosage and administration details: 1 x tablet administration details: 1 x tablet administration Oral use Dosage and administration details: 1 x tablet administration Oral use Dosage and administration details: 1 x tablet administration Oral use Dosage and administration details: 1 x tablet administered orally once daily for 48 weeks Arm title Lanrapleni	Period 1			
Allocation method       Randomised - controlled         Blinding used       Double blind         Roles blinded       Subject, Investigator         Arms       Arms         Are arms mutually exclusive?       Yes         Arm title       Filgotinib         Arm description:       Filgotinib         Filgotinib (1 × 200 mg) + lanraplenib placebo (1 × tablet) + tirabrutinib placebo (1 × tablet) orally once daily for 48 weeks         Arm type       Experimental         Investigational medicinal product name       Filgotinib         Investigational medicinal product code       Oral use         Dosage and administration       Oral use         Dosage and administration <td< td=""><td>Period 1 title</td><td colspan="3">Overall Study (overall period)</td></td<>	Period 1 title	Overall Study (overall period)		
Bilnding used     Double blind       Roles blinded     Subject, Investigator       Arms     Are arms mutually exclusive?     Yes       Arm title     Filgotinib       Arm description:     Filgotinib       Filgotinib (1 x 200 mg) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks       Arm type     Experimental       Investigational medicinal product name     Filgotinib       Investigational medicinal product code     Other name       Other name     GS-6034       Pharmaceutical forms     Tablet       Routes of administration     Oral use       Dosage and administration details:     1 x 200 mg tablet administered orally once daily for 48 weeks       Investigational medicinal product name     Lanraplenib placebo       Investigational medicinal product name     Lanraplenib placebo       Investigational medicinal product name     Lanraplenib placebo       Investigational medicinal product name     Coral use       Dosage and administration     Oral use       Dosage and administration details:     1 x tablet administered orally once daily for 48 weeks       Investigational medicinal product name     Tirabrutinib placebo       Investigational medicinal product name     Tirabrutinib placebo       Investigational medicinal product name     Filablet       Routes of administration	Is this the baseline period?	Yes		
Roles blinded       Subject, Investigator         Arms       Are arms mutually exclusive?       Yes         Arm title       Filgotinib         Arm description:       Filgotinib         Filgotinib (1 x 200 mg) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks         Arm type       Experimental         Investigational medicinal product name       Filgotinib         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product code       Oral use         Dosage and administration       Oral use         Dosage and administratio	Allocation method			
Arms         Are arms mutually exclusive?       Yes         Arm title       Filgotinib         Arm description:       Filgotinib         Filgotinib (1 × 200 mg) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks         Arm type       Experimental         Investigational medicinal product name       Filgotinib         Investigational medicinal product code       Orla use         Other name       GS-6034         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration       Oral use         Dosage and administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code <td< td=""><td>Blinding used</td><td>Double blind</td></td<>	Blinding used	Double blind		
Are arms mutually exclusive?       Yes         Arm title       Filgotinib         Arm description:       Filgotinib (1 x 200 mg) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks         Arm type       Experimental         Investigational medicinal product name       Filgotinib         Investigational medicinal product code       Oral use         Other name       GS-6034         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product code       Investigational medicinal product code         Other name       Lanraplenib placebo         Investigational medicinal product code       Oral use         Obsage and administration       Oral use         Dosage and administration       Oral use         Dosage and administration details:       1 x tablet administred orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product name       Tablet         Routes of administration       Oral use         Dosage and administration       Oral use         Dosage and administration       Oral use	Roles blinded	Subject, Investigator		
Arm title       Filgotinib         Arm description:       Filgotinib         Filgotinib (1 x 200 mg) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks         Arm type       Experimental         Investigational medicinal product name       Filgotinib         Investigational medicinal product name       Filgotinib         Investigational medicinal product name       Filgotinib         Other name       GS-6034         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product code       Other name         Other name       Lanraplenib placebo         Investigational medicinal product code       Other name         Other name       Pharmaceutical forms         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration details:       1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product code       Other name	Arms			
Arm description: Filgotinib (1 × 200 mg) + lanraplenib placebo (1 × tablet) + tirabrutinib placebo (1 × tablet) orally once daily for 48 weeks Arm type Experimental Investigational medicinal product name Filgotinib Investigational medicinal product name GS-6034 Pharmaceutical forms Tablet Routes of administration Oral use Dosage and administration details: 1 × 200 mg tablet administered orally once daily for 48 weeks Investigational medicinal product name Lanraplenib placebo Investigational medicinal product code Other name Pharmaceutical forms Tablet Routes of administration Oral use Dosage and administration Oral use Dosage and administration details: 1 × tablet administration Oral use Dosage and administration details: 1 × tablet administered orally once daily for 48 weeks Arm title Lanraplenib Arm description: Lanraplenib (1 × 30 mg) + filgotinib placebo (1 × tablet) + tirabrutinib placebo (1 × tablet) orally once daily for 48 weeks	Are arms mutually exclusive?	Yes		
Filgotinib (1 x 200 mg) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once         daily for 48 weeks         Arm type       Experimental         Investigational medicinal product name       Filgotinib         Investigational medicinal product name       Filgotinib         Other name       GS-6034         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Other name         Other name       Coral use         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration details:       1 x tablet admin	Arm title	Filgotinib		
daily for 48 weeks       Experimental         Arm type       Experimental         Investigational medicinal product name       Filgotinib         Investigational medicinal product code       Other name         Other name       GS-6034         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administration details:       1 x tablet administration details:         1 x tablet administration details:       1 rirabrutinib placebo         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration details:       1 x tablet administration details:         1 x tablet administration       Oral use         Dosage and administration       Oral use         Dosage and administration details	Arm description:			
Investigational medicinal product name       Filgotinib         Investigational medicinal product code       GS-6034         Other name       GS-6034         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Other name         Other name       Pharmaceutical forms         Routes of administration       Oral use         Dosage and administration       Oral use         Other name       Pharmaceutical forms         Tablet       Routes of administration details:         1 x tablet administration details:       1 x tablet administration details:         1 x tablet administration details:       1 x tablet administration details:         1 x tablet administration details:       1 x tablet administration or daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration detail	Filgotinib (1 x 200 mg) + lanraplenib pla daily for 48 weeks	acebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once		
Investigational medicinal product code         Other name       GS-6034         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Oral use         Other name       Pharmaceutical forms         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration       Oral use         Dosage and administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administration ally once daily for 48 weeks       Investigational medicinal product name         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Dother name         Other name       Pharmaceutical forms         Tablet       Consequent administration         Oral use       Dosage and administration         Oral use       Dosage and administration details:         1 x tablet administered orally onc	Arm type	Experimental		
Other name       GS-6034         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Oral use         Other name       Lanraplenib placebo         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administration details:       1 x tablet administration details:         1 x tablet administreed orally once daily for 48 weeks       Investigational medicinal product name         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Other name       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Arm title       Lanraplenib	Investigational medicinal product name	Filgotinib		
Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Oral use         Other name       Pharmaceutical forms         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Other name       Oral use         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks       Arm title         Arm title       Lanraplenib         Arm d	Investigational medicinal product code			
Routes of administration       Oral use         Dosage and administration details:       1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Other name         Ohard use       Tablet         Routes of administration       Oral use         Dosage and administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks       Investigational medicinal product name         Investigational medicinal product code       Trabrutinib placebo         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Trabrutinib placebo         Other name       Tablet         Routes of administration       Oral use         Obter name       Oral use         Pharmaceutical forms       Tablet         Routes of administration details:       1 x tablet administration details:         1 x tablet administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks       Investigational medicinal product code         Arm title       Lanraplenib         Arm descript	Other name	GS-6034		
Dosage and administration details:         1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administred orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Other name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Other name       Tablet         Routes of administration       Oral use         Dosage and administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administration details:       1 x tablet administration details:         1 x tablet administration details:       1 x tablet administration details:         1 x tablet administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks       Arm title         Arm title <td< td=""><td>Pharmaceutical forms</td><td>Tablet</td></td<>	Pharmaceutical forms	Tablet		
1 x 200 mg tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Other name       Tablet         Routes of administration       Oral use         Other name       Oral use         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administration details:       1 x tablet administration details:         1 x tablet administration details:       Lanraplenib         Arm title       Lanraplenib         Arm title       Lanraplenib         Arm description:       Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Routes of administration	Oral use		
Investigational medicinal product name       Lanraplenib placebo         Investigational medicinal product code       Other name         Other name       Pharmaceutical forms         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administred orally once daily for 48 weeks       Investigational medicinal product name         Investigational medicinal product code       Triabrutinib placebo         Other name       Pharmaceutical forms         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Other name       Oral use         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Arm title       Lanraplenib         Arm title       Lanraplenib         Arm description:       Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Dosage and administration details:			
Investigational medicinal product code         Other name         Pharmaceutical forms         Routes of administration         Dosage and administration details:         1 x tablet administration details:         1 x tablet administred orally once daily for 48 weeks         Investigational medicinal product name         Tirabrutinib placebo         Investigational medicinal product code         Other name         Pharmaceutical forms         Routes of administration         Oral use         Other name         Pharmaceutical forms         Routes of administration         Oral use         Dosage and administration details:         1 x tablet administration         Oral use         Dosage and administration details:         1 x tablet administered orally once daily for 48 weeks         Arm title         Lanraplenib         Arm description:         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	1 x 200 mg tablet administered orally or	nce daily for 48 weeks		
Other name       Tablet         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Other name       Tablet         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks       Arm title         Arm title       Lanraplenib         Arm description:       Lanraplenib         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Investigational medicinal product name	Lanraplenib placebo		
Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Investigational medicinal product code         Other name       Investigational forms         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks       Arm title         Lanraplenib       Lanraplenib         Arm description:       Lanraplenib         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Investigational medicinal product code			
Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Oral use         Other name       Pharmaceutical forms         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Arm title       Lanraplenib         Arm description:       Lanraplenib         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Other name			
Dosage and administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks       Arm title         Arm description:       Lanraplenib         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Pharmaceutical forms	Tablet		
1 x tablet administered orally once daily for 48 weeks         Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Other name         Other name       Tablet         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Arm title       Lanraplenib         Arm description:       Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Routes of administration	Oral use		
Investigational medicinal product name       Tirabrutinib placebo         Investigational medicinal product code       Investigational medicinal product code         Other name       Investigational medicinal product code         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks       Arm title         Arm description:       Lanraplenib         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Dosage and administration details:	•		
Investigational medicinal product code         Other name         Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Arm title       Lanraplenib         Arm description:       Lanraplenib         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	1 x tablet administered orally once daily	/ for 48 weeks		
Other name       Image: Constraint of the second seco	Investigational medicinal product name	Tirabrutinib placebo		
Pharmaceutical forms       Tablet         Routes of administration       Oral use         Dosage and administration details:       1 x tablet administered orally once daily for 48 weeks         Arm title       Lanraplenib         Arm description:       Lanraplenib         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Investigational medicinal product code			
Routes of administration       Oral use         Dosage and administration details:       1 x tablet administration details:         1 x tablet administered orally once daily for 48 weeks         Arm title       Lanraplenib         Arm description:         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Other name			
Dosage and administration details:         1 x tablet administered orally once daily for 48 weeks         Arm title       Lanraplenib         Arm description:         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Pharmaceutical forms	Tablet		
1 x tablet administered orally once daily for 48 weeks         Arm title       Lanraplenib         Arm description:         Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Routes of administration	Oral use		
Arm title       Lanraplenib         Arm description:       Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Dosage and administration details:			
Arm description: Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	1 x tablet administered orally once daily	for 48 weeks		
Lanraplenib (1 x 30 mg) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once daily for 48 weeks	Arm title Lanraplenib			
daily for 48 weeks	Arm description:			
	Lanraplenib (1 x 30 mg) + filgotinib plac daily for 48 weeks	$(1 \times tablet) + tirabrutinib placebo (1 \times tablet) orally once$		
	Arm type	Experimental		

	I
Investigational medicinal product name	Lanraplenib
Investigational medicinal product code	
Other name	GS-9876
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
1 x 30 mg tablet administered orally on	ce daily for 48 weeks
Investigational medicinal product name	Filgotinib placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
1 x tablet administered orally once daily	y for 48 weeks
Investigational medicinal product name	Tirabrutinib placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
1 x tablet administered orally once daily	y for 48 weeks
Arm title	Tirabrutinib
Arm description :	
Arm description:	ih placeba (1 v tablet) i janzanlanih placeba (1 v tablet) erallu
once daily for 48 weeks	ib placebo (1 x tablet) + lanraplenib placebo (1 x tablet) orally
Arm type	Experimental
Investigational medicinal product name	Tirabrutinib
Investigational medicinal product code	
Other name	GS-4059
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
1 x 40 mg tablet administered orally on	ce daily for 48 weeks
Investigational medicinal product name	Filgotinib placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
-	for 18 weeks
1x tablet administered orally once daily	
Investigational medicinal product name	Lanraplenib placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
1 x tablet administered orally once daily	y for 48 weeks
Arm title	Placebo

Arm description:

Participants received filgotinib placebo + lanraplenib placebo + tirabrutinib placebo tablets orally once daily for 24 weeks. At Week 24 Visit, participants were rerandomised 1:1:1, in a blinded fashion and received either of the three experimental study drugs orally once daily through Week 48:

• filgotinib (1 x 200 mg tablet) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)

• lanraplenib (1 x 30 mg tablet) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)

• tirabrutinib (1 x 40 mg tablet) + filgotinib placebo (1 x tablet) + lanraplenib placebo (1 x tablet)				
Arm type	Placebo			
Investigational medicinal product name	Filgotinib placebo			
Investigational medicinal product code				
Other name				
Pharmaceutical forms	Tablet			
Routes of administration	Oral use			

Dosage and administration details:

1 x tablet administered orally once daily for 24 weeks. At Week 24 visit, 1 x tablet administered orally once daily through Week 48 in either of the following experimental arms:

<ul> <li>lanranlenih (1 x 30 mg</li> </ul>	tablet) + filgotinib placebo	o (1 x tablet) + tirabrutinib place	ho (1 x tablet)
	tablet) + nigotinib placebo	$(1 \times tablet) + tillabiutillib place$	

• tirabrutinib (1 x 40 mg tablet) + filgotinib placebo (1 x tablet) + lanraplenib placebo (1 x tablet)

Investigational medicinal product name	Lanraplenib placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

1 x tablet administered orally once daily for 24 weeks. At Week 24 visit, 1 x tablet administered orally once daily through Week 48 in either of the following experimental arms:

filgotinib (1 x 200 mg tablet) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)
tirabrutinib (1 x 40 mg tablet) + filgotinib placebo (1 x tablet) + lanraplenib placebo (1 x tablet)

Investigational medicinal product name	Tirabrutinib placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

1 x tablet administered orally once daily for 24 weeks. At Week 24 visit, 1 x tablet administered orally once daily through Week 48 in either of the following experimental arms:

filgotinib (1 x 200 mg tablet) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)
lanraplenib (1 x 30 mg tablet) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)

Investigational medicinal product name	Filgotinib
Investigational medicinal product code	
Other name	GS-6034
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

1 x 200 mg tablet administered once daily from Week 24 through Week 48

Investigational medicinal product name	Lanraplenib
Investigational medicinal product code	
Other name	GS-9876
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

1x 30 mg tablet administered orally once daily from Week 24 through Week 48

Investigational medicinal product name	Tirabrutinib
Investigational medicinal product code	
Other name	GS-4059
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

1 x 40 mg tablet administered orally once daily from Week 24 through Week 48

# Number of subjects in period 1<sup>[1]</sup>

## **Baseline characteristics**

Reporting groups		
Reporting group title	Filgotinib	
Reporting group description:		
Filgotinib (1 x 200 mg) + lanraplenib pla daily for 48 weeks	cebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once	
Reporting group title Lanraplenib		
Reporting group description:		
Lanraplenib $(1 \times 30 \text{ mg}) + \text{filgotinib place}$ daily for 48 weeks	ebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once	
Reporting group title	Tirabrutinib	
Reporting group description:		
Tirabrutinib $(1 \times 40 \text{ mg tablet}) + \text{filgotini}$ once daily for 48 weeks	b placebo (1 x tablet) + lanraplenib placebo (1 x tablet) orally	
Reporting group title	Placebo	
Reporting group description:		
	lanraplenib placebo + tirabrutinib placebo tablets orally once ticipants were rerandomised 1:1:1, in a blinded fashion and	

received either of the three experimental study drugs orally once daily through Week 48:

filgotinib (1 x 200 mg tablet) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)
lanraplenib (1 x 30 mg tablet) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)
tirabrutinib (1 x 40 mg tablet) + filgotinib placebo (1 x tablet) + lanraplenib placebo (1 x tablet)

Reporting group values	Filgotinib	Lanraplenib	Tirabrutinib
Number of subjects	38	37	39
Age categorical			
Units: Subjects			

Age continuous			
Units: years			
	F2 2	EC D	FF 0
arithmetic mean	52.2	56.2	55.8
standard deviation	± 10.54	± 9.72	± 10.06
Gender categorical			
Units: Subjects			
Female	38	36	37
Male	0	1	2
Race			
Units: Subjects			
American Indian or Alaska Native	0	0	0
Asian	1	0	1
Black	5	5	4
White	32	31	34
Other	0	1	0
Ethnicity			
Units: Subjects			
Hispanic or Latino	4	6	1
Not Hispanic or Latino	34	31	38
Not Permitted	0	0	0

Γ	I		
European League Against Rheumatism			
(EULAR) Sjogren's Syndrome Disease			
Activity Index (ESSDAI)			م النومانية ماريما
Overall score (ranged from 0 (best) to 1 weighted domain scores . For additional			
Units: Score on a scale			Section.
	10.2	10 5	10.4
arithmetic mean	10.2	10.5	10.4
standard deviation	± 6.23	± 4.89	± 5.36
EULAR Sjogren's syndrome patient			
reported index (ESSPRI)			
The ESSPRI is a patient-reported question			
domains (dryness, pain, and fatigue). Ea 10 = worst symptom imaginable), and a			
domains where all domains carry the sa			
10.	5		
Units: Score on a scale			
arithmetic mean	6.3	6.6	5.9
standard deviation	± 2.31	± 1.90	± 2.39
	- 2101	- 1150	- 2109
Reporting group values	Placebo	Total	
Number of subjects	36	150	
Age categorical			
Units: Subjects			
Age continuous			
-			
Units: years			
arithmetic mean	53.2		
standard deviation	± 10.28	-	
Gender categorical			
Units: Subjects			
Female	35	146	
Male	1	4	
Race			
Units: Subjects			
American Indian or Alaska Native	1	1	
Asian	0	2	
Black	5	19	
White	30	127	
Other	0	1	
Ethnicity			
Units: Subjects		4 7	
Hispanic or Latino	6	17	
Not Hispanic or Latino	29	132	
Not Permitted	1	1	
European League Against Rheumatism			
(EULAR) Sjogren's Syndrome Disease Activity Index (ESSDAI)			
Overall score (ranged from 0 (best) to 1 weighted domain scores . For additional			
Units: Score on a scale			
arithmetic mean	9.3		
standard deviation	± 3.96	_	
	± 2.90	-	
EULAR Sjogren's syndrome patient reported index (ESSPRI)			
The ESSPRI is a patient-reported question	onnaire to assess subj	ective patient sympto	ms and includes 3

domains (dryness, pain, and fatigue). Each domain scored on scale of $0-10$ ( $0 =$ no symptom at all and $10 =$ worst symptom imaginable), and an overall score is calculated as the mean of the three individual domains where all domains carry the same weight. Minimum score can be 0 and maximum score can be 10.			
Units: Score on a scale			
arithmetic mean	5.9		
standard deviation	± 2.24	-	

End points reporting groups		
Reporting group title	Filgotinib	
Reporting group description:		
Filgotinib (1 x 200 mg) + lanraplenib pla daily for 48 weeks	cebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once	
Reporting group title	Lanraplenib	
Reporting group description:		
Lanraplenib (1 x 30 mg) + filgotinib plac daily for 48 weeks	ebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally once	
Reporting group title	Tirabrutinib	
Reporting group description:		
Tirabrutinib (1 x 40 mg tablet) + filgotin once daily for 48 weeks	ib placebo (1 x tablet) + lanraplenib placebo (1 x tablet) orally	
Reporting group title Placebo		
Reporting group description:		
Participants received filgotinib placebo + lanraplenib placebo + tirabrutinib placebo tablets orally once daily for 24 weeks. At Week 24 Visit, participants were rerandomised 1:1:1, in a blinded fashion and received either of the three experimental study drugs orally once daily through Week 48:		

• filgotinib (1 x 200 mg tablet) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)

• lanraplenib (1 x 30 mg tablet) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)

• tirabrutinib (1 x 40 mg tablet) + filgotinib placebo (1 x tablet) + lanraplenib placebo (1 x tablet)

# Primary: Percentage of Participants Fulfilling Protocol-Specified Response Criteria at Week 12, as Compared to Baseline

Percentage of Participants Fulfilling Protocol-Specified Response
 Criteria at Week 12, as Compared to Baseline

End point description:

Response was defined as:

Improvement  $\geq 20\%$  in  $\geq 3$  of 5 participant-reported Sjogren's syndrome (SjS) related visual analogue score (VAS) measures (participant's assessment of global disease, pain, oral dryness, ocular dryness and fatigue), with no increase defined as > 30 mm from baseline (Day 1) in any of the above 5 VAS measures, AND either  $\geq 20\%$  improvement in high sensitivity C-reactive protein (hsCRP) (if hsCRP  $\geq 1.5 \times ULN$  on Day 1) or no increase in hsCRP to  $\geq 1.5 \times ULN$  (if hsCRP  $< 1.5 \times ULN$  on Day 1). Missing data were imputed using multiple imputations with logistic regression. The Full Analysis Set included all randomised participants who received at least one dose of study drug.

End point type	Primary
End point timeframe:	
Week 12	

End point values	Filgotinib	Lanraplenib	Tirabrutinib	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	38	37	39	36
Units: Percentage of participants				
number (confidence interval 95%)	43.0 (27.1 to 59.0)	42.3 (25.9 to 58.7)	34.7 (19.6 to 49.9)	26.4 (11.5 to 41.3)

#### Statistical analyses

Statistical analysis title	Statistical Analysis 1
Comparison groups	Filgotinib v Placebo
Number of subjects included in analysis	74
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.2082
Method	Cochran-Mantel-Haenszel

Statistical analysis title	Statistical Analysis 2
Comparison groups	Lanraplenib v Placebo
Number of subjects included in analysis	73
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.1373
Method	Cochran-Mantel-Haenszel

Statistical analysis title	Statistical Analysis 3
Comparison groups	Tirabrutinib v Placebo
Number of subjects included in analysis	75
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.3732
Method	Cochran-Mantel-Haenszel

#### Secondary: Change From Baseline in European League Against Rheumatism (EULAR) Sjogren's Syndrome Disease Activity Index (ESSDAI) at Week 12

End point title	Change From Baseline in European League Against Rheumatism (EULAR) Sjogren's Syndrome Disease Activity Index (ESSDAI) at Week 12
-----------------	--

End point description:

The ESSDAI is a physician-administered tool designed to measure disease activity. It consists of 12 organ-specific 'domains' contributing to disease activity associated with the patient's Sjogren's Syndrome only (constitutional, lymphadenopathy, articular, muscular, cutaneous, glandular, pulmonary, renal, peripheral nervous system, central nervous system, hematological, biological). Each domain is assessed for activity level (i.e., no, low, moderate, high) and assigned a numerical score based on pre-determined weighting of each individual domain. Overall score (ranges from 0 (best) to 123 (worst activity)) is calculated as sum of all individual weighted domain scores. Participants in the Full Analysis Set were analyzed.

End point type	Secondary
End point timeframe:	
Baseline; Week 12	

End point values	Filgotinib	Lanraplenib	Tirabrutinib	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	38	37	39	36
Units: Score on a scale				
least squares mean (standard error)	-4.7 (± 0.73)	-2.6 (± 0.76)	-3.2 (± 0.73)	-3.8 (± 0.76)

#### **Statistical analyses**

No statistical analyses for this end point

#### Secondary: Change From Baseline in EULAR Sjogren's Syndrome Patient Reported Index (ESSPRI) at Week 12

End point title	Change From Baseline in EULAR Sjogren's Syndrome Patient
	Reported Index (ESSPRI) at Week 12

End point description:

The ESSPRI is a patient-reported questionnaire to assess subjective patient symptoms and includes 3 domains (dryness, pain, and fatigue). Each domain scored on scale of 0-10 (0 = no symptom at all and 10 = worst symptom imaginable), and an overall score is calculated as the mean of the three individual domains where all domains carry the same weight. Minimum score can be 0 and maximum score can be 10. Participants in the Full Analysis Set were analyzed.

End point type	Secondary
End point timeframe:	
Baseline; Week 12	

End point values	Filgotinib	Lanraplenib	Tirabrutinib	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	38	37	39	36
Units: Score on a scale				
least squares mean (standard error)	-1.4 (± 0.33)	-1.0 (± 0.34)	-1.3 (± 0.33)	-1.0 (± 0.35)

#### **Statistical analyses**

No statistical analyses for this end point

#### Secondary: Change From Baseline in ESSDAI at Week 24

End point title	Change From Baseline in ESSDAI at Week 24

End point description:

The ESSDAI is a physician-administered tool designed to measure disease activity. It consists of 12 organ-specific 'domains' contributing to disease activity associated with the patient's Sjogren's Syndrome only (constitutional, lymphadenopathy, articular, muscular, cutaneous, glandular, pulmonary, renal, peripheral nervous system, central nervous system, hematological, biological). Each domain is assessed for activity level (i.e., no, low, moderate, high) and assigned a numerical score based on pre-determined weighting of each individual domain. An overall score is then calculated as the sum of all individual weighted domain scores. Overall score (ranges from 0 (best) to 123 (worst activity)) is calculated as sum of all individual weighted domain scores. Participants in the Full Analysis Set were analyzed.

End point type	Secondary
End point timeframe:	

Baseline; Week 24

End point values	Filgotinib	Lanraplenib	Tirabrutinib	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	38	37	39	36
Units: Score on a scale				
least squares mean (standard error)	-5.4 (± 0.75)	-4.3 (± 0.81)	-4.0 (± 0.75)	-4.2 (± 0.79)

#### **Statistical analyses**

No statistical analyses for this end point

#### Secondary: Change From Baseline in ESSPRI at Week 24

	End point title	Change From Baseline in ESSPRI at Week 24
--	-----------------	---

End point description:

The ESSPRI is a patient-reported questionnaire to assess subjective patient symptoms and includes 3 domains (dryness, pain, and fatigue). Each domain scored on scale of 0-10 (0 = no symptom at all and 10 = worst symptom imaginable), and an overall score is calculated as the mean of the three individual domains where all domains carry the same weight. Minimum score can be 0 and maximum score can be 10. Participants in the Full Analysis Set were analyzed.

End point type	Secondary
End point timeframe:	
Baseline; Week 24	

End point values	Filgotinib	Lanraplenib	Tirabrutinib	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	38	37	39	36
Units: Score on a scale				
least squares mean (standard error)	-0.8 (± 0.31)	-1.1 (± 0.35)	-1.2 (± 0.31)	-0.8 (± 0.33)

#### Statistical analyses

No statistical analyses for this end point

Adverse events information	
Timeframe for reporting adverse events	:
First dose date up to Week 24	
Adverse event reporting additional desc	ription:
The Safety Analysis Set included particip	pants who received at least one dose of study drug.
Assessment type	Systematic
Dictionary used	
Dictionary name	MedDRA
Dictionary version	21.1
Reporting groups	
Reporting group title	Filgotinib
Reporting group description:	
Filgotinib (1 x 200 mg tablet) + lanraple once daily for 48 weeks	enib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally
Reporting group title	Lanraplenib
Reporting group description:	·
Lanraplenib (1 x 30 mg tablet) + filgotir once daily for 48 weeks	nib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet) orally
Reporting group title	Tirabrutinib
Reporting group description:	
Tirabrutinib (1 x 40 mg tablet) + filgotir once daily for 48 weeks	nib placebo (1 x tablet) + lanraplenib placebo (1 x tablet) orally
Reporting group title	Placebo
Reporting group description:	
Participants received filgotinib placebo -	Ianraplenib placebo + tirabrutinib placebo tablets orally once

daily for 24 weeks. At Week 24 Visit, participants were rerandomised 1:1:1, in a blinded fashion and received either of the three experimental study drugs orally once daily through Week 48:
filgotinib (1 x 200 mg tablet) + lanraplenib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)
lanraplenib (1 x 30 mg tablet) + filgotinib placebo (1 x tablet) + tirabrutinib placebo (1 x tablet)

<ul> <li>tirabrutinib (1 x 40 mg tablet) + filgotinib placebo (1 x tablet) + lanraplenib placebo (1 x table</li> </ul>	blet)
--	-------

Serious adverse events	Filgotinib	Lanraplenib	Tirabrutinib
Total subjects affected by serious adverse events			
subjects affected / exposed	3 / 38 (7.89%)	3 / 37 (8.11%)	1 / 39 (2.56%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Cardiac disorders			
Acute coronary syndrome			
subjects affected / exposed	0 / 38 (0.00%)	1 / 37 (2.70%)	0 / 39 (0.00%)
occurrences causally related to treatment / all	0 / 0	0/1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			

Clinical trial results 2016-003558-34 version 1

Gastrooesophageal reflux disease	I	l	
subjects affected / exposed	0 / 38 (0.00%)	0 / 37 (0.00%)	0 / 39 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pancreatitis acute			
subjects affected / exposed	0 / 38 (0.00%)	1 / 37 (2.70%)	0 / 39 (0.00%)
occurrences causally related to treatment / all	0 / 0	0/1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory, thoracic and mediastinal disorders			
Interstitial lung disease			
subjects affected / exposed	1 / 38 (2.63%)	0 / 37 (0.00%)	0 / 39 (0.00%)
occurrences causally related to treatment / all	0/1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Psychiatric disorders			
Suicidal ideation			
subjects affected / exposed	0 / 38 (0.00%)	1 / 37 (2.70%)	0 / 39 (0.00%)
occurrences causally related to treatment / all	0 / 0	0/1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Renal and urinary disorders			
Renal failure			
subjects affected / exposed	1 / 38 (2.63%)	0 / 37 (0.00%)	0 / 39 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	0 / 38 (0.00%)	0 / 37 (0.00%)	1 / 39 (2.56%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Rheumatoid arthritis			
subjects affected / exposed	0 / 38 (0.00%)	0 / 37 (0.00%)	0 / 39 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Infections and infestations Diverticulitis			
	•	•	

subjects affected / exposed	1 / 38 (2.63%)	0 / 37 (0.00%)	0 / 39 (0.00%)
occurrences causally related to treatment / all	0/1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Serious adverse events	Placebo		
Total subjects affected by serious adverse events			
subjects affected / exposed	2 / 36 (5.56%)		
number of deaths (all causes)	0		
number of deaths resulting from adverse events	0		
Cardiac disorders			
Acute coronary syndrome			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Gastrointestinal disorders			
Gastrooesophageal reflux disease			
subjects affected / exposed	1 / 36 (2.78%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Pancreatitis acute			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Respiratory, thoracic and mediastinal disorders			
Interstitial lung disease			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Psychiatric disorders			
Suicidal ideation			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Renal and urinary disorders			
Renal failure			

subjects affected / exposed	0 / 36 (0.00%)	
occurrences causally related to treatment / all	0 / 0	
deaths causally related to treatment / all	0 / 0	
Musculoskeletal and connective tissue disorders		
Arthralgia		
subjects affected / exposed	0 / 36 (0.00%)	
occurrences causally related to treatment / all	0 / 0	
deaths causally related to treatment / all	0 / 0	
Rheumatoid arthritis		
subjects affected / exposed	1 / 36 (2.78%)	
occurrences causally related to treatment / all	0/1	
deaths causally related to treatment / all	0 / 0	
Infections and infestations		
Diverticulitis		
subjects affected / exposed	0 / 36 (0.00%)	
occurrences causally related to treatment / all	0 / 0	
deaths causally related to treatment / all	0 / 0	

Frequency threshold for reporting non-serious adverse events: 5 %

Filgotinib	Lanraplenib	Tirabrutinib
23 / 38 (60.53%)	16 / 37 (43.24%)	22 / 39 (56.41%)
1 / 38 (2.63%)	4 / 37 (10.81%)	1 / 39 (2.56%)
1	5	1
	23 / 38 (60.53%)	23 / 38 (60.53%) 16 / 37 (43.24%) 1 / 38 (2.63%) 4 / 37 (10.81%)

Vascular disorders			
Hypertension			
subjects affected / exposed	2 / 38 (5.26%)	0 / 37 (0.00%)	1 / 39 (2.56%)
occurrences (all)	2	0	
	2	0	1
Nervous system disorders			
Dizziness			
subjects affected / exposed	0 / 38 (0.00%)	2 / 37 (5.41%)	1 / 39 (2.56%)
occurrences (all)	0	2	1
Headache			
subjects affected / exposed	2 / 38 (5.26%)	0 / 37 (0.00%)	2 / 39 (5.13%)
occurrences (all)	2	0	3
Sciatica			
subjects affected / exposed	3 / 38 (7.89%)	0 / 37 (0.00%)	0 / 39 (0.00%)
occurrences (all)			
	3	0	0
Blood and lymphatic system disorders			
Neutropenia			
subjects affected / exposed	2 / 38 (5.26%)	2 / 37 (5.41%)	0 / 39 (0.00%)
occurrences (all)	2	2	0
General disorders and administration			
site conditions			
Fatigue			
subjects affected / exposed	0 / 38 (0.00%)	2 / 37 (5.41%)	2 / 39 (5.13%)
occurrences (all)	0	2	3
Gastrointestinal disorders			
Diarrhoea			
subjects affected / exposed	1 / 38 (2.63%)	3 / 37 (8.11%)	0 / 39 (0.00%)
occurrences (all)	1	3	0
Nausea			
subjects affected / exposed	2 / 38 (5.26%)	1 / 37 (2.70%)	1 / 39 (2.56%)
occurrences (all)	3	1	1
Respiratory, thoracic and mediastinal disorders			
Cough			
subjects affected / exposed	0 / 38 (0.00%)	0 / 37 (0.00%)	2 / 39 (5.13%)
occurrences (all)			
	0	0	2
Oropharyngeal pain			
subjects affected / exposed	2 / 38 (5.26%)	0 / 37 (0.00%)	0 / 39 (0.00%)
occurrences (all)	2	0	0

Rash	I	l	
subjects affected / exposed	2 / 38 (5.26%)	2 / 37 (5.41%)	3 / 39 (7.69%)
occurrences (all)	2	2	3
	_	_	-
Alopecia			
subjects affected / exposed	2 / 38 (5.26%)	0 / 37 (0.00%)	2 / 39 (5.13%)
occurrences (all)	2	0	2
Pruritus generalised			
subjects affected / exposed	0 / 38 (0.00%)	2 / 37 (5.41%)	0 / 39 (0.00%)
occurrences (all)	0	2	0
Psychiatric disorders Insomnia			
subjects affected / exposed	0 / 38 (0.00%)	1 / 37 (2.70%)	2 / 39 (5.13%)
occurrences (all)	0 / 58 (0.00 %)		2 / 59 (5.15 %)
	0	1	2
Musculoskeletal and connective tissue			
disorders Arthralgia			
subjects affected / exposed	1 / 38 (2.63%)	2 / 37 (5.41%)	4 / 39 (10.26%)
occurrences (all)	1	2	4
	_		
Muscle spasms			
subjects affected / exposed	2 / 38 (5.26%)	0 / 37 (0.00%)	1 / 39 (2.56%)
occurrences (all)	2	0	1
Pain in extremity			
subjects affected / exposed	2 / 38 (5.26%)	0 / 37 (0.00%)	0 / 39 (0.00%)
occurrences (all)	2	0	0
		-	-
Infections and infestations			
Nasopharyngitis subjects affected / exposed	6 / 29 (15 700/)		4 / 20 (10 260()
occurrences (all)	6 / 38 (15.79%)	2 / 37 (5.41%)	4 / 39 (10.26%)
	7	2	4
Upper respiratory tract infection			
subjects affected / exposed	4 / 38 (10.53%)	2 / 37 (5.41%)	4 / 39 (10.26%)
occurrences (all)	4	2	5
Urinary tract infection subjects affected / exposed	0 / 20 /0 000/ )		
	0 / 38 (0.00%)	0 / 37 (0.00%)	1 / 39 (2.56%)
occurrences (all)	0	0	1
Bronchitis			
subjects affected / exposed	1 / 38 (2.63%)	1 / 37 (2.70%)	1 / 39 (2.56%)
occurrences (all)	1	1	1
I			

Gastroenteritis viral subjects affected / exposed occurrences (all)	2 / 38 (5.26%) 2	1 / 37 (2.70%) 1	3 / 39 (7.69%) 3
Sinusitis			
subjects affected / exposed	0 / 38 (0.00%)	2 / 37 (5.41%)	1 / 39 (2.56%)
occurrences (all)	0	2	1
Pharyngitis subjects affected / exposed occurrences (all)	2 / 38 (5.26%) 2	0 / 37 (0.00%) 0	0 / 39 (0.00%)
	٤	Ū	Ū
Oral herpes			
subjects affected / exposed	2 / 38 (5.26%)	1 / 37 (2.70%)	0 / 39 (0.00%)
occurrences (all)	2	1	0
Pneumonia			
subjects affected / exposed	2 / 38 (5.26%)	0 / 37 (0.00%)	0 / 39 (0.00%)
occurrences (all)	2	0	0

Non-serious adverse events	Placebo		
Total subjects affected by non-serious adverse events			
subjects affected / exposed	21 / 36 (58.33%)		
Investigations			
Alanine aminotransferase increased			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences (all)	0		
Aspartate aminotransferase increased			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences (all)	0		
Injury, poisoning and procedural complications Fall			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences (all)	0		
Vascular disorders			
Hypertension			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences (all)	0		
Nervous system disorders			

Dizziness	l	I	
subjects affected / exposed	3 / 36 (8.33%)		
occurrences (all)			
	4		
Headache			
subjects affected / exposed	1 / 36 (2.78%)		
occurrences (all)	1		
	-		
Sciatica			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences (all)	0		
Blood and lymphatic system disorders			
Neutropenia			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences (all)	0		
	_		
General disorders and administration site conditions			
Fatigue			
subjects affected / exposed	2 / 36 (5.56%)		
occurrences (all)	2		
Gastrointestinal disorders			
Diarrhoea			
subjects affected / exposed	1 / 36 (2.78%)		
occurrences (all)	1		
Nausea			
subjects affected / exposed	1 / 36 (2.78%)		
occurrences (all)	1		
	-		
Respiratory, thoracic and mediastinal			
disorders Cough			
subjects affected / exposed	3 / 36 (8.33%)		
occurrences (all)			
	3		
Oropharyngeal pain			
subjects affected / exposed	0 / 36 (0.00%)		
occurrences (all)	0		
	-		
Skin and subcutaneous tissue disorders			
Rash			
subjects affected / exposed	2 / 36 (5.56%)		
occurrences (all)	2		
Alopecia			
	I	I	I

subjects affected / exposed		I
	2 / 36 (5.56%)	
occurrences (all)	2	
Pruritus generalised		
subjects affected / exposed	0 / 26 /0 000/)	
	0 / 36 (0.00%)	
occurrences (all)	0	
Psychiatric disorders		
Insomnia		
subjects affected / exposed	1 / 36 (2.78%)	
occurrences (all)	1	
	1	
Musculoskeletal and connective tissue disorders		
Arthralgia		
subjects affected / exposed	0 / 36 (0.00%)	
occurrences (all)	0	
Muscle spasms		
subjects affected / exposed	0 / 36 (0.00%)	
occurrences (all)	0	
Pain in extremity		
subjects affected / exposed	0 / 36 (0.00%)	
occurrences (all)	0	
Infections and infestations		
Nasopharyngitis		
subjects affected / exposed	4 / 36 (11.11%)	
occurrences (all)	5	
	5	
Upper respiratory tract infection		
subjects affected / exposed	4 / 36 (11.11%)	
occurrences (all)	5	
Urinary tract infection		
subjects affected / exposed	6 / 36 (16.67%)	
occurrences (all)	6	
Bronchitis		
subjects affected / exposed	2/26/0 220/)	
	3 / 36 (8.33%)	
occurrences (all)	3	
Gastroenteritis viral		
subjects affected / exposed	0 / 36 (0.00%)	
	-, (,	
I occurrences (all)	0	
occurrences (all)	0	

subjects affected / exposed occurrences (all)	3 / 36 (8.33%) 3	
Pharyngitis		
subjects affected / exposed	2 / 36 (5.56%)	
occurrences (all)	2	
Oral herpes		
subjects affected / exposed	0 / 36 (0.00%)	
occurrences (all)	0	
Pneumonia		
subjects affected / exposed	0 / 36 (0.00%)	
occurrences (all)	0	

# Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

either complete Week 24 visit or prematurely discontinue from the study. 3) Assembly of an internal unblinded team independent of the blinded study te to closely monitor study progress and drug safety.	Date	Amendment
Information Sheet/Informed Consent Form.	12 July 2018	<ol> <li>Addition of biomarker sample collection at Day 1 and Week 18 visits.</li> <li>Addition of a primary and secondary analysis to be conducted after all subjects either complete Week 24 visit or prematurely discontinue from the study.</li> <li>Assembly of an internal unblinded team independent of the blinded study team to closely monitor study progress and drug safety.</li> <li>"Pharmacogenomic" was changed to "Genomic" for consistency with the Patient</li> </ol>

# Interruptions (globally)

Were there any global interruptions to the trial? No

## Limitations and caveats

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

An unplanned review of unblinded clinical trial data was performed in this study that was not prospectively specified in the protocol. There was no impact on the overall integrity or conclusions of the study.

Notes: