

Clinical trial results:

A Phase 2a, Randomized, Double-Blind, Placebo-Controlled, Dose-Ranging, Parallel Group Study to Evaluate Safety, Tolerability, and Pharmacodynamics of PF-05221304 Administered Daily for 16-Weeks to Adult Subjects With Nonalcoholic Fatty Liver Disease **Summary**

EudraCT number	2017-001156-55
Trial protocol	PL
Global end of trial date	27 March 2019
Results information	•
Result version number	v1 (current)
This version publication date	29 January 2021
First version publication date	29 January 2021
Trial information	
Trial identification	
Sponsor protocol code	C1171002
Additional study identifiers	•
ISRCTN number	-
ClinicalTrials.gov id (NCT number)	-
WHO universal trial number (UTN)	-
Notes:	
Sponsors	
Sponsor organisation name	Pfizer, Inc
Sponsor organisation address	235 E 42nd Street, New York, United States, NY 10017
Public contact	Pfizer ClinicalTrials.gov Call Center, Pfizer, Inc, +1 8007181021, ClinicalTrials.gov_Inquiries@pfizer.com
Scientific contact	Pfizer ClinicalTrials.gov Call Center, Pfizer, Inc, +1 8007181021, ClinicalTrials.gov_Inquiries@pfizer.com
Notes:	

Paediatric	regulatory	details
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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:

Analysis stage	Final
Date of interim/final analysis	14 October 2019

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Is this the analysis of the primary completion data?	Yes
Primary completion date	26 February 2019
Global end of trial reached?	Yes
Global end of trial date	27 March 2019
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

This study was designed as a dose-ranging trial with placebo and 4 active doses of PF-05221304 to assess the safety, tolerability and the effect of PF-05221304 on liver fat.

Protection of trial subjects:

This study was conducted in compliance with the ethical principles originating in or derived from the Declaration of Helsinki and in compliance with all International Council for Harmonisation (ICH) Good Clinical Practice (GCP) Guidelines. In addition, all local regulatory requirements were followed, in particular, those affording greater protection to the safety of trial subjects.

Background therapy: -	
Evidence for comparator: -	
Actual start date of recruitment	22 August 2017
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No

Notes:

Population of trial subjects

Subjects enrolled per country	
Country: Number of subjects enrolled	Australia: 11
Country: Number of subjects enrolled	Canada: 56
Country: Number of subjects enrolled	Israel: 25
Country: Number of subjects enrolled	Taiwan: 6
Country: Number of subjects enrolled	United States: 138
Country: Number of subjects enrolled	Poland: 69
Worldwide total number of subjects	305
EEA total number of subjects	69

Notes:

Subjects enrolled per age group	
In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0
Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	242
From 65 to 84 years	63
85 years and over	0

Subject disposition

Recruitment Recruitment details: Pre-assignment Screening details:

Screening details:	
	acebo-controlled, 5 arm (placebo, plus 4 active doses of PF- of 305 subjects were assigned to study treatment.
	,
Period 1	
Period 1 title	Overall Study (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
Arms	
Are arms mutually exclusive?	Yes
Arm title	Placebo
Arm description:	
Placebo matched to PF-05221304 tablet orally once daily (QD) for up to 16 weeks	
Arm type	Placebo
Investigational medicinal product name	Placebo matching PF-05221304 tablet strengths of 1 mg and 5 mg
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
2 tablets orally QD for up to 16 weeks.	
Investigational medicinal product name	Placebo matching PF-05221304 tablet strengths of 25 mg and 50 mg.
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
1 tablet orally QD for up to 16 weeks.	
Arm title	PF-05221304 2 mg
Arm description:	
PF-05221304 tablet was administered or	ally at 2 mg QD for up to 16 weeks.
Arm type	Experimental
Investigational medicinal product name	PF-05221304
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
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Dosage and administration details:	
1 mg PF-05221304 tablet 2 tables orally	QD for up to 16 weeks.

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Arm description:		
PF-05221304 tablet was administered or	ally at 10 mg QD for up to 16 weeks.	
Arm type	Experimental	
Investigational medicinal product name	PF-05221304	
Investigational medicinal product code		
Other name		
Pharmaceutical forms	Tablet	
Routes of administration	Oral use	
Dosage and administration details:		
5 mg PF-05221304 tablet 2 tablets orally	QD for up to 16 weeks.	
Arm title	PF-05221304 25 mg	
Arm description:		
PF-05221304 tablet was administered or	ally at 25 mg QD for up to 16 weeks.	
Arm type	Experimental	
Investigational medicinal product name	PF-05221304	
Investigational medicinal product code		
Other name		
Pharmaceutical forms	Tablet	
Routes of administration	Oral use	
Dosage and administration details:		
25 mg PF-05221304 tablet 1 tablet orally QD for up to 16 weeks.		
Arm title	PF-05221304 50 mg	
Arm description:		
PF-05221304 tablet was administered orally at 50 mg QD for up to 16 weeks.		
Arm type	Experimental	
Investigational medicinal product name	PF-05221304	
Investigational medicinal product code		

Arm type	Experimental
Investigational medicinal product name	PF-05221304
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

50 mg PF-05221304 tablet 1 tablet orally QD for up to 16 weeks.

Number of subjects in period 1	Placebo	PF-05221304 2 mg PF-05221304 1	
Started	61	63	62
Completed	54	58	55
Not completed	7	5	7
Protocol deviation	2	-	2
Adverse event, non-fatal	3	3	2
Consent withdrawn by subject	2	2	3
Lost to follow-up	-	-	-

Number of subjects in period 1	PF-05221304 25 mg	PF-05221304 50 mg	
Started	58	61	
Completed	48	48	

Not completed	10	13
Protocol deviation	-	1
Adverse event, non-fatal	6	9
Consent withdrawn by subject	4	2
Lost to follow-up	-	1

Baseline characteristics

Reporting groups

Reporting group title	Overall Study
Reporting aroup title	TOVELAII SLUUV

Reporting group description: -

Reporting group values	Overall Study	Total	
Number of subjects	305	305	
Age Categorical			
Units: Subjects			
Adults (18-44 years)	65	65	
Adults (45-64 years)	177	177	
Adults (>=65 years)	63	63	
Age Continuous			
Units: years			
geometric mean	53.38		
standard deviation	± 11.99	-	
Gender Categorical			
Units: Subjects			
Female	171	171	
Male	134	134	
Race/Ethnicity			
Units: Subjects			
White	252	252	
Black or African American	4	4	
Asian	38	38	
American Indian or Alaska Native	1	1	
Native Hawaiian or Other Pacific Islander	1	1	
Not Reported	9	9	

Subject analysis sets				
Subject analysis set title	Placebo			
Subject analysis set type	Per protocol			
Subject analysis set description:				
Subjects who received PF-05221304 tab	let orally at 2/10/25/50 mg QD for up to 16 weeks.			
Subject analysis set title	PF-05221304 2 mg			
Subject analysis set type	Per protocol			
Subject analysis set description:				
Subjects who received PF-05221304 tablet orally at 2/10/25/50 mg QD for up to 16 weeks.				
Subject analysis set title	PF-05221304 10 mg			
Subject analysis set type	Per protocol			
Subject analysis set description:				
Subjects who received PF-05221304 tablet orally at 2/10/25/50 mg QD for up to 16 weeks.				
Subject analysis set title	PF-05221304 25 mg			
Subject analysis set type	Per protocol			

Subjects who received PF-05221304 tablet orally at 2/10/25/50 mg QD for up to 16 weeks.

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Subject analysis set description:

Subject analysis set title	PF-05221304 50 mg
Subject analysis set type	Per protocol

Subject analysis set description:

Subjects who received PF-05221304 tablet orally at 2/10/25/50 mg QD for up to 16 weeks.

Reporting group values	Placebo	PF-05221304 2 mg	PF-05221304 10 mg
Number of subjects	61	63	62
Age Categorical			
Units: Subjects			
Adults (18-44 years)	12	10	18
Adults (45-64 years)	40	41	29
Adults (>=65 years)	9	12	15
Age Continuous			
Units: years			
geometric mean	53.33	54.10	52.66
standard deviation	± 10.77	± 11.86	± 12.75
Gender Categorical			
Units: Subjects			
Female	36	37	33
Male	25	26	29
Race/Ethnicity			
Units: Subjects			
White	53	50	52
Black or African American	1	1	1
Asian	5	7	7
American Indian or Alaska Native	0	1	0
Native Hawaiian or Other Pacific Islander	0	1	0
Not Reported	2	3	2

Reporting group values	PF-05221304 25 mg	PF-05221304 50 mg	
Number of subjects	58	61	
Age Categorical			
Units: Subjects			
Adults (18-44 years)	12	13	
Adults (45-64 years)	34	33	
Adults (>=65 years)	12	15	
Age Continuous			
Units: years			
geometric mean	54.02	52.82	
standard deviation	± 11.58	± 13.12	
Gender Categorical			
Units: Subjects			
Female	35	30	
Male	23	31	
Race/Ethnicity			
Units: Subjects			
White	46	51	
Black or African American	1	0	
Asian	9	10	
American Indian or Alaska Native	0	0	

Native Hawaiian or Other Pacific Islander	0	0	
Not Reported	2	0	

End points

End points reporting grou	ps
Reporting group title	Placebo
Reporting group description:	
Placebo matched to PF-0522130 orally once daily (QD) for up to	
Reporting group title	PF-05221304 2 mg
Reporting group description:	
PF-05221304 tablet was adminis	stered orally at 2 mg QD for up to 16 weeks.
Reporting group title	PF-05221304 10 mg
Reporting group description:	
PF-05221304 tablet was adminis	stered orally at 10 mg QD for up to 16 weeks.
Reporting group title	PF-05221304 25 mg
Reporting group description:	
PF-05221304 tablet was adminis	stered orally at 25 mg QD for up to 16 weeks.
Reporting group title	PF-05221304 50 mg
Reporting group description:	•
PF-05221304 tablet was adminis	stered orally at 50 mg QD for up to 16 weeks.
Subject analysis set title	Placebo
Subject analysis set type	Per protocol
Subject analysis set description:	
Subjects who received PF-05221	1304 tablet orally at 2/10/25/50 mg QD for up to 16 weeks.
Subject analysis set title	PF-05221304 2 mg
Subject analysis set type	Per protocol
Subject analysis set description:	
Subjects who received PF-05221	1304 tablet orally at 2/10/25/50 mg QD for up to 16 weeks.
Subject analysis set title	PF-05221304 10 mg
Subject analysis set type	Per protocol
Subject analysis set description:	
Subjects who received PF-05221	1304 tablet orally at 2/10/25/50 mg QD for up to 16 weeks.
Subject analysis set title	PF-05221304 25 mg
Subject analysis set type	Per protocol
Subject analysis set description:	
Subjects who received PF-05221	1304 tablet orally at 2/10/25/50 mg QD for up to 16 weeks.
Subject analysis set title	PF-05221304 50 mg
Subject analysis set type	Per protocol
Subject analysis set description:	
Subjects who received PF-05221	1304 tablet orally at 2/10/25/50 mg QD for up to 16 weeks.
	from Baseline in Liver Fat by Magnetic Resonance at Fraction (MRI- PDFF) at Week 16
End point title	Percent Change from Baseline in Liver Fat by Magnetic Resonance Imaging-Proton Density Fat Fraction (MRI- PDFF) at Week 16
End point description:	
decay (due to iron overload) via components from 5 different lipi technique improved fat quantific differences/changes following ph	no sequence with low flip angle (FA) to minimize T1 bias, corrected T2* modeling of the fat signal as a superposition of multiple frequency d types, and was applied in each of the 9 Couinaud segments. This cation accuracy for the entire liver permitting quantification of small narmacological intervention. All randomized subjects who received at y treatment and with non-missing baseline and post-baseline endpoint.
	y a cauncine and with non-missing paseinle and post-paseinle endpoint.

End point type

Primary

End point values	Placebo	PF-05221304 2 mg	PF-05221304 10 mg	PF-05221304 25 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	55	59	57	54
Units: Percent change				
least squares mean (confidence interval 80%)	-7.2 (-13.9 to 0.0)	-17.1 (-22.7 to -11.1)	-49.9 (-53.3 to -46.2)	-55.9 (-59.0 to -52.4)

End point values	PF-05221304 50 mg		
Subject group type	Reporting group		
Number of subjects analysed	51		
Units: Percent change			
least squares mean (confidence interval 80%)	-64.8 (-67.5 to -62.0)		

Statistical analysis title	Placebo, PF-05221304	
Comparison groups	Placebo v PF-05221304 2 mg	
Number of subjects included in analysis	114	
Analysis specification	Pre-specified	
Analysis type	superiority	
Parameter estimate	Mean difference (net)	
Point estimate	-10.7	
Confidence interval		
level	Other: 80 %	
sides	2-sided	
lower limit	-19.4	
upper limit	-1.1	

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Placebo, PF-05221304 10 mg
Placebo v PF-05221304 10 mg
112
Pre-specified
superiority
Mean difference (net)
-46
Other: 80 %

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sides	2-sided
lower limit	-51.3
upper limit	-40.1

Statistical analysis title	Placebo, PF-05221304 25 mg	
Comparison groups	Placebo v PF-05221304 25 mg	
Number of subjects included in analysis	109	
Analysis specification	Pre-specified	
Analysis type	superiority	
Parameter estimate	Mean difference (net)	
Point estimate	-52.4	
Confidence interval		
level	Other: 80 %	
sides	2-sided	
lower limit	-57.2	
upper limit	-47.1	

Placebo, PF-05221304 50 mg
Placebo v PF-05221304 50 mg
106
Pre-specified
superiority
Mean difference (net)
-62.1
Other: 80 %
2-sided
-66
-57.8

Secondary: Percent Change from Baseline in Alanine Aminotransferase at Week 16			
End point title Percent Change from Baseline in Alanine Aminotransferas Week 16			
End point description:			
	vas denoted by reduction in alanine transaminase (ALT). All ast 1 dose of randomized study treatment and teatohepatitis.		
End point type Secondary			
End point timeframe:			
Baseline (Day 1 pre-dose), Week 16			

End point values	Placebo	PF-05221304 2 mg	PF-05221304 10 mg	PF-05221304 25 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	40	42	42	39
Units: Percent change				
least squares mean (confidence interval 80%)	-8.5 (-15.2 to - 1.2)	-12.5 (-18.7 to -5.8)	-27.7 (-32.9 to -22.2)	-31.3 (-36.6 to -25.5)

End point values	PF-05221304 50 mg		
Subject group type	Reporting group		
Number of subjects analysed	40		
Units: Percent change			
least squares mean (confidence interval 80%)	-46.8 (-50.8 to -42.4)		

Statistical analysis title	Placebo, PF-05221304 2 mg
Comparison groups	Placebo v PF-05221304 2 mg
Number of subjects included in analysis	82
Analysis specification	Pre-specified
Analysis type	superiority
Parameter estimate	Mean difference (net)
Point estimate	-4.4
Confidence interval	
level	Other: 80 %
sides	2-sided
lower limit	-14
upper limit	6.3

Statistical analysis title	Placebo, PF-05221304 10 mg	
Comparison groups	Placebo v PF-05221304 10 mg	
Number of subjects included in analysis	82	
Analysis specification	Pre-specified	
Analysis type	superiority	
Parameter estimate	Mean difference (net)	
Point estimate	-21	
Confidence interval		
level	Other: 80 %	
sides	2-sided	
lower limit	-29	
upper limit	-12.2	

Statistical analysis title	Placebo, PF-05221304 25 mg	
Comparison groups	Placebo v PF-05221304 25 mg	
Number of subjects included in analysis	79	
Analysis specification	Pre-specified	
Analysis type	superiority	
Parameter estimate	Mean difference (net)	
Point estimate	-25	
Confidence interval		
level	Other: 80 %	
sides	2-sided	
lower limit	-32.8	
upper limit	-16.1	

Statistical analysis title	Placebo, PF-05221304 50 mg
Comparison groups	Placebo v PF-05221304 50 mg
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
Parameter estimate	Mean difference (net)
Point estimate	-41.8
Confidence interval	
level	Other: 80 %
sides	2-sided
lower limit	-47.9
upper limit	-35

Secondary: Number of Subjects With Treatment-Emergent Adverse Events				
End point title	Number of Subjects With Treatment-Emergent Adverse Events			

End point description:

An adverse event (AE) was any untoward medical occurrence in a study subject administered a product or medical device. A serious AE (SAE) is an AE resulting in any of the following outcomes or deemed significant for any other reason: death; lifethreatening; initial or prolonged inpatient hospitalization; persistent or significant disability/incapacity; congenital anomaly/birth defect. Any such events with initial onset or increasing in severity after the first dose of study treatment were counted as treatment-emergent. All randomized subjects who received at least 1 dose of randomized study treatment.

End point type Secondary
End point timeframe:

End point values	Placebo	PF-05221304 2 mg	PF-05221304 10 mg	PF-05221304 25 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	61	63	62	58
Units: Subjects				
All-causality AE	41	40	42	45
All-causality SAE	0	1	1	2
Treatment-related AE	16	9	12	16
Treatment-related SAE	0	0	0	0

End point values	PF-05221304 50 mg		
Subject group type	Reporting group		
Number of subjects analysed	61		
Units: Subjects			
All-causality AE	40		
All-causality SAE	2		
Treatment-related AE	23		
Treatment-related SAE	0		

No statistical analyses for this end point

Secondary: Number of Subjects With Laboratory Abnormalities

End point title Number of Subjects With Laboratory Abnormalities

End point description:

Following laboratory parameters were assessed against pre-defined abnormality criteria: hematology (hemoglobin, hematocrit, erythrocytes, reticulocytes, platelets, leukocytes, lymphocytes, neutrophils, basophils, eosinophils, monocytes, activated partial thromboplastin time, prothrombin time [PT], PT/international normalized ratio, reticulocytes); chemistry (indirect bilirubin, direct bilirubin, protein, albumin, blood urea nitrogen, creatinine, creatine kinase, urate, calcium, sodium, potassium, chloride, bicarbonate, urine urobilinogen); urinalysis (pH, urine glucose, urine ketones, urine protein, urine hemoglobin, nitrites, leukocyte esterase, urine erythrocytes, urine leukocytes, urine hyaline casts, urine bilirubin, granular casts). All randomized subjects who received at least 1 dose of randomized study treatment and had laboratory data.

End point type	Secondary

End point timeframe:

End point values	Placebo	PF-05221304 2 mg	PF-05221304 10 mg	PF-05221304 25 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	59	63	62	58
Units: Subjects				
With Laboratory Abnormalities	39	44	36	33

End point values	PF-05221304 50 mg		
Subject group type	Reporting group		
Number of subjects analysed	61		
Units: Subjects			
With Laboratory Abnormalities	40		

No statistical analyses for this end point

Secondary: Number of Subjects With Vital Signs Data Meeting Predefined Criteria				
End point title	Number of Subjects With Vital Signs Data Meeting Predefined Criteria			

End point description:

Vital signs categorical summarization criteria: 1) sitting systolic blood pressure (SBP) <90 or >180 millimeters of mercury (mmHg); 2) sitting diastolic blood pressure (DBP) <50 mmHg or >110 mmHg; 3) sitting pulse rate <40 or >120 beats per minute (bpm); 4) change from baseline (increase or decrease) in sitting DBP greater than or equal to (>=) 20 mmHg; 5) change from baseline (increase or decrease) in sitting SBP >=30 mmHg. All randomized subjects who received at least 1 dose of randomized study treatment and had vital signs data.

End point type	Secondary
E 1 : 11: 6	

End point timeframe:

End point values	Placebo	PF-05221304 2 mg	PF-05221304 10 mg	PF-05221304 25 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	60	63	62	58
Units: Subjects				
Sitting SBP <90 mmHg	0	0	0	0
Sitting SBP >180 mmHg	0	0	0	1
Sitting SBP increase >=30 mmHg	5	6	2	2
Sitting SBP decrease >=30 mmHg	2	1	5	7
Sitting DBP >110 mmHg	0	0	0	0
Sitting DBP increase >=20 mmHg	1	4	2	2
Sitting DBP decrease >=20 mmHg	0	4	3	4
Sitting pulse rate <40 bpm	0	0	0	0
Sitting pulse rate >120 bpm	0	0	0	0
Sitting DBP <50 mmHg	1	0	0	0

End point values PF-0522 50 r	304
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Subject group type	Reporting group		
Number of subjects analysed	61		
Units: Subjects			
Sitting SBP <90 mmHg	2		
Sitting SBP >180 mmHg	0		
Sitting SBP increase >=30 mmHg	0		
Sitting SBP decrease >=30 mmHg	6		
Sitting DBP >110 mmHg	1		
Sitting DBP increase >=20 mmHg	3		
Sitting DBP decrease >=20 mmHg	4		
Sitting pulse rate <40 bpm	0		
Sitting pulse rate >120 bpm	0		
Sitting DBP <50 mmHg	0		

No statistical analyses for this end point

Secondary: Number of Subjects With 12-Lead Electrocardiogram (ECG) Data Meeting Predefined Criteria

End point title	Number of Subjects With 12-Lead Electrocardiogram (ECG)
	Data Meeting Predefined Criteria

End point description:

ECG categorical summarization criteria 1.QRS interval (time from ECG Q wave to end of S wave corresponding to ventricle depolarization) $>=140 \, \mathrm{msec} \, 2.\mathrm{QRS}$ interval >=50% change from baseline 3.PR interval (interval between start of P wave and start of QRS complex, corresponding to time between onset of atrial depolarization and onset of ventricular depolarization) $>=300 \, \mathrm{msec} \, 4.\mathrm{PR}$ interval >=25% change when baseline is $>200 \, \mathrm{msec} \, corresponding$ to electrical systole): absolute value of $>=500 \, \mathrm{msec} \, 6.\mathrm{QTcF}$ interval (QT corrected for heart rate using Fridericia's formula) absolute value of $450 \, \mathrm{to} \, <480 \, \mathrm{msec} \, 7.\mathrm{QTcF}$ interval: absolute value of $480 \, \mathrm{to} \, <500 \, \mathrm{msec} \, 8.\mathrm{QTcF}$ interval: a change from baseline of $30 \, \mathrm{to} \, <60 \, \mathrm{msec} \, 10.\mathrm{QTcF}$ interval: a change from baseline $>=60 \, \mathrm{msec}.$ All randomized subjects who received at least 1 dose of randomized study treatment and had ECG data

End point type	Secondary

End point timeframe:

End point values	Placebo	PF-05221304 2 mg	PF-05221304 10 mg	PF-05221304 25 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	60	63	61	58
Units: Subjects				
PR interval >=300 msec	0	0	0	0
%Change in PR interval >=25/50%	0	1	0	1
QRS interval >=140 msec	0	0	1	0
%Change in QRS interval >=50%	0	0	0	0
QT interval >=500 msec	0	0	0	1
QTcF interval >=450 to <480 msec	6	10	7	9
QTcF interval >=480 to <500 msec	0	1	0	1

QTcF interval >=500 msec	0	0	0	0
QTcF interval increase >=30 to 60 msec	5	6	8	10
QTcF interval increase >=60 msec	2	1	0	0

End point values	PF-05221304 50 mg		
Subject group type	Reporting group		
Number of subjects analysed	60		
Units: Subjects			
PR interval >=300 msec	0		
%Change in PR interval >=25/50%	1		
QRS interval >=140 msec	0		
%Change in QRS interval >=50%	0		
QT interval >=500 msec	0		
QTcF interval >=450 to <480 msec	3		
QTcF interval >=480 to <500 msec	1		
QTcF interval >=500 msec	0		
QTcF interval increase >=30 to 60 msec	4		
QTcF interval increase >=60 msec	0		

No statistical analyses for this end point

Adverse events

Adverse events information				
Timeframe for reporting adverse events:				
From first dose of study treatment up to	20 weeks.			
Assessment type	Non-systematic			
Dictionary used				
Dictionary name	MedDRA			
Dictionary version	22.0			
Reporting groups				
Reporting group title	Placebo			
Reporting group description:	•			
Placebo matched to PF-05221304 tablet orally once daily (QD) for up to 16 week				
Reporting group title	PF-05221304 2 mg			
Reporting group description:				
PF-05221304 tablet was administered o	rally at 2 mg QD for up to 16 weeks.			
Reporting group title PF-05221304 10 mg				
Reporting group description:				
PF-05221304 tablet was administered o	rally at 10 mg QD for up to 16 weeks.			
Reporting group title	PF-05221304 25 mg			
Reporting group description:				
PF-05221304 tablet was administered orally at 25 mg QD for up to 16 weeks.				
Reporting group title	Reporting group title PF-05221304 50 mg			
Reporting group description:				
PF-05221304 tablet was administered orally at 50 mg QD for up to 16 weeks.				

Serious adverse events	Placebo	PF-05221304 2 mg	PF-05221304 10 mg
Total subjects affected by serious adverse events			
subjects affected / exposed	0 / 61 (0.00%)	1 / 63 (1.59%)	1 / 62 (1.61%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Injury, poisoning and procedural complications			
Rib fissure	Additional description: Ril	b fracture	
subjects affected / exposed	0 / 61 (0.00%)	0 / 63 (0.00%)	1 / 62 (1.61%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0/0
Cardiac disorders			
Angina	Additional description: An	igina unstable	
subjects affected / exposed	0 / 61 (0.00%)	0 / 63 (0.00%)	0 / 62 (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

1	1		
Myocardial infarct subjects affected / exposed	0 / 61 (0 000/)	1 / 62 /1 500/)	0 / 62 (0 00%)
	0 / 61 (0.00%)	1 / 63 (1.59%)	0 / 62 (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
Myocardial ischemia			
subjects affected / exposed	0 / 61 (0.00%)	0 / 63 (0.00%)	0 / 62 (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
Respiratory, thoracic and mediastinal disorders			
Asthmatic			
subjects affected / exposed	0 / 61 (0.00%)	0 / 63 (0.00%)	0 / 62 (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
Renal and urinary disorders			
Renal colic			
subjects affected / exposed	0 / 61 (0.00%)	0 / 63 (0.00%)	0 / 62 (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			
pneumonia			
subjects affected / exposed	0 / 61 (0.00%)	1 / 63 (1.59%)	0 / 62 (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
upper respiratory tract infection			
subjects affected / exposed	0 / 61 (0.00%)	0 / 63 (0.00%)	1 / 62 (1.61%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Serious adverse events	PF-05221304 25 mg	PF-05221304 50 mg	
Total subjects affected by serious adverse events			
subjects affected / exposed	2 / 58 (3.45%)	2 / 61 (3.28%)	
number of deaths (all causes)	0	0	
number of deaths resulting from adverse events	0	0	
Injury, poisoning and procedural complications			
Rib fissure	Additional description: Rib	o fracture	

subjects affected / exposed	0 / 58 (0.00%)	0 / 61 (0.00%)	
occurrences causally related to treatment / all	0/0	0 / 0	
deaths causally related to treatment / all	0/0	0/0	
Cardiac disorders			
Angina	Additional description: An	gina unstable	
subjects affected / exposed	1 / 58 (1.72%)	0 / 61 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Myocardial infarct			
subjects affected / exposed	0 / 58 (0.00%)	0 / 61 (0.00%)	
occurrences causally related to treatment / all	0/0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Myocardial ischemia			
subjects affected / exposed	1 / 58 (1.72%)	0 / 61 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0/0	0 / 0	
Respiratory, thoracic and mediastinal disorders			
Asthmatic			
subjects affected / exposed	0 / 58 (0.00%)	1 / 61 (1.64%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0/0	0 / 0	
Renal and urinary disorders			
Renal colic			
subjects affected / exposed	0 / 58 (0.00%)	1 / 61 (1.64%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0/0	0 / 0	
Infections and infestations			
pneumonia			
subjects affected / exposed	0 / 58 (0.00%)	0 / 61 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
upper respiratory tract infection	[
subjects affected / exposed	0 / 58 (0.00%)	0 / 61 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	

deaths as a like a late dita			
deaths causally related to			
treatment / all	0 / 0	0 / 0	

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

Non-serious adverse events	Placebo	PF-05221304 2 mg	PF-05221304 10 mg
	Tideebo	11 0322130	11 03221304 10 1119
Total subjects affected by non-serious adverse events			
subjects affected / exposed	27 / 61 (44.26%)	21 / 63 (33.33%)	25 / 62 (40.32%)
Investigations			
Blood triglycerides increased			
subjects affected / exposed	0 / 61 (0.00%)	0 / 63 (0.00%)	1 / 62 (1.61%)
occurrences (all)	0	0	1
Nervous system disorders			
Dizziness			
subjects affected / exposed	4 / 61 (6.56%)	3 / 63 (4.76%)	1 / 62 (1.61%)
occurrences (all)	4	3	2
Headache			
subjects affected / exposed	8 / 61 (13.11%)	3 / 63 (4.76%)	3 / 62 (4.84%)
occurrences (all)	10	3	4
General disorders and administration site conditions			
Fatigue			
subjects affected / exposed	5 / 61 (8.20%)	3 / 63 (4.76%)	2 / 62 (3.23%)
occurrences (all)	5	3	2
Gastrointestinal disorders			
Abdominal pain upper			
subjects affected / exposed	1 / 61 (1.64%)	0 / 63 (0.00%)	1 / 62 (1.61%)
occurrences (all)	1	0	1
Diarrhoea			
subjects affected / exposed	3 / 61 (4.92%)	3 / 63 (4.76%)	8 / 62 (12.90%)
occurrences (all)	3	4	12
Nausea			
subjects affected / exposed	3 / 61 (4.92%)	0 / 63 (0.00%)	3 / 62 (4.84%)
occurrences (all)	3	0	3
Skin and subcutaneous tissue disorders			
Pruritus			
subjects affected / exposed	1 / 61 (1.64%)	2 / 63 (3.17%)	0 / 62 (0.00%)

cocarrences (an)	1	2	U
	I		
Musculoskeletal and connective tissue			
disorders			
Arthralgia			- / /
subjects affected / exposed	1 / 61 (1.64%)	1 / 63 (1.59%)	3 / 62 (4.84%)
occurrences (all)	1	1	3
Muscle spasms			
subjects affected / exposed	4 / 61 (6.56%)	0 / 63 (0.00%)	2 / 62 (3.23%)
occurrences (all)	4	0	2
Pain in extremity			
subjects affected / exposed	2 / 61 (3.28%)	3 / 63 (4.76%)	4 / 62 (6.45%)
occurrences (all)	2	3	4
Metabolism and nutrition disorders			
Hypertriglyceridaemia			
subjects affected / exposed	2 / 61 (3.28%)	1 / 63 (1.59%)	6 / 62 (9.68%)
occurrences (all)	2	1	6
nfections and infestations			
Nasopharyngitis			
subjects affected / exposed	2 / 61 (3.28%)	0 / 63 (0.00%)	3 / 62 (4.84%)
occurrences (all)	2	0	3
Upper respiratory tract infection			
subjects affected / exposed	2 / 61 (3.28%)	6 / 63 (9.52%)	3 / 62 (4.84%)
occurrences (all)	2	8	3
Urinary tract infection			
subjects affected / exposed	1 / 61 (1.64%)	1 / 63 (1.59%)	2 / 62 (3.23%)
occurrences (all)	1	1	2
Non-serious adverse events	PF-05221304 25 mg	PF-05221304 50 mg	
Total subjects affected by non-serious adverse events			
subjects affected / exposed	31 / 58 (53.45%)	29 / 61 (47.54%)	
nvestigations			
Blood triglycerides increased			
subjects affected / exposed	3 / 58 (5.17%)	2 / 61 (3.28%)	
occurrences (all)	3	3	
Nervous system disorders			
D: :	i .	i .	

occurrences (all)

subjects affected / exposed

Dizziness

occurrences (all)

3 / 61 (4.92%)

3

3 / 58 (5.17%)

3

Headache			
subjects affected / exposed	7 / 58 (12.07%)	4 / 61 (6.56%)	
occurrences (all)	7	5	
General disorders and administration site conditions			
Fatigue subjects affected / exposed	2 / 58 (3.45%)	2 / 61 (3.28%)	
occurrences (all)			
occurrences (un)	2	2	
Gastrointestinal disorders			
Abdominal pain upper			
subjects affected / exposed	6 / 58 (10.34%)	1 / 61 (1.64%)	
occurrences (all)	7	1	
Diarrhoea			
subjects affected / exposed	2 / 58 (3.45%)	4 / 61 (6.56%)	
occurrences (all)	4	4	
Nausea			
subjects affected / exposed	5 / 58 (8.62%)	4 / 61 (6.56%)	
occurrences (all)	6	4	
Skin and subcutaneous tissue disorders			
Pruritus			
subjects affected / exposed	3 / 58 (5.17%)	1 / 61 (1.64%)	
occurrences (all)	3	1	
Musculoskeletal and connective tissue			
disorders			
Arthralgia subjects affected / exposed	. , == , = == , .		
	4 / 58 (6.90%)	0 / 61 (0.00%)	
occurrences (all)	4	0	
Muscle spasms			
subjects affected / exposed	1 / 58 (1.72%)	0 / 61 (0.00%)	
occurrences (all)	1	0	
Pain in extremity			
subjects affected / exposed	2 / 58 (3.45%)	1 / 61 (1.64%)	
occurrences (all)	2	1	
Metabolism and nutrition disorders			
Hypertriglyceridaemia			
subjects affected / exposed	4 / 58 (6.90%)	10 / 61 (16.39%)	
occurrences (all)	4	12	
Infections and infestations			

Nasopharyngitis subjects affected / exposed occurrences (all)	3 / 58 (5.17%) 3	2 / 61 (3.28%) 2	
Upper respiratory tract infection subjects affected / exposed occurrences (all)	3 / 58 (5.17%) 3	2 / 61 (3.28%) 2	
Urinary tract infection subjects affected / exposed occurrences (all)	5 / 58 (8.62%) 5	4 / 61 (6.56%) 4	

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
24 July 2017	This amendment was making substantial changes as requested by the United States Food and Drug Administration (US FDA) as part of their review of the original protocol submitted on 11May2017.
03 October 2017	This amendment was making the substantial changes to align with the Pfizer Enterprise-level revision to appropriate measures to prevent pregnancy in the population of childbearing potential enrolled who are sexually active and align with the Clinical Trial Facilitation Group (CTFG) 2014 European Guidance.

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported