

Clinical trial results: Safety and Tolerability of Sildenafil in Patients with Eisenmenger Physiology

Summary

EudraCT number	2006-004705-26	
Trial protocol	GB	
Global end of trial date	27 February 2009	
Results information		
Result version number	v1 (current)	
This version publication date	06 June 2020	
First version publication date	06 June 2020	

Trial information

WHO universal trial number (UTN)

Trial identification		
Sponsor protocol code	CRO529	
Additional study identifiers		
ISRCTN number	-	
ClinicalTrials.gov id (NCT number)	-	

Notes:

Sponsors		
Sponsor organisation name	Imperial College London	
Sponsor organisation address	South Kensington Campus, London, United Kingdom, SW7 2AZ	
Public contact	PROFESSOR MICHAEL GATZOULIS, Imperial College London, +44 (0)20 7352 8121, m.gatzoulis@imperial.ac.uk	
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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	Final
Date of interim/final analysis	01 February 2010
Is this the analysis of the primary completion data?	Yes
Primary completion date	27 February 2009
Global end of trial reached?	Yes
Global end of trial date	27 February 2009
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

To examine safety and tolerability of oral sildenafil in patients with Eisenmenger physiology.

Primary endpoint:

Effects of sildenafil on systemic oxygen saturation in patients with pulmonary arterial hypertension related to Eisenmenger physiology

Protection of trial subjects:	
None	
Background therapy: -	
Evidence for comparator: -	
Actual start date of recruitment	01 April 2008
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	United Kingdom: 12
Worldwide total number of subjects	12
EEA total number of subjects	12

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)	12	
From 65 to 84 years	0	
85 years and over	0	

Subject disposition

Recruitment

Recruitment details:

Patients with Eisenmenger physiology (non-restrictive intra- or extra-cardiac communication with a right-to-left shunt at rest), in New York Heart Association (NYHA) class III and followed at a single tertiary center were recruited. Twelve patients with Eisenmenger physiology were recruited between April 2008 and February 2009.

Pre-assignment

Screening details:

All participants were admitted to the hospital for 2 days at the start of the study. Baseline assessment consisted of a QoL questionnaire, transthoracic echocardiogram, six-minute walk test (6MWT) and blood test.

Period 1		
Period 1 title	Overall (overall period)	
Is this the baseline period?	Yes	
Allocation method	Non-randomised - controlled	
Blinding used	Not blinded	
Blinding implementation details:		
Open-label study		
Arms		
Arm title	all patients	
Arm description:		
All participants received Sildenafil for 3 r	months.	
Arm type	Experimental	
Investigational medicinal product name	Sildenafil	
Investigational medicinal product code		
Other name	Revatio ® 20 mg film-coated tablets	
Pharmaceutical forms	Tablet	
Routes of administration	Oral use	

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Number of subjects in period 1	all patients	
Started	12	
Completed	12	

Dosage and administration details: 20 mg three times daily for 3 months

Baseline characteristics

Reporting groups

Reporting group title	Overall

Reporting group description: -

Reporting group values	Overall	Total	
Number of subjects	12	12	
Age categorical			
Units: Subjects			
Adults (18-64 years)	12	12	
Age continuous			
Units: years			
arithmetic mean	34.3		
standard deviation	± 10.2	-	
Gender categorical			
Units: Subjects			
Female	10	10	
Male	2	2	

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End points

Reporting group title	all patients	·
Reporting group description:		
All participants received Sildenafi	il for 3 months.	
Subject analysis set title	Baseline	
Subject analysis set type	Sub-group analysis	
Subject analysis set description:		_
Baseline data of the participants		
Primary: Oxygen saturation	n	
End point title	Oxygen saturation	
End point description:		
End point type	Primary	
End point timeframe:		
3 months		

End point values	all patients	Baseline	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	12	12	
Units: percent			
arithmetic mean (standard deviation)	82.6 (± 11)	83.8 (± 3.8)	

Statistical analyses

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Statistical analysis title	Oxigen saturation	
Statistical analysis description:		
Baseline compare to 3 months		
Comparison groups	all patients v Baseline	
Number of subjects included in analysis	24	
Analysis specification	Pre-specified	
Analysis type	superiority	
P-value	= 0.76	
Method	Fisher exact	

Secondary: Camphor scores Symptoms		
End point title	Camphor scores Symptoms	
End point description:		
End point type	Secondary	

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End point timeframe:	
3 months	

End point values	all patients	Baseline	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	12	12	
Units: scores			
arithmetic mean (standard deviation)	5.3 (± 3.6)	11 (± 2.7)	

Statistical analyses

Statistical analysis title	Symptome scores	
Statistical analysis description:		
Compare baseline to 3 months		
Comparison groups	all patients v Baseline	
Number of subjects included in analysis	24	
Analysis specification	Pre-specified	
Analysis type	superiority	
P-value	= 0.002	
Method	Fisher exact	

Adverse events

Adverse events informat	ion	
Timeframe for reporting advers	se events:	
3 months		
Assessment type	Systematic	
Dictionary used		
Dictionary name	MedDRA	
Dictionary version	10	
Reporting groups		
Reporting group title	all patients	

All participants received Sildenafil for 3 months.Reporting roup title

Respiratory, thoracic and mediastinal disorders		
Nasal congestion		
subjects affected / exposed	2 / 12 (16.67%)	
occurrences (all)	2	
Musculoskeletal and connective tissue disorders		
Myalgia		
subjects affected / exposed	4 / 12 (33.33%)	
occurrences (all)	4	
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More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported

Online references

http://www.ncbi.nlm.nih.gov/pubmed/20304507

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