

**Clinical trial results:****Phase III Randomized Clinical Trial of Lurbinectedin (PM01183) versus Pegylated Liposomal Doxorubicin or Topotecan in Patients with Platinum-resistant Ovarian Cancer (CORAIL Trial)****Summary**

EudraCT number	2014-005251-39
Trial protocol	HU ES CZ AT BE GB FR DE IT
Global end of trial date	12 October 2018

**Results information**

Result version number	v1
This version publication date	17 October 2019
First version publication date	17 October 2019

**Trial information****Trial identification**

Sponsor protocol code	PM1183-C-004-14
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**Additional study identifiers**

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	-
WHO universal trial number (UTN)	-

Notes:

**Sponsors**

Sponsor organisation name	Pharma Mar, S.A.
Sponsor organisation address	Avenida de los Reyes, 1 Polígono Industrial "La Mina", Colmenar Viejo, Madrid, Spain, 28770
Public contact	Clinical Development, Department of PharmaMar's Oncology., Business Unit., Pharmamar, S.A., 34 918466000, clinicaltrials@pharmamar.com
Scientific contact	Clinical Development, Department of PharmaMar's Oncology., Business Unit., Pharmamar, S.A., 34 918466000, clinicaltrials@pharmamar.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	Final
Date of interim/final analysis	31 May 2019
Is this the analysis of the primary completion data?	Yes
Primary completion date	12 October 2018
Global end of trial reached?	Yes
Global end of trial date	12 October 2018
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

To determine a difference in progression-free-survival (PFS) between lurbinectedin (PM01183) and pegylated liposomal doxorubicin (PLD) or topotecan in platinum-resistant ovarian cancer patients according to the Response Evaluation Criteria in Solid Tumors (RECIST) v.1.1.

Protection of trial subjects:

The study was in compliance with ethical principles derived from the Declaration of Helsinki and the International Conference on Harmonization (ICH) Good Clinical Practice (GCP) guidelines. All the local requirements pertinent to safety of trial subjects were also followed during the conduct of the trial.

Background therapy:

All patients received the following standard antiemetic prophylaxis before each treatment infusion:

- Corticosteroids (dexamethasone i.v. at least 8 mg or equivalent, or at institutional standard antiemetic doses).
- Serotonin (5-HT<sub>3</sub>) antagonists (ondansetron at least 8 mg i.v. or equivalent).

If necessary, in addition to the above, the duration of treatment with 5-HT<sub>3</sub> antagonists and/or dexamethasone could be extended. Additional antiemetic agents could be administered as appropriate. Aprepitant and equivalent agents (e.g., fosaprepitant) were forbidden in patients treated with lurbinectedin.

For the purpose of safety evaluations, an optimal prophylaxis was defined as all the aforementioned allowed medications at their respectively maximum dose.

Evidence for comparator: -

Actual start date of recruitment	26 June 2015
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	Yes

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Romania: 22
Country: Number of subjects enrolled	Spain: 86
Country: Number of subjects enrolled	United Kingdom: 31
Country: Number of subjects enrolled	Austria: 7
Country: Number of subjects enrolled	Belgium: 40
Country: Number of subjects enrolled	Bulgaria: 10
Country: Number of subjects enrolled	Czech Republic: 10
Country: Number of subjects enrolled	France: 31
Country: Number of subjects enrolled	Hungary: 23
Country: Number of subjects enrolled	Italy: 94
Country: Number of subjects enrolled	United States: 79
Country: Number of subjects enrolled	Serbia: 9

Worldwide total number of subjects	442
EEA total number of subjects	354

Notes:

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**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)	267
From 65 to 84 years	172
85 years and over	3

## Subject disposition

### Recruitment

Recruitment details:

First randomization/first study treatment administration took place on 26JUN2015. The cutoff date for results was 12OCT2018.

534 patients were screened; 442 were randomized at 83 sites/12 countries. 10 patients did not receive the study treatment.

### Pre-assignment

Screening details:

IC;Age $\geq$ 18 years;confirmed diagnosis of unresectable epithelial ovarian, fallopian tube or primary peritoneal cancer;Platinum-resistant disease;ECOG PS $\leq$ 2;Adequate hematological, renal, metabolic, and hepatic function

### Period 1

Period 1 title	Overall period (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Not blinded

Blinding implementation details:

Not applicable

### Arms

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Lurbinectedin
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Arm description:

3.2 mg/m<sup>2</sup> i.v. as a 1-hour infusion on Day 1 q3wk (three weeks = one treatment cycle) through peripheral or central lines. A minimum total volume of 100 mL, diluted in 5% glucose or 0.9% sodium chloride solution for infusion, had to be used for administration through a central venous catheter; if a peripheral venous catheter was used, the minimum volume was 250 mL

Arm type	Experimental
Investigational medicinal product name	Lurbinectedin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Powder for concentrate for solution for infusion
Routes of administration	Intravenous use

Dosage and administration details:

3.2 mg/m<sup>2</sup> i.v. as a 1-hour infusion on Day 1 q3wk (three weeks = one treatment cycle) through peripheral or central lines. A minimum total volume of 100 mL, diluted in 5% glucose or 0.9% sodium chloride solution for infusion, had to be used for administration through a central venous catheter; if a peripheral venous catheter was used, the minimum volume was 250 mL

<b>Arm title</b>	Control (PLD or topotecan)
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Arm description:

Patients randomized to the Control arm were assigned to receive PLD if they had previously been treated with topotecan, or to receive topotecan if they had previously been treated with PLD. However, if the number of patients randomized to either PLD or topotecan reached 60% (i.e., 126 patients) of the total number of patients expected in the Control Arm, then the treatment of choice in the Control Arm would be restricted to the less frequent control drug until the end of accrual

Arm type	Active comparator
Investigational medicinal product name	PLD
Investigational medicinal product code	
Other name	Pegylated Liposomal Doxorubicin
Pharmaceutical forms	Powder for concentrate for solution for infusion
Routes of administration	Intravenous use

**Dosage and administration details:**

50 mg/m<sup>2</sup> i.v. on Day 1 q4wk (four weeks = one treatment cycle), at an initial rate of 1 mg/min through peripheral or central lines. If no infusion reactions were observed, the rate of infusion could be increased to complete the administration of the drug over one hour. Total PLD doses >90 mg and ≤90 mg had to be diluted in 500 and 250 mL of 5% glucose solution for infusion, respectively

Investigational medicinal product name	Topotecan
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Powder for concentrate for solution for infusion
Routes of administration	Intravenous use

**Dosage and administration details:**

i.v. as a 30-min infusion on Days 1-5 q3wk (three weeks = one treatment cycle) at the following doses:

- 1.50 mg/m<sup>2</sup> daily, for patients with calculated CrCL ≥60 mL/min.
- 1.25 mg/m<sup>2</sup> daily, for patients with calculated CrCL between 40 and 59 mL/min.
- 0.75 mg/m<sup>2</sup> daily, for patients with calculated CrCL between 30 and 39 mL/min.

Topotecan was administered through peripheral or central lines, and was diluted in a minimum of 50 mL of 0.9% sodium chloride or 5% glucose solution for infusion. Skipped doses of topotecan were not replaced.

<b>Number of subjects in period 1</b>	Lurbinectedin	Control (PLD or topotecan)
Started	221	221
Completed	0	0
Not completed	221	221
Consent withdrawn by subject	14	16
Physician decision	8	17
Treatment-related AE	10	14
Symptomatic deterioration	13	19
Death	11	3
Other	3	1
Non-treatment-related AE	8	8
Progressive disease	152	135
Not treated	2	8

## Baseline characteristics

### Reporting groups

Reporting group title	Lurbinectedin
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Reporting group description:

3.2 mg/m<sup>2</sup> i.v. as a 1-hour infusion on Day 1 q3wk (three weeks = one treatment cycle) through peripheral or central lines. A minimum total volume of 100 mL, diluted in 5% glucose or 0.9% sodium chloride solution for infusion, had to be used for administration through a central venous catheter; if a peripheral venous catheter was used, the minimum volume was 250 mL

Reporting group title	Control (PLD or topotecan)
-----------------------	----------------------------

Reporting group description:

Patients randomized to the Control arm were assigned to receive PLD if they had previously been treated with topotecan, or to receive topotecan if they had previously been treated with PLD. However, if the number of patients randomized to either PLD or topotecan reached 60% (i.e., 126 patients) of the total number of patients expected in the Control Arm, then the treatment of choice in the Control Arm would be restricted to the less frequent control drug until the end of accrual

Reporting group values	Lurbinectedin	Control (PLD or topotecan)	Total
Number of subjects	221	221	442
Age categorical			
Units: Subjects			
18-49 years	21	35	56
50-64 years	105	106	211
≥65 years	95	80	175
Age continuous			
Units: years			
median	63.0	59.0	
full range (min-max)	25 to 85	28 to 87	-
Gender categorical			
Units: Subjects			
Female	221	221	442
Male	0	0	0
BMI			
BMI, body mass index			
Units: Subjects			
≤20 kg/m <sup>2</sup>	26	37	63
20-25 kg/m <sup>2</sup>	82	84	166
25-30 kg/m <sup>2</sup>	62	51	113
>30 kg/m <sup>2</sup>	50	49	99
Unknown	1	0	1
Race			
Some countries like France did not allow to collect race information by ethical reasons			
Units: Subjects			
American Indian or Alaska Native	0	1	1
Asian	2	3	5
Black or African American	6	2	8
White	192	201	393
Other	2	2	4
Not applicable	19	12	31
ECOG PS			

ECOG PS, Eastern Cooperative Oncology Group performance status			
Units: Subjects			
PS 0	126	123	249
PS 1	87	94	181
PS 2	8	4	12
Primary site			
Units: Subjects			
Ovarian	196	195	391
Fallopian	11	13	24
Peritoneal	14	13	27
Histology type			
Units: Subjects			
Serous/Papillary	181	199	380
Endometrioid	14	6	20
Clear cell	10	12	22
Mucinous	3	1	4
Other	13	3	16
Histologic grade			
Units: Subjects			
Well differentiated	16	15	31
Moderately differentiated	21	24	45
Poorly differentiated/Undifferentiated	154	143	297
Unknown	30	39	69
BRCA status			
Units: Subjects			
BRCA1	10	8	18
BRCA2	4	3	7
Not mutated	64	61	125
Unknown	143	149	292
Intestinal sub-occlusion			
Units: Subjects			
Yes	9	10	19
No	212	211	423
Clinically evident ascites			
Units: Subjects			
Yes	35	39	74
No	186	182	368
Radiological presence of ascites			
Units: Subjects			
Yes	59	71	130
No	162	150	312
Prior radiotherapy			
Units: Subjects			
Yes	6	5	11
No	215	216	431
Prior Cytoreductive surgery			
Units: Subjects			
Yes	198	204	402
No	23	17	40
Other prior surgical procedures			

Units: Subjects			
Yes	86	81	167
No	135	140	275
Weight			
Units: Kg			
median	65.8	63.0	
full range (min-max)	37.0 to 125.0	39.0 to 142.8	-
Height			
Units: cm			
median	161.0	161.0	
full range (min-max)	147 to 177	144 to 183	-
BSA			
BSA, body surface area			
Units: m <sup>2</sup>			
median	1.7	1.7	
full range (min-max)	1.3 to 2.4	1.3 to 2.4	-
BMI			
BMI, body mass index			
Units: kg/m <sup>2</sup>			
median	25.1	24.7	
full range (min-max)	15.0 to 47.9	14.5 to 56.5	-
First diagnosis to randomization			
Units: months			
median	23.4	20.7	
full range (min-max)	7 to 294	4 to 184	-
Sites involved			
Units: number of sites			
median	2.0	2.0	
full range (min-max)	1 to 5	1 to 7	-

### Subject analysis sets

Subject analysis set title	PLD
Subject analysis set type	Sub-group analysis
Subject analysis set description: Patients randomized to the Control arm were assigned to receive PLD	
Subject analysis set title	Topotecan
Subject analysis set type	Sub-group analysis
Subject analysis set description: Patients randomized to the Control arm were assigned to receive topotecan	

Reporting group values	PLD	Topotecan	
Number of subjects	127	94	
Age categorical			
Units: Subjects			
18-49 years	18	17	
50-64 years	61	45	
≥65 years	48	32	
Age continuous			
Units: years			
median	59.0	59.5	

full range (min-max)	28 to 87	31 to 80	
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Gender categorical			
Units: Subjects			
Female	127	94	
Male	0	0	
BMI			
BMI, body mass index			
Units: Subjects			
≤20 kg/m <sup>2</sup>	23	14	
20-25 kg/m <sup>2</sup>	42	42	
25-30 kg/m <sup>2</sup>	35	16	
>30 kg/m <sup>2</sup>	27	22	
Unknown	0	0	
Race			
Some countries like France did not allow to collect race information by ethical reasons			
Units: Subjects			
American Indian or Alaska Native	1	0	
Asian	3	0	
Black or African American	1	1	
White	116	85	
Other	2	0	
Not applicable	4	8	
ECOG PS			
ECOG PS, Eastern Cooperative Oncology Group performance status			
Units: Subjects			
PS 0	77	46	
PS 1	47	47	
PS 2	3	1	
Primary site			
Units: Subjects			
Ovarian	115	80	
Fallopian	6	7	
Peritoneal	6	7	
Histology type			
Units: Subjects			
Serous/Papillary	111	88	
Endometrioid	3	3	
Clear cell	10	2	
Mucinous	1	0	
Other	2	1	
Histologic grade			
Units: Subjects			
Well differentiated	7	8	
Moderately differentiated	12	12	
Poorly differentiated/Undifferentiated	85	58	
Unknown	23	16	
BRCA status			
Units: Subjects			

BRCA1	5	3	
BRCA2	1	2	
Not mutated	28	33	
Unknown	93	56	
Intestinal sub-occlusion			
Units: Subjects			
Yes	5	5	
No	122	89	
Clinically evident ascites			
Units: Subjects			
Yes	25	14	
No	102	80	
Radiological presence of ascites			
Units: Subjects			
Yes	41	30	
No	86	64	
Prior radiotherapy			
Units: Subjects			
Yes	2	3	
No	125	91	
Prior Cytoreductive surgery			
Units: Subjects			
Yes	114	90	
No	13	4	
Other prior surgical procedures			
Units: Subjects			
Yes	50	31	
No	77	63	
Weight			
Units: Kg			
median	63.2	62.5	
full range (min-max)	39.0 to 142.8	40.0 to 114.7	
Height			
Units: cm			
median	161.0	161.5	
full range (min-max)	144 to 183	145 to 175	
BSA			
BSA, body surface area			
Units: m <sup>2</sup>			
median	1.7	1.7	
full range (min-max)	1.3 to 2.4	1.4 to 2.4	
BMI			
BMI, body mass index			
Units: kg/m <sup>2</sup>			
median	24.9	24.2	
full range (min-max)	15.9 to 56.5	14.5 to 43.1	
First diagnosis to randomization			
Units: months			
median	14.9	26.8	
full range (min-max)	4 to 184	4 to 103	
Sites involved			

Units: number of sites			
median	2.0	3.0	
full range (min-max)	1 to 7	1 to 7	

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## End points

### End points reporting groups

Reporting group title	Lurbinectedin
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Reporting group description:

3.2 mg/m<sup>2</sup> i.v. as a 1-hour infusion on Day 1 q3wk (three weeks = one treatment cycle) through peripheral or central lines. A minimum total volume of 100 mL, diluted in 5% glucose or 0.9% sodium chloride solution for infusion, had to be used for administration through a central venous catheter; if a peripheral venous catheter was used, the minimum volume was 250 mL

Reporting group title	Control (PLD or topotecan)
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Reporting group description:

Patients randomized to the Control arm were assigned to receive PLD if they had previously been treated with topotecan, or to receive topotecan if they had previously been treated with PLD. However, if the number of patients randomized to either PLD or topotecan reached 60% (i.e., 126 patients) of the total number of patients expected in the Control Arm, then the treatment of choice in the Control Arm would be restricted to the less frequent control drug until the end of accrual

Subject analysis set title	PLD
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Subject analysis set type	Sub-group analysis
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Subject analysis set description:

Patients randomized to the Control arm were assigned to receive PLD

Subject analysis set title	Topotecan
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Subject analysis set type	Sub-group analysis
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Subject analysis set description:

Patients randomized to the Control arm were assigned to receive topotecan

### Primary: Progression-free Survival by Independent Review Committee

End point title	Progression-free Survival by Independent Review Committee
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End point description:

End point type	Primary
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End point timeframe:

Overall period

End point values	Lurbinectedin	Control (PLD or topotecan)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	221 <sup>[1]</sup>	221 <sup>[2]</sup>		
Units: months				
median (confidence interval 95%)	3.5 (2.1 to 3.7)	3.6 (2.7 to 3.8)		

Notes:

[1] - Events (%): 180 (81.4)

[2] - Events (%): 158 (71.5)

### Statistical analyses

Statistical analysis title	PFS between treatments
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Comparison groups	Lurbinectedin v Control (PLD or topotecan)
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Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.6294
Method	Logrank
Parameter estimate	Hazard ratio (HR)
Point estimate	1.057
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.854
upper limit	1.309

<b>Statistical analysis title</b>	PFS (%) at 6 months
Statistical analysis description:	
PFS (%) at 6 months: Lurbinectedin: 24.3 (18.4-30.7) Control: 27.5 (20.9-34.4)	
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.5032
Method	Normal approximation

<b>Statistical analysis title</b>	PFS (%) at 12 months
Statistical analysis description:	
PFS (%) at 12 months: Lurbinectedin: 8.3 (4.7-13.3) Control: 7.0 (3.3-12.5)	
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.6742
Method	Normal approximation

<b>Secondary: Progression-free Survival by Investigator's Assessment</b>	
End point title	Progression-free Survival by Investigator's Assessment
End point description: PFS, progression-free survival	
End point type	Secondary
End point timeframe: Overall period	

<b>End point values</b>	Lurbinectedin	Control (PLD or topotecan)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	221 <sup>[3]</sup>	221 <sup>[4]</sup>		
Units: months				
median (confidence interval 95%)	3.7 (3.6 to 3.9)	3.7 (3.5 to 4.0)		

Notes:

[3] - Events (%): 194 (87.8)

[4] - Events (%): 179 (81.0)

### Statistical analyses

<b>Statistical analysis title</b>	PFS between treatments
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.7673
Method	Logrank
Parameter estimate	Hazard ratio (HR)
Point estimate	0.987
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.805
upper limit	1.209

<b>Statistical analysis title</b>	PFS (%) at 6 months
Statistical analysis description: PFS (%) at 6 months (95% CI) Lurbinectedin: 29.0 (22.8-35.4) Control: 27.4 (21.3-33.9)	
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.7385
Method	Normal approximation

<b>Statistical analysis title</b>	PFS (%) at 12 months
Statistical analysis description: PFS (%) at 12 months (95% CI) Lurbinectedin: 8.2 (4.8-12.7) Control: 7.5 (4.2-12.2)	

Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.8245
Method	Normal approximation

### Secondary: Overall Survival

End point title	Overall Survival
End point description:	
End point type	Secondary
End point timeframe:	
Overall period	

End point values	Lurbinectedin	Control (PLD or topotecan)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	221 <sup>[5]</sup>	221 <sup>[6]</sup>		
Units: months				
median (confidence interval 95%)	11.4 (9.0 to 14.2)	10.9 (9.3 to 12.5)		

Notes:

[5] - Events (%): 170 (76.9)

[6] - Events (%): 168 (76.0)

### Statistical analyses

<b>Statistical analysis title</b>	OS (%) between treatments
Statistical analysis description:	
OS, Overall survival	
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.8021
Method	Logrank
Parameter estimate	Hazard ratio (HR)
Point estimate	0.956
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.772
upper limit	1.183

<b>Statistical analysis title</b>	OS (%) at 12 months
Statistical analysis description: OS (%) at 12 months (95% CI): Lurbinectedin: 48.2 (41.3-54.8) Control: 45.3 (38.4-52.0)	
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.5515
Method	Normal approximation

<b>Statistical analysis title</b>	OS (%) at 24 months
Statistical analysis description: OS (%) at 24 months (95% CI): Lurbinectedin: 22.3 (16.8-28.2) Control: 22.7 (17.1-28.7)	
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.9253
Method	Normal approximation

### Secondary: Response Rate by Independent Review Committee

End point title	Response Rate by Independent Review Committee
End point description: CR, complete response; ORR, overall response rate; PD, progressive disease; PR, partial response; SD, stable disease	
End point type	Secondary
End point timeframe: Overall period	

<b>End point values</b>	Lurbinectedin	Control (PLD or topotecan)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	221	221		
Units: subjects				
CR	3	3		
PR	29	25		
SD	90	97		
PD	83	72		
Unknown	16	24		

## Statistical analyses

<b>Statistical analysis title</b>	Overall response rate
Statistical analysis description: ORR, n (%) 95% CI Lurbinectedin: 32 (14.5) [10.1-19.8] Control: 28 (12.7) [8.6-17.8]	
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.6772
Method	Fisher exact

## Secondary: Response Rate by Investigator's Assessment

End point title	Response Rate by Investigator's Assessment
End point description: CR, complete response; ORR, overall response rate; PD, progressive disease; PR, partial response; SD, stable disease.	
End point type	Secondary
End point timeframe: Overall period	

<b>End point values</b>	Lurbinectedin	Control (PLD or topotecan)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	221	221		
Units: subjects				
CR	3	2		
PR	32	35		
SD	107	94		
PD	63	68		
Unknown	16	22		

## Statistical analyses

<b>Statistical analysis title</b>	Overall response rate
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Statistical analysis description:

ORR, n (%) 95% CI

Lurbinectedin: 35 (15.8) [11.3-21.3]  
 Control: 37 (16.7) [12.1-22.3]

Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	442
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.8976
Method	Fisher exact

### Secondary: Duration of Response by Independent Review Committee

End point title	Duration of Response by Independent Review Committee
End point description:	
End point type	Secondary
End point timeframe:	
Overall period	

End point values	Lurbinectedin	Control (PLD or topotecan)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	32	28		
Units: months				
median (confidence interval 95%)	4.0 (1.9 to 5.7)	3.7 (3.6 to 7.2)		

### Statistical analyses

<b>Statistical analysis title</b>	Duration of response between treatments
Comparison groups	Control (PLD or topotecan) v Lurbinectedin
Number of subjects included in analysis	60
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.2631
Method	Logrank
Parameter estimate	Hazard ratio (HR)
Point estimate	1.406
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.769
upper limit	2.569

### Secondary: Duration of Response by Investigator's Assessment

End point title	Duration of Response by Investigator's Assessment
End point description:	
End point type	Secondary
End point timeframe:	
Overall period	

<b>End point values</b>	Lurbinectedin	Control (PLD or topotecan)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	35	37		
Units: months				
median (confidence interval 95%)	4.3 (3.6 to 5.8)	3.7 (3.2 to 5.6)		

### Statistical analyses

<b>Statistical analysis title</b>	Duration of response between treatments
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	72
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.8276
Method	Logrank
Parameter estimate	Hazard ratio (HR)
Point estimate	1.056
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.64
upper limit	1.743

### Secondary: Best Response according to Tumor Marker Evaluation (CA-125)

End point title	Best Response according to Tumor Marker Evaluation (CA-125)
End point description:	
CR, complete response; ORR, overall response rate; PD, progressive disease; PR, partial response; SD, stable disease	
End point type	Secondary
End point timeframe:	
Overall period	

<b>End point values</b>	Lurbinectedin	Control (PLD or topotecan)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	173	165		
Units: subjects				
CR	13	3		
PR	33	29		
SD	95	94		
PD	17	16		
Unknown	15	23		

## Statistical analyses

<b>Statistical analysis title</b>	ORR by CA-125
Statistical analysis description: ORR by CA-125, n (%) 95% CI Lurbinectedin: 46 (26.6) [20.2-33.8] Control: 32 (19.4) [13.7-26.3]	
Comparison groups	Lurbinectedin v Control (PLD or topotecan)
Number of subjects included in analysis	338
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.1231
Method	Fisher exact

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Overall period

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	20.0
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### Reporting groups

Reporting group title	Lurbinectedin
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Reporting group description:

3.2 mg/m<sup>2</sup> i.v. as a 1-hour infusion on Day 1 q3wk (three weeks = one treatment cycle) through peripheral or central lines. A minimum total volume of 100 mL, diluted in 5% glucose or 0.9% sodium chloride solution for infusion, had to be used for administration through a central venous catheter; if a peripheral venous catheter was used, the minimum volume was 250 mL

Reporting group title	Control (PLD or topotecan)
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Reporting group description:

Patients randomized to the Control arm were assigned to receive PLD if they had previously been treated with topotecan, or to receive topotecan if they had previously been treated with PLD. However, if the number of patients randomized to either PLD or topotecan reached 60% (i.e., 126 patients) of the total number of patients expected in the Control Arm, then the treatment of choice in the Control Arm would be restricted to the less frequent control drug until the end of accrual

<b>Serious adverse events</b>	Lurbinectedin	Control (PLD or topotecan)	
Total subjects affected by serious adverse events			
subjects affected / exposed	91 / 219 (41.55%)	85 / 213 (39.91%)	
number of deaths (all causes)	170	171	
number of deaths resulting from adverse events	6	6	
Vascular disorders			
Embolism			
subjects affected / exposed	2 / 219 (0.91%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	1 / 2	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 1	
Phlebitis			
subjects affected / exposed	1 / 219 (0.46%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	1 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Venous thrombosis			

subjects affected / exposed	2 / 219 (0.91%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	2 / 2	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>General disorders and administration site conditions</b>			
<b>Fatigue</b>			
subjects affected / exposed	2 / 219 (0.91%)	2 / 213 (0.94%)	
occurrences causally related to treatment / all	1 / 3	2 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>General physical health deterioration</b>			
subjects affected / exposed	1 / 219 (0.46%)	4 / 213 (1.88%)	
occurrences causally related to treatment / all	0 / 1	2 / 5	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Influenza like illness</b>			
subjects affected / exposed	1 / 219 (0.46%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Pyrexia</b>			
subjects affected / exposed	3 / 219 (1.37%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	1 / 3	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Vessel puncture site haematoma</b>			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Chest pain</b>			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Malaise</b>			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	2 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Mucosal inflammation</b>			

subjects affected / exposed	0 / 219 (0.00%)	3 / 213 (1.41%)	
occurrences causally related to treatment / all	0 / 0	4 / 4	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Pain</b>			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Immune system disorders</b>			
<b>Hypersensitivity</b>			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Respiratory, thoracic and mediastinal disorders</b>			
<b>Dyspnoea</b>			
subjects affected / exposed	2 / 219 (0.91%)	4 / 213 (1.88%)	
occurrences causally related to treatment / all	0 / 2	0 / 5	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Lung disorder</b>			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Pleural effusion</b>			
subjects affected / exposed	3 / 219 (1.37%)	3 / 213 (1.41%)	
occurrences causally related to treatment / all	0 / 3	0 / 5	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Pulmonary embolism</b>			
subjects affected / exposed	3 / 219 (1.37%)	3 / 213 (1.41%)	
occurrences causally related to treatment / all	0 / 3	0 / 3	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Pulmonary oedema</b>			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Pneumonitis			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pneumothorax			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Investigations			
Alanine aminotransferase increased			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Blood creatinine increased			
subjects affected / exposed	3 / 219 (1.37%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	2 / 3	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gamma-glutamyltransferase increased			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Transaminases increased			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Injury, poisoning and procedural complications			
Subdural haematoma			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Toxicity to various agents			

subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Femur fracture			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastrointestinal stoma complication			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Transfusion reaction			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cardiac disorders			
Cardiac failure			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cardiorespiratory arrest			
subjects affected / exposed	3 / 219 (1.37%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	1 / 3	0 / 0	
deaths causally related to treatment / all	1 / 3	0 / 0	
Coronary artery disease			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 3	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Myocardial infarction			
subjects affected / exposed	1 / 219 (0.46%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	1 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 1	
Atrial fibrillation			

subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cardiac tamponade			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nervous system disorders			
Cerebrovascular accident			
subjects affected / exposed	2 / 219 (0.91%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 2	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hypoglycaemic coma			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Paresis			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Toxic encephalopathy			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Neuropathy peripheral			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	8 / 219 (3.65%)	12 / 213 (5.63%)	
occurrences causally related to treatment / all	11 / 14	16 / 18	
deaths causally related to treatment / all	0 / 0	0 / 0	
Febrile neutropenia			

subjects affected / exposed	14 / 219 (6.39%)	12 / 213 (5.63%)	
occurrences causally related to treatment / all	12 / 14	13 / 13	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Leucopenia</b>			
subjects affected / exposed	3 / 219 (1.37%)	3 / 213 (1.41%)	
occurrences causally related to treatment / all	3 / 3	4 / 4	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Neutropenia</b>			
subjects affected / exposed	11 / 219 (5.02%)	13 / 213 (6.10%)	
occurrences causally related to treatment / all	14 / 14	13 / 14	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Thrombocytopenia</b>			
subjects affected / exposed	9 / 219 (4.11%)	11 / 213 (5.16%)	
occurrences causally related to treatment / all	9 / 9	20 / 20	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Leukocytosis</b>			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Gastrointestinal disorders</b>			
<b>Abdominal distension</b>			
subjects affected / exposed	2 / 219 (0.91%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Abdominal pain</b>			
subjects affected / exposed	6 / 219 (2.74%)	6 / 213 (2.82%)	
occurrences causally related to treatment / all	0 / 8	2 / 6	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Ascites</b>			
subjects affected / exposed	4 / 219 (1.83%)	7 / 213 (3.29%)	
occurrences causally related to treatment / all	0 / 6	0 / 11	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Constipation</b>			

subjects affected / exposed	2 / 219 (0.91%)	0 / 213 (0.00%)
occurrences causally related to treatment / all	0 / 2	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0
Diarrhoea		
subjects affected / exposed	2 / 219 (0.91%)	2 / 213 (0.94%)
occurrences causally related to treatment / all	1 / 2	2 / 2
deaths causally related to treatment / all	0 / 0	0 / 0
Intestinal obstruction		
subjects affected / exposed	24 / 219 (10.96%)	21 / 213 (9.86%)
occurrences causally related to treatment / all	1 / 32	0 / 28
deaths causally related to treatment / all	0 / 0	0 / 0
Intestinal perforation		
subjects affected / exposed	1 / 219 (0.46%)	1 / 213 (0.47%)
occurrences causally related to treatment / all	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 1	0 / 1
Nausea		
subjects affected / exposed	7 / 219 (3.20%)	4 / 213 (1.88%)
occurrences causally related to treatment / all	5 / 8	4 / 5
deaths causally related to treatment / all	0 / 0	0 / 0
Oesophageal stenosis		
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0
Proctalgia		
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0
Vomiting		
subjects affected / exposed	10 / 219 (4.57%)	4 / 213 (1.88%)
occurrences causally related to treatment / all	8 / 10	2 / 5
deaths causally related to treatment / all	0 / 0	0 / 0
Gastrooesophageal reflux disease		

subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Neutropenic colitis</b>			
subjects affected / exposed	0 / 219 (0.00%)	3 / 213 (1.41%)	
occurrences causally related to treatment / all	0 / 0	3 / 3	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Oesophageal ulcer</b>			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Oesophagitis</b>			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Hepatobiliary disorders</b>			
<b>Bile duct obstruction</b>			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Cholangitis</b>			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Cholecystitis</b>			
subjects affected / exposed	2 / 219 (0.91%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Portal vein thrombosis</b>			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Renal and urinary disorders</b>			

Haematuria			
subjects affected / exposed	1 / 219 (0.46%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Acute kidney injury			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 1	
Hydronephrosis			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Musculoskeletal and connective tissue disorders			
Flank pain			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Infections and infestations			
Abdominal wall abscess			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Atypical pneumonia			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	1 / 1	0 / 0	
Bacteraemia			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastroenteritis			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Herpes virus infection			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Neutropenic sepsis			
subjects affected / exposed	2 / 219 (0.91%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	1 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pneumonia			
subjects affected / exposed	2 / 219 (0.91%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Sepsis			
subjects affected / exposed	5 / 219 (2.28%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	3 / 5	1 / 1	
deaths causally related to treatment / all	1 / 1	1 / 1	
Septic shock			
subjects affected / exposed	1 / 219 (0.46%)	2 / 213 (0.94%)	
occurrences causally related to treatment / all	0 / 1	2 / 2	
deaths causally related to treatment / all	0 / 0	1 / 1	
Skin infection			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 3	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Urinary tract infection			
subjects affected / exposed	4 / 219 (1.83%)	3 / 213 (1.41%)	
occurrences causally related to treatment / all	0 / 4	0 / 3	
deaths causally related to treatment / all	0 / 0	0 / 0	
Infection			
subjects affected / exposed	0 / 219 (0.00%)	2 / 213 (0.94%)	
occurrences causally related to treatment / all	0 / 0	2 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Influenza			

subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Peritonitis			
subjects affected / exposed	0 / 219 (0.00%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	0 / 0	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Metabolism and nutrition disorders			
Dehydration			
subjects affected / exposed	4 / 219 (1.83%)	2 / 213 (0.94%)	
occurrences causally related to treatment / all	1 / 4	2 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hyperglycemia			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hypoalbuminemia			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hypokalaemia			
subjects affected / exposed	1 / 219 (0.46%)	2 / 213 (0.94%)	
occurrences causally related to treatment / all	1 / 1	1 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hyponatraemia			
subjects affected / exposed	2 / 219 (0.91%)	1 / 213 (0.47%)	
occurrences causally related to treatment / all	1 / 3	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Malnutrition			
subjects affected / exposed	1 / 219 (0.46%)	0 / 213 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

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

<b>Non-serious adverse events</b>	Lurbinectedin	Control (PLD or topotecan)	
Total subjects affected by non-serious adverse events			
subjects affected / exposed	212 / 219 (96.80%)	211 / 213 (99.06%)	
Investigations			
Weight decreased			
subjects affected / exposed	10 / 219 (4.57%)	14 / 213 (6.57%)	
occurrences (all)	14	16	
Vascular disorders			
Hypertension			
subjects affected / exposed	12 / 219 (5.48%)	4 / 213 (1.88%)	
occurrences (all)	22	9	
Nervous system disorders			
Headache			
subjects affected / exposed	26 / 219 (11.87%)	9 / 213 (4.23%)	
occurrences (all)	36	10	
Neuropathy peripheral			
subjects affected / exposed	19 / 219 (8.68%)	15 / 213 (7.04%)	
occurrences (all)	32	20	
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	57 / 219 (26.03%)	77 / 213 (36.15%)	
occurrences (all)	154	196	
Leucopenia			
subjects affected / exposed	23 / 219 (10.50%)	21 / 213 (9.86%)	
occurrences (all)	39	38	
Neutropenia			
subjects affected / exposed	73 / 219 (33.33%)	89 / 213 (41.78%)	
occurrences (all)	167	211	
Thrombocytopenia			
subjects affected / exposed	20 / 219 (9.13%)	39 / 213 (18.31%)	
occurrences (all)	46	77	
General disorders and administration site conditions			
Fatigue			

subjects affected / exposed occurrences (all)	133 / 219 (60.73%) 327	113 / 213 (53.05%) 205
Mucosal inflammation subjects affected / exposed occurrences (all)	22 / 219 (10.05%) 26	68 / 213 (31.92%) 145
Oedema subjects affected / exposed occurrences (all)	25 / 219 (11.42%) 32	13 / 213 (6.10%) 15
Pyrexia subjects affected / exposed occurrences (all)	25 / 219 (11.42%) 29	33 / 213 (15.49%) 40
Gastrointestinal disorders		
Abdominal distension subjects affected / exposed occurrences (all)	12 / 219 (5.48%) 16	10 / 213 (4.69%) 12
Abdominal pain subjects affected / exposed occurrences (all)	74 / 219 (33.79%) 145	52 / 213 (24.41%) 73
Ascites subjects affected / exposed occurrences (all)	14 / 219 (6.39%) 15	21 / 213 (9.86%) 43
Constipation subjects affected / exposed occurrences (all)	72 / 219 (32.88%) 118	61 / 213 (28.64%) 84
Diarrhoea subjects affected / exposed occurrences (all)	44 / 219 (20.09%) 70	35 / 213 (16.43%) 58
Nausea subjects affected / exposed occurrences (all)	156 / 219 (71.23%) 390	92 / 213 (43.19%) 169
Dyspepsia subjects affected / exposed occurrences (all)	14 / 219 (6.39%) 16	15 / 213 (7.04%) 16
Vomiting subjects affected / exposed occurrences (all)	86 / 219 (39.27%) 195	58 / 213 (27.23%) 88

Respiratory, thoracic and mediastinal disorders			
Cough			
subjects affected / exposed	17 / 219 (7.76%)	26 / 213 (12.21%)	
occurrences (all)	19	33	
Dyspnoea			
subjects affected / exposed	29 / 219 (13.24%)	23 / 213 (10.80%)	
occurrences (all)	37	34	
Skin and subcutaneous tissue disorders			
Alopecia			
subjects affected / exposed	5 / 219 (2.28%)	30 / 213 (14.08%)	
occurrences (all)	5	33	
Palmar-plantar erythrodysesthesia syndrome			
subjects affected / exposed	3 / 219 (1.37%)	51 / 213 (23.94%)	
occurrences (all)	3	95	
Rash			
subjects affected / exposed	8 / 219 (3.65%)	14 / 213 (6.57%)	
occurrences (all)	9	25	
Psychiatric disorders			
Sleep disorder			
subjects affected / exposed	22 / 219 (10.05%)	10 / 213 (4.69%)	
occurrences (all)	23	10	
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	15 / 219 (6.85%)	5 / 213 (2.35%)	
occurrences (all)	20	7	
Back pain			
subjects affected / exposed	13 / 219 (5.94%)	19 / 213 (8.92%)	
occurrences (all)	17	22	
Infections and infestations			
Upper respiratory tract infection			
subjects affected / exposed	11 / 219 (5.02%)	20 / 213 (9.39%)	
occurrences (all)	14	21	
Urinary tract infection			
subjects affected / exposed	21 / 219 (9.59%)	15 / 213 (7.04%)	
occurrences (all)	25	18	
Metabolism and nutrition disorders			

Decreased appetite subjects affected / exposed	51 / 219 (23.29%)	47 / 213 (22.07%)	
occurrences (all)	80	69	
Hypokalaemia subjects affected / exposed	15 / 219 (6.85%)	15 / 213 (7.04%)	
occurrences (all)	26	28	

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
06 November 2015	This amendment resulted in a local version (v.1.1) of the study protocol that was only implemented in France and included the following changes: <ul style="list-style-type: none"><li>• Following a request by French Health Authorities, patients with AP levels between 2.5 and 5 × ULN were not allowed to be included into the study.</li><li>• As a result of the merger between Zeltia, S.A and Pharma Mar, S.A., Sociedad Unipersonal, the Sponsor shall now be referred to as Pharma Mar, S.A, without further reference to "Sociedad Unipersonal".</li></ul>

Notes:

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### 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.

None reported
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Notes: