





## Clinical Trial Results Website

Primary Completion Date: April 2018 (Actual)

Study Completion Date: April 2018 (Actual)

### **Reason for Termination (If applicable)**

Based upon Novartis business decisions, the expansion/Phase II was not opened.

### **Study Design/Methodology**

This was an open-label, multi-center Phase Ib/II study. The Phase Ib dose escalation was conducted for the two triple combinations arms (Arm 1 and Arm 2) and dose confirmation for the two double combination arms (Arm 3 and Arm 3A).

The Phase II part of the study was planned but not conducted based on the emergence of higher than expected adverse events in the triple combinations and as a result, the expansion/Phase II was not opened.

### **Centers**

11 centers in 8 countries: Spain(1), France(1), Italy(2), Singapore(1), Taiwan(1), United States(3), Korea, Republic of(1), United Kingdom(1)

### **Objectives:**

Primary Objectives for Phase Ib:

To estimate the Maximum Tolerated Dose (MTD) and/or Recommended Phase II Dose (RP2D) and schedule of the following two combinations in patients with HR-positive/HER2-negative advanced BC.

- LEE011 + BKM120 + fulvestrant (Arm 1)
- LEE011 + BYL719 + fulvestrant (Arm 2)

In addition, to confirm the safety of the doublet arms (Arms 3 and 3A):

- LEE011 (3 weeks on, 1 week off) + fulvestrant (Arm 3)
- LEE011 (continuous daily dosing) + fulvestrant (Arm 3A)

Secondary Objectives for Phase Ib:

- To characterize the safety and tolerability of LEE011 + BKM120 + fulvestrant, LEE011 + BYL719 + fulvestrant and LEE011 (3 weeks on, 1 week off, or continuous daily dosing) + fulvestrant.
- To characterize the pharmacokinetic (PK) properties of LEE011, BKM120, BYL719 within the combinations studied and to compare across treatment arms; as well as to evaluate trough levels of fulvestrant in each combination and any other clinically significant metabolites that may be identified.
- To assess preliminary clinical anti-tumor activity of LEE011 + BKM120 + fulvestrant, LEE011 + BYL719 + fulvestrant, LEE011 (3 weeks on, 1 week off, or continuous daily dosing) +fulvestrant.

### **Test Product (s), Dose(s), and Mode(s) of Administration**

In Arm1, Arm 2, Arm 3, and Arm 3A “investigational or study drug” refers to Novartis study drugs LEE011(ribociclib), BKM120 and BYL719, which were packaged and supplied by Novartis Drug Supply Management.

- Ribociclib (LEE011) was supplied as 50 mg and 200 mg capsules for oral administration.
- BKM120 was supplied as 10 mg and 50 mg hard gelatin capsules for oral administration.
- BYL719 was supplied as 50 mg and 200 mg tablets for oral administration. All oral medications were packaged in bottles.
- Fulvestrant was supplied through BAP Pharma.

A listing of patients receiving each batch of test material was provided in Appendix 16.1.6.

### **Statistical Methods**

- The primary variable was the incidence of DLTs in Cycle 1. An adaptive Bayesian Logistic Regression Model (BLRM) guided by the escalation with overdose control (EWOC) principle was used during the dose escalation phase to guide the dose recommendation for next cohorts, including the MTD and/or RP2D, using the dose-determining set.
- Efficacy analyses included best overall response, overall response rate (ORR) and progression free survival (PFS). The best percentage change from baseline in sum of longest diameters (SLD) in target lesions together with best overall response was presented using waterfall plot. These endpoints were analyzed by treatment group using the FAS
- Analyses of safety data were done by treatment group using the safety set. Summary tables of treatment-emergent AE, including type of event and relation to study treatment, SAE, results of laboratory tests, .ECG and Vital signs were presented. Information reported prior- and/or post-treatment period was included in listings, as applicable.
- Pharmacokinetic analysis set (PAS) was used for PK analysis. Descriptive statistics were presented for primary and secondary PK parameters by analyte, treatment group, and study day.

### **Study Population: Key Inclusion/Exclusion Criteria**

**Inclusion Criteria:**

- Postmenopausal, Hormone receptor positive (HR+), HER2 negative breast cancer
- Unlimited number of lines of endocrine therapy and up to two lines of cytotoxic chemotherapy in the metastatic setting (Phase Ib)
- Unlimited number of lines of endocrine therapy and one line of cytotoxic chemotherapy in the metastatic setting (Phase II)

**Exclusion Criteria:**

- HER2-overexpression in the patient's tumor tissue
- Inadequate bone marrow function or evidence of end-organ damage
- Severe or uncontrolled medical issues
- Diabetes mellitus

Other protocol-defined inclusion/exclusion criteria may apply

**Participant Flow Table**
**Overall Study**

Arm/Group Description	LEE011 600 mg + fulvestrant	LEE011 400mg cont. + fulvestrant	LEE011 + BYL719 + fulvestrant	LEE011 + BKM120 + fulvestrant	Total
LEE011 - 28 day cycles (3 weeks on, 1 week off), fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (3 weeks on, 1 week off), fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BKM120 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	70
<b>Started</b>	13	15	18	24	

<b>Completed</b>	0	2	1	3	6
<b>Not Completed</b>	13	13	17	21	64
Withdrawal by Subject	0	0	1	2	3
progressive disease	11	9	12	17	49
Physician Decision	1	2	0	0	3
Adverse Event	1	2	4	2	9

**Baseline Characteristics**

	<b>LEE011 600 mg + fulvestrant</b>	<b>LEE011 400mg cont. + fulvestrant</b>	<b>LEE011 + BYL719 + fulvestrant</b>	<b>LEE011 + BKM120 + fulvestrant</b>	<b>Total</b>
<b>Arm/Group Description</b>	LEE011 - 28 day cycles (3 weeks on, 1 week off), fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (continuous daily dosing - dose escalating) fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	

<b>Number of Participants</b> [units: participants]	13	15	18	24	70
<b>Age Continuous</b> (units: years) Mean ± Standard Deviation	59.5±8.02	57.5±8.81	60.3±11.69	56.5±10.21	58.3±9.90
<b>Race/Ethnicity, Customized<sup>[1]</sup></b> (units: participants) Count of Participants (Not Applicable)					
Asian	2	3	5	10	20
Black or African	0	1	0	0	1
Unknown	2	0	0	3	5
White	9	11	13	11	44
<b>Race/Ethnicity, Customized<sup>[2]</sup></b> (units: participants) Count of Participants (Not Applicable)					
not Hispanic or Latino	6	10	16	14	46
Not reported	7	3	2	8	20
unknown	0	2	0	2	4
<b>Sex: Female, Male</b> (units: participants) Count of Participants (Not Applicable)					
Female	13	15	18	24	70
Male	0	0	0	0	0

[1] Race

[2] Ethnicity

## Summary of Efficacy

**Primary Outcome Result(s)**
**Incidence of Dose limiting toxicities (DLTs) - Phase Ib only**

(Time Frame: 28 days)

	LEE011 600 mg + fulvestrant	LEE011 400mg cont. + fulvestrant	LEE011 + BYL719 + fulvestrant	LEE011 + BKM120 + fulvestrant
<b>Arm/Group Description</b>	LEE011 - 28 day cycles (3 weeks on, 1 week off), fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (continuous daily dosing - dose escalating) fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.
<b>Number of Participants</b>				
Analyzed [units: participants]	13	15	15	21
<b>Incidence of Dose limiting toxicities (DLTs) - Phase Ib only</b> (units: participants)	1	1	5	5
Count of Participants (Not Applicable)				

### Secondary Outcome Result(s)

#### Plasma concentration-time profiles of LEE011, BKM120, BYL719

(Time Frame: Day 21)

	LEE011 400mg+BKM12 0 30mg+Fulvestrant	LEE011 400mg+BKM12 0 40mg+Fulvestrant	LEE011 600mg+BKM12 0 30mg+Fulvestrant	LEE011 + BYL719 200mg+ fulvestrant	LEE011 400mg+BYL719 150mg+Fulvestrant	LEE011 400mg+BYL719 200mg+Fulvestrant	LEE011 600 mg + fulvestrant	LEE011 400mg cont. + fulvestrant	LEE011 - 28 day cycles (continuous daily dosing - dose escalating) fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.
Number of Participants	10	6	8	3	6	9	13	15	
Analyzed [units: participants]									

#### Plasma concentration-time profiles of LEE011, BKM120, BYL719

(units: ng/mL)

Geometric Mean (Geometric Coefficient of Variation)

LEE011	980 (40.8%)	1010 (67.5%)	2210 (36.0%)	284 (42.7%)	622 (33.7%)	960 (25.4%)	1840 (51.1 %)	1110 (50.9 %)
LEQ803 (LEE011 metabolite)	157 (46.3%)	95 (95.3%)	180 (3.5%)	47.1 (84.5%)	106 (18.9%)	107 (71.2%)	168 (66.1 %)	105 (40.1 %)
BYL719	0 (0%)	0 (0%)	0 (0%)	1860 (14.5%)	1730 (13.7%)	2130 (36.1%)	0 (0%)	0 (0%)
BKM120	769 (64.9%)	771 (60.0%)	482 (56.0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

**Overall Response Rate (ORR)**

(Time Frame: 36 months)

	LEE011 400mg cont. + fulvestrant	LEE011 600 mg + fulvestrant	LEE011 + BYL719 + fulvestrant	LEE011 + BKM120 + fulvestrant
<b>Arm/Group Description</b>	LEE011 - 28 day cycles (continuous daily dosing - dose escalating) fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (3 weeks on, 1 week off), fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.
<b>Number of Participants Analyzed [units: participants]</b>	15	13	18	24
<b>Overall Response Rate (ORR)</b> (units: participants)				



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Count of Participants (Not Applicable)

2	3	3	6
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### Progression Free Survival (PFS) (phase I only)

(Time Frame: 24 months)

	LEE011 600 mg + fulvestrant	LEE011 400mg cont. + fulvestrant	LEE011 + BYL719 + fulvestrant	LEE011 + BKM120 + fulvestrant
Arm/Group Description	LEE011 - 28 day cycles (3 weeks on, 1 week off), fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (continuous daily dosing - dose escalating) fulvestrant - 500 mg i.m. given on Day 1 and Day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.	LEE011 - 28 day cycles (21 days followed by a 7 day break - dose escalating) BYL719 - daily (dose escalating) fulvestrant - i.m. - 500 mg given on day 1 and day 15 of Cycle 1, then on Day 1 of each subsequent cycle.

Number of Participants Analyzed [units: participants]	13	15	18	24
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### Progression Free Survival (PFS) (phase I only)

(units: participants)

Count of Participants (Not Applicable)

11	9	12	17
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## Summary of Safety

### Safety Results

#### All-Cause Mortality

	LEE011 600mg+ Fulvestr ant N = 13	LEE011 400mg (cont.)+ @Fulves rant N = 15	LEE011 200mg+ @BYL71 9	LEE011 400mg+ @BYL71 9	LEE011 400mg+ @BYL71 9	LEE011 400mg+ @BKM1 20	LEE011 400mg+ @BKM1 20	LEE011 600mg+ @BKM1 20	All subjects@( triplets)@ LEE + BYL + Fulvestran t N = 18	All subjects@( triplets)@ LEE + BKM + Fulvestran t N = 24	All@ subje cts N = 70
Arm/ Grou p Desc riptio n	LEE011 600mg+ Fulvestr ant N = 13	LEE011 400mg (cont.)+ @Fulvest rant N = 15	LEE011 200mg+ @BYL71 9	LEE011 400mg+ @BYL71 9	LEE011 400mg+ @BYL71 9	LEE011 400mg+ @BKM1 20	LEE011 400mg+ @BKM1 20	LEE011 600mg+ @BKM1 20	All subjects@( triplets)@ LEE + BYL + Fulvestran t N = 18	All subjects@( triplets)@ LEE + BKM + Fulvestran t N = 24	All@ subje cts N = 70
<b>Total parti cipa nts affec ted</b>	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

## Serious Adverse Events by System Organ Class

Time Frame	up to 24 months
Source Vocabulary for Table Default	MedDRA (21.0)
Assessment Type for Table Default	Systematic Assessment

Arm/Group Description	LEE011 600mg+ Fulvestrant N = 13	LEE011 400mg (cont.)+ @Fulvestrant N = 15	LEE011 200mg+ @BYL71 N = 3	LEE011 400mg+ @BYL71 N = 9	LEE011 400mg+ @BYL71 N = 9	LEE011 400mg+ @BKM1 N = 20	LEE011 400mg+ @BKM1 N = 20	LEE011 600mg+ @BKM1 N = 20	All subjects@ (triplets)@ LEE + BYL + Fulvestrant N = 18	All subjects@ (triplets)@ LEE + BKM + Fulvestrant N = 24	All subjects@ (triplets)@ LEE + BYL + Fulvestrant N = 70
	LEE011 600mg+ Fulvestrant N = 13	LEE011 400mg (cont.)+ @Fulvestrant N = 15	LEE011 200mg+ @BYL71 N = 3	LEE011 400mg+ @BYL71 N = 9	LEE011 400mg+ @BKM1 N = 20	LEE011 400mg+ @BKM1 N = 20	LEE011 600mg+ @BKM1 N = 20	All subjects@ (doublets)@ LEE+ Fulvestrant N = 28	All subjects@ (triplets)@ LEE + BYL + Fulvestrant N = 18	All subjects@ (triplets)@ LEE + BKM + Fulvestrant N = 24	All subjects@ (triplets)@ LEE + BYL + Fulvestrant N = 70
<b>Total participants affected</b>	8 (61.54 %)	3 (20.00 %)	0 (0.00%)	3 (50.00 %)	3 (33.33 %)	3 (30.00 %)	2 (33.33 %)	4 (50.00 %)	11 (39.29%)	6 (33.33%)	9 (37.50%)
<b>Blood and lymphatic system disorders</b>											
Leukopenia	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)

Neutropenia	2 (15.38 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	3 (10.71%)	0 (0.00%)	1 (4.17%)	4 (5.71%)
<b>Cardiac disorders</b>												
Atrial fibrillation	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
<b>Gastrointestinal disorders</b>												
Nausea	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Small intestinal obstruction	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Vomiting	2 (15.38 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	1 (4.17%)	3 (4.29%)
<b>General disorders and administration site conditions</b>												
Fatigue	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Non-cardiac	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)

chest pain												
Pyrex ia	1 (7.69 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00% )	0 (0.00%)	2 (25.00 %)	1 (3.57%)	0 (0.00%)	2 (8.33%)	3 (4.29%)
Hepato biliary disorders												
Drug-induced liver injury	0 (0.00 %)	0 (0.00% )	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Hepatic function abnormal												
Hepatic function abnormal	1 (7.69 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00% )	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Infections and infestations												
Bronchitis	1 (7.69 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00% )	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Pneumonia	0 (0.00 %)	1 (6.67% )	0 (0.00%)	0 (0.00%)	1 (11.11 %)	1 (10.00 %)	0 (0.00% )	0 (0.00%)	1 (3.57%)	1 (5.56%)	1 (4.17%)	3 (4.29%)
Pyelonephritis acute	0 (0.00 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00% )	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Sepsis	0 (0.00 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Urinary tract	0 (0.00 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (8.33%)	2 (2.86%)

infecti on												
Varic ella	0 (0.00 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.4 3%)
Injury, poisoni ng and proced ural compli cations												
Overd ose	2 (15.38 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00% )	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	0 (0.00%)	2 (2.8 6%)
Investi gations												
Alani ne amino transf erase increa sed	0 (0.00 %)	0 (0.00% )	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.4 3%)
Aspar tate amino transf erase increa sed	0 (0.00 %)	0 (0.00% )	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (10.00 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	1 (5.56%)	1 (4.17%)	2 (2.8 6%)
Muscul oskelet al and connec tive tissue disorde rs												

Musculoskeletal pain	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
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Pain in extremity	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
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**Neoplasms**

benign,  
malignant and  
unspecified  
(including  
cysts and  
polyps)

Metastases to central nervous system	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
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Tumor pain	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
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**Nervous system disorders**

Sync ope	2 (15.38 %)	0 (0.00% )	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00% )	0 (0.00%)	0 (0.00% )	2 (7.14%)	1 (5.56%)	0 (0.00%)	3 (4.29%)
<b>Psychiatric disorders</b>												
Deliri um	1 (7.69 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00% )	0 (0.00%)	0 (0.00% )	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Mental status changes	0 (0.00 %)	1 (6.67% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00% )	0 (0.00%)	0 (0.00% )	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
<b>Renal and urinary disorders</b>												
Acute kidney injury	0 (0.00 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00% )	1 (16.67 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<b>Respiratory, thoracic and mediastinal disorders</b>												
Dyspnoea	1 (7.69 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00% )	0 (0.00%)	0 (0.00% )	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Interstitial lung disease	0 (0.00 %)	0 (0.00% )	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00% )	0 (0.00%)	0 (0.00% )	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)

**Clinical Trial Results Website**

Pleural effusion	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Pulmonary embolism	1 (7.69%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
<b>Skin and subcutaneous tissue disorders</b>												
Ecze ma	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Rash maculo-papular	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)

**Other Adverse Events by System Organ Class**

Time Frame	up to 24 months
Source Vocabulary for Table Default	MedDRA (21.0)
Assessment Type for Table Default	Systematic Assessment
Frequent Event Reporting Threshold	5%

LEE011 600mg+	LEE011 400mg	LEE011 200mg+	LEE011 400mg+	LEE011 400mg+	LEE011 400mg+	LEE011 400mg+	LEE011 600mg+	All subjects@()	All subjects@()	All subjects@()	All@ subje
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	Fulvestrant N = 13	(cont.)+ @Fulvestrant N = 15	@BYL719 200mg+ @Fulvestrant N = 3	@BYL719 150mg+ @Fulvestrant N = 6	@BYL719 200mg+ @Fulvestrant N = 9	@BKM120 30mg+ @Fulvestrant N = 10	@BKM120 40mg+ @Fulvestrant N = 6	@BKM120 30mg+ @Fulvestrant N = 8	doublets)@ LEE+ Fulvestrant N = 28	(triplets)@ LEE + BYL + Fulvestrant N = 18	(triplets)@ LEE + BKM + Fulvestrant N = 24	cts N = 70
<b>Arm/Group Description</b>	LEE011 600mg+ Fulvestrant	LEE011 400mg (cont.)+ @Fulvestrant	LEE011 200mg+ @BYL719	LEE011 400mg+ @BYL719	LEE011 400mg+ @BYL719	LEE011 200mg+ @BKM120	LEE011 400mg+ @BKM120	LEE011 30mg+ @Fulvestrant	All subjects@(doublets)@LEE+ Fulvestrant	All subjects@(triplets)@LEE + BYL + Fulvestrant	All subjects@(triplets)@LEE + BKM + Fulvestrant	All subjects
<b>Total participants affected</b>	13 (100.00%)	15 (100.00%)	3 (100.00%)	6 (100.00%)	9 (100.00%)	10 (100.00%)	6 (100.00%)	8 (100.00%)	28 (100.00%)	18 (100.00%)	24 (100.00%)	70 (100.00%)
<b>Blood and lymphatic system disorders</b>												
Anaemia	6 (46.15%)	2 (13.33%)	0 (0.00%)	1 (16.67%)	2 (22.22%)	0 (0.00%)	1 (16.67%)	2 (25.00%)	8 (28.57%)	3 (16.67%)	3 (12.50%)	14 (20.00%)
Anaemia macrocytic	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Increased tendency to bruise	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Leukopenia	1 (7.69%)	2 (13.33%)	1 (33.33%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	1 (12.50%)	3 (10.71%)	1 (5.56%)	2 (8.33%)	6 (8.57%)

Lymphopenia	1 (7.69 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	0 (0.00%)	2 (2.86%)
Neutropenia	10 (76.92%)	10 (66.67%)	0 (0.00%)	1 (16.67%)	7 (77.78%)	8 (80.00%)	4 (66.67%)	5 (62.50%)	20 (71.43%)	8 (44.44%)	17 (70.83%)	45 (64.29%)
Thrombocytopenia	3 (23.08 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	5 (55.56%)	2 (20.00%)	2 (33.33%)	2 (25.00%)	3 (10.71%)	5 (27.78%)	6 (25.00%)	14 (20.00%)
<b>Cardiac disorders</b>												
Atrioventricular block first degree	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Palpitations	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Pericardial effusion	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Sinus bradycardia	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Supraventricular tachycardia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Tachycardia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	2 (8.33%)	2 (2.86%)
<b>Endocrine disorders</b>												
Hypothyroidism	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)

<b>Eye disorders</b>												
Asthenopia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Cataract	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Corneal deposits	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Dry eye	1 (7.69 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	1 (4.17%)	3 (4.29%)
Eye swelling	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Lacrimation increased	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Ocular hyperemia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Strabismus	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Vision blurred	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	1 (5.56%)	0 (0.00%)	2 (2.86%)
<b>Gastrointestinal disorders</b>												
Abdominal discomfort	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Abdominal distension	1 (7.69 %)	1 (6.67%)	1 (33.33 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	1 (5.56%)	0 (0.00%)	3 (4.29%)

Abdominal pain	1 (7.69 %)	5 (33.33 %)	2 (66.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	6 (21.43%)	2 (11.11%)	1 (4.17%)	9 (12.86%)
Abdominal pain upper	2 (15.38 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	2 (7.14%)	0 (0.00%)	1 (4.17%)	3 (4.29%)
Aphthous ulcer	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Ascites	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Bowel movement irregularity	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Constipation	1 (7.69 %)	4 (26.67 %)	2 (66.67 %)	2 (33.33 %)	1 (11.11 %)	2 (20.00 %)	1 (16.67 %)	1 (12.50 %)	5 (17.86%)	5 (27.78%)	4 (16.67%)	14 (20.00 %)
Diarrhoea	4 (30.77 %)	4 (26.67 %)	3 (100.00 %)	2 (33.33 %)	3 (33.33 %)	4 (40.00 %)	2 (33.33 %)	4 (50.00 %)	8 (28.57%)	8 (44.44%)	10 (41.67 %)	26 (37.14 %)
Dry mouth	0 (0.00 %)	2 (13.33 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	0 (0.00%)	2 (2.86%)
Dyspepsia	0 (0.00 %)	1 (6.67%)	1 (33.33 %)	1 (16.67 %)	3 (33.33 %)	1 (10.00 %)	2 (33.33 %)	1 (12.50 %)	1 (3.57%)	5 (27.78%)	4 (16.67%)	10 (14.29 %)
Dysphagia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	2 (8.33%)	2 (2.86%)
Epigastric discomfort	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Eructation	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Faeces soft	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)

Flatulence	1 (7.69 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	1 (4.17%)	3 (4.29%)
Gastroesophageal reflux disease	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	1 (10.00 %)	2 (33.33 %)	1 (12.50 %)	1 (3.57%)	1 (5.56%)	4 (16.67%)	6 (8.57%)
Haemorrhoids	1 (7.69 %)	1 (6.67%)	0 (0.00%)	2 (33.33 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	2 (11.11%)	0 (0.00%)	4 (5.71%)
Mouth ulceration	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Nausea	7 (53.85 %)	9 (60.00 %)	2 (66.67 %)	3 (50.00 %)	7 (77.78 %)	6 (60.00 %)	4 (66.67 %)	7 (87.50 %)	16 (57.14%)	12 (66.67 %)	17 (70.83 %)	45 (64.29 %)
odynophagia	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Oesophagitis	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	1 (5.56%)	1 (4.17%)	2 (2.86%)
Oral pain	2 (15.38 %)	1 (6.67%)	1 (33.33 %)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	3 (10.71%)	1 (5.56%)	1 (4.17%)	5 (7.14%)
Stomatitis	0 (0.00 %)	3 (20.00 %)	1 (33.33 %)	0 (0.00%)	5 (55.56 %)	2 (20.00 %)	1 (16.67 %)	2 (25.00 %)	3 (10.71%)	6 (33.33%)	5 (20.83%)	14 (20.00 %)
Vomiting	5 (38.46 %)	3 (20.00 %)	2 (66.67 %)	1 (16.67 %)	2 (22.22 %)	4 (40.00 %)	2 (33.33 %)	2 (25.00 %)	8 (28.57%)	5 (27.78%)	8 (33.33%)	21 (30.00 %)

**General disorders and administration site conditions**

Asthenia	1 (7.69 %)	3 (20.00 %)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	1 (10.00 %)	0 (0.00%)	1 (12.50 %)	4 (14.29%)	1 (5.56%)	2 (8.33%)	7 (10.00%)
Catheter site dermatitis	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Catheter site pain	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Catheter site pruritus	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Chest discomfort	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (22.22 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (11.11%)	0 (0.00%)	2 (2.86%)
Chills	0 (0.00 %)	2 (13.33 %)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	2 (7.14%)	1 (5.56%)	1 (4.17%)	4 (5.71%)
Fatigue	9 (69.23 %)	8 (53.33 %)	1 (33.33 %)	3 (50.00 %)	6 (66.67 %)	6 (60.00 %)	4 (66.67 %)	4 (50.00 %)	17 (60.71%)	10 (55.56 %)	14 (58.33 %)	41 (58.57 %)
Gait disturbance	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (20.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (8.33%)	2 (2.86%)
Impaired healing	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Influenza like illness	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Injection site pain	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Malaise	1 (7.69 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	2 (7.14%)	0 (0.00%)	1 (4.17%)
												3 (4.29%)

<b>Mucosal inflammation</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
<b>Non-cardiac chest pain</b>	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
<b>Oedema peripheral</b>	0 (0.00 %)	2 (13.33 %)	0 (0.00%)	1 (16.67 %)	1 (11.11 %)	1 (10.00 %)	0 (0.00%)	1 (12.50 %)	2 (7.14%)	2 (11.11%)	2 (8.33%)	6 (8.57%)
<b>Pain</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<b>Peripheral swelling</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	1 (5.56%)	1 (4.17%)	2 (2.86%)
<b>Pyrexia</b>	3 (23.08 %)	2 (13.33 %)	0 (0.00%)	2 (33.33 %)	1 (11.11 %)	1 (10.00 %)	1 (16.67 %)	2 (25.00 %)	5 (17.86%)	3 (16.67%)	4 (16.67%)	12 (17.14 %)
<b>Temperature intolerance</b>	0 (0.00 %)	1 (6.67%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	1 (5.56%)	0 (0.00%)	2 (2.86%)
<b>Immune system disorders</b>												
<b>Contraceptive reaction</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<b>Drug hypersensitivity</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<b>Infections and infestations</b>												

Catheter site infection	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Conjunctivitis	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Ear infection	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Ear infection fungal	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Escherichia infection	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Escherichia urinary tract infection	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Hepatitis B	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Herpes simplex	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Herpes virus infection	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Influenza	0 (0.00 %)	2 (13.33 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	1 (4.17%)	3 (4.29%)
Mastitis	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Nasopharyngitis	0 (0.00 %)	2 (13.33 %)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	2 (7.14%)	1 (5.56%)	1 (4.17%)	4 (5.71%)
Oral candidiasis	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)

Oropharyngeal candidiasis	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Pneumonia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	1 (4.17%)	2 (2.86%)
Tinea infection	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Tooth infection	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Upper respiratory tract infection	2 (15.38 %)	1 (6.67%)	0 (0.00%)	1 (16.67 %)	2 (22.22 %)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	3 (10.71%)	3 (16.67%)	1 (4.17%)	7 (10.00%)	
Urinary tract infection	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (8.33%)	2 (2.86%)	
Vulvovaginal candidiasis	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)	
<b>Injury, poisoning and procedural complications</b>													
Foot fracture	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)	
Infusion related reaction	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)	
Overdose	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	1 (3.57%)	1 (5.56%)	1 (4.17%)	3 (4.29%)	

Radiatio n pneumo nitis	0 (0.00 %)	0 (0.00% )	0 (0.00% )	0 (0.00% )	1 (11.11 %)	0 (0.00% )	0 (0.00% )	0 (0.00% )	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.4 3%)
Wound complic ation	0 (0.00 %)	0 (0.00% )	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.4 3%)					
<b>Investigat ions</b>												
Alanine aminotr ansfера se increas ed	4 (30.77 %)	4 (26.67 %)	2 (66.67 %)	5 (83.33 %)	1 (11.11 %)	5 (50.00 %)	3 (50.00 %)	3 (37.50 %)	8 (28.57%)	8 (44.44%)	11 (45.83 %)	27 (3 8.57 %)
Amylas e increas ed	2 (15.38 %)	0 (0.00% )	0 (0.00% )	0 (0.00% )	0 (0.00% )	1 (10.00 %)	0 (0.00% )	1 (12.50 %)	2 (7.14%)	0 (0.00%)	2 (8.33%)	4 (5.7 1%)
Aspartat e aminotr ansfера se increas ed	5 (38.46 %)	4 (26.67 %)	1 (33.33 %)	5 (83.33 %)	1 (11.11 %)	5 (50.00 %)	4 (66.67 %)	5 (62.50 %)	9 (32.14%)	7 (38.89%)	14 (58.33 %)	30 (4 2.86 %)
Blood alkaline phosph atase increas ed	2 (15.38 %)	1 (6.67% )	0 (0.00% )	1 (16.67 %)	0 (0.00% )	0 (0.00% )	0 (0.00% )	2 (25.00 %)	3 (10.71%)	1 (5.56%)	2 (8.33%)	6 (8.5 7%)
Blood bilirubin increas ed	1 (7.69 %)	1 (6.67% )	0 (0.00% )	2 (33.33 %)	0 (0.00% )	0 (0.00% )	1 (16.67 %)	0 (0.00% )	2 (7.14%)	2 (11.11%)	1 (4.17%)	5 (7.1 4%)

Blood calcium decreased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Blood chloride decreased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Blood chloride increased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Blood creatinine increased	2 (15.38 %)	2 (13.33 %)	0 (0.00%)	2 (33.33 %)	1 (11.11 %)	3 (30.00 %)	1 (16.67 %)	0 (0.00%)	4 (14.29%)	3 (16.67%)	4 (16.67%)	11 (15.71 %)
Blood glucose increased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Blood lactate dehydrogenase increased	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Blood potassium decreased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Blood sodium decreased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)

Electrocardiogram QT prolonged	2 (15.38 %)	2 (13.33 %)	0 (0.00%)	1 (16.67 %)	1 (11.11 %)	1 (10.00 %)	0 (0.00%)	1 (12.50 %)	4 (14.29%)	2 (11.11%)	2 (8.33%)	8 (11.43%)
<hr/>												
Gamma-glutamyl transferase increased	0 (0.00 %)	1 (6.67%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (3.57%)	1 (5.56%)	1 (4.17%)	3 (4.29%)
<hr/>												
Haematocrit decreased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	1 (4.17%)	2 (2.86%)
<hr/>												
Haemoglobin decreased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
<hr/>												
Heart rate increased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<hr/>												
Lipase increased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<hr/>												
Lymphocyte count decreased	2 (15.38 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	1 (16.67 %)	1 (12.50 %)	2 (7.14%)	0 (0.00%)	3 (12.50%)	5 (7.14%)
<hr/>												
Monocyte count increased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)

Neutrophil count decreased	2 (15.38 %)	2 (13.33 %)	1 (33.33 %)	0 (0.00%)	0 (0.00%)	2 (20.00 %)	1 (16.67 %)	1 (12.50 %)	4 (14.29%)	1 (5.56%)	4 (16.67%)	9 (12.86%)
Platelet count decreased	3 (23.08 %)	0 (0.00%)	1 (33.33 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	2 (25.00 %)	3 (10.71%)	1 (5.56%)	3 (12.50%)	7 (10.00%)
Protein total decreased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Transaminases increased	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	2 (25.00 %)	1 (3.57%)	0 (0.00%)	3 (12.50%)	4 (5.71%)
Weight decreased	0 (0.00 %)	0 (0.00%)	0 (0.00%)	2 (33.33 %)	1 (11.11 %)	1 (10.00 %)	3 (50.00 %)	1 (12.50 %)	0 (0.00%)	3 (16.67%)	5 (20.83%)	8 (11.43%)
Weight increased	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
White blood cell count decreased	4 (30.77 %)	2 (13.33 %)	1 (33.33 %)	0 (0.00%)	1 (11.11 %)	2 (20.00 %)	1 (16.67 %)	2 (25.00 %)	6 (21.43%)	2 (11.11%)	5 (20.83%)	13 (18.57 %)
<b>Metabolism and nutrition disorders</b>												
Decreased appetite	6 (46.15 %)	2 (13.33 %)	1 (33.33 %)	1 (16.67 %)	4 (44.44 %)	3 (30.00 %)	3 (50.00 %)	5 (62.50 %)	8 (28.57%)	6 (33.33%)	11 (45.83 %)	25 (35.71 %)

Dehydratation	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	2 (20.00%)	1 (16.67%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	3 (12.50%)	4 (5.71%)
Hypercaicaemia	0 (0.00%)	1 (6.67%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	1 (5.56%)	0 (0.00%)	2 (2.86%)
Hypercholesterolaemia	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Hyperglycaemia	2 (15.38%)	0 (0.00%)	2 (66.67%)	5 (83.33%)	5 (55.56%)	4 (40.00%)	1 (16.67%)	4 (50.00%)	2 (7.14%)	12 (66.67%)	9 (37.50%)	23 (32.86%)
Hyperkalaemia	0 (0.00%)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Hypermagnesaemia	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Hypernatraemia	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Hypoalbuminaemia	2 (15.38%)	0 (0.00%)	0 (0.00%)	1 (16.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	1 (5.56%)	0 (0.00%)	3 (4.29%)
Hypocalcaemia	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	1 (5.56%)	1 (4.17%)	2 (2.86%)
Hypoglycaemia	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Hypokalaemia	1 (7.69%)	0 (0.00%)	0 (0.00%)	2 (33.33%)	0 (0.00%)	1 (10.00%)	2 (33.33%)	0 (0.00%)	1 (3.57%)	2 (11.11%)	3 (12.50%)	6 (8.57%)
Hypomagnesae mia	1 (7.69%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	1 (3.57%)	1 (5.56%)	1 (4.17%)	3 (4.29%)
Hyponatraemia	2 (15.38%)	0 (0.00%)	0 (0.00%)	1 (16.67%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	1 (5.56%)	1 (4.17%)	4 (5.71%)

Hypophosphatasemia	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67%)	2 (25.00%)	0 (0.00%)	0 (0.00%)	3 (12.50%)	3 (4.29%)
<b>Musculoskeletal and connective tissue disorders</b>												
Arthralgia	2 (15.38%)	4 (26.67%)	0 (0.00%)	1 (16.67%)	1 (11.11%)	2 (20.00%)	1 (16.67%)	2 (25.00%)	6 (21.43%)	2 (11.11%)	5 (20.83%)	13 (18.57%)
Back pain	1 (7.69%)	3 (20.00%)	1 (33.33%)	0 (0.00%)	0 (0.00%)	2 (20.00%)	1 (16.67%)	1 (12.50%)	4 (14.29%)	1 (5.56%)	4 (16.67%)	9 (12.86%)
Bone pain	1 (7.69%)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	0 (0.00%)	2 (2.86%)
Joint swelling	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Muscle spasms	1 (7.69%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (30.00%)	0 (0.00%)	1 (12.50%)	1 (3.57%)	0 (0.00%)	4 (16.67%)	5 (7.14%)
Muscular weakness	0 (0.00%)	1 (6.67%)	0 (0.00%)	1 (16.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	1 (5.56%)	0 (0.00%)	2 (2.86%)
Musculoskeletal chest pain	0 (0.00%)	1 (6.67%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	1 (5.56%)	0 (0.00%)	2 (2.86%)
Musculoskeletal pain	2 (15.38%)	2 (13.33%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (20.00%)	0 (0.00%)	0 (0.00%)	4 (14.29%)	0 (0.00%)	2 (8.33%)	6 (8.57%)
Myalgia	1 (7.69%)	2 (13.33%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	3 (10.71%)	0 (0.00%)	1 (4.17%)	4 (5.71%)
Neck pain	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)

Osteonecrosis of jaw	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Pain in extremity	1 (7.69%)	3 (20.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	4 (14.29%)	0 (0.00%)	1 (4.17%)	5 (7.14%)
Pain in jaw	0 (0.00%)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Scoliosis	0 (0.00%)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
<b>Neoplasms</b>												
<b>benign, malignant and unspecified (incl cysts and polyps)</b>												
Malignant melanoma	0 (0.00%)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
<b>Nervous system disorders</b>												
Ataxia	0 (0.00%)	0 (0.00%)	1 (33.33%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Dizziness	2 (15.38%)	1 (6.67%)	1 (33.33%)	2 (33.33%)	1 (11.11%)	1 (10.00%)	0 (0.00%)	1 (12.50%)	3 (10.71%)	4 (22.22%)	2 (8.33%)	9 (12.86%)
Dysgeusia	2 (15.38%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (33.33%)	3 (37.50%)	2 (7.14%)	0 (0.00%)	5 (20.83%)	7 (10.00%)
Headache	1 (7.69%)	3 (20.00%)	1 (33.33%)	4 (66.67%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	2 (25.00%)	4 (14.29%)	5 (27.78%)	3 (12.50%)	12 (17.14%)

Hyperesthesia	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Hypoesthesia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	2 (8.33%)	2 (2.86%)
Migraine with aura	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Neuralgia	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Neuropathy peripheral	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	1 (5.56%)	0 (0.00%)	2 (2.86%)
Paraesthesia	0 (0.00 %)	0 (0.00%)	1 (33.33 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Parosmia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Peripheral sensory neuropathy	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Somnolence	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Syncop e	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	1 (4.17%)	2 (2.86%)
Tremor	0 (0.00 %)	2 (13.33 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	0 (0.00%)	2 (2.86%)
Visual field defect	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)

**Psychiatric disorders**

Anxiety	2 (15.38 %)	1 (6.67%)	0 (0.00%)	1 (16.67%)	0 (0.00%)	2 (20.00%)	0 (0.00%)	2 (25.00%)	3 (10.71%)	1 (5.56%)	4 (16.67%)	8 (11.43%)
Confusional state	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Depressed mood	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Depression	1 (7.69 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	1 (16.67%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	2 (8.33%)	4 (5.71%)
Emotional distress	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Insomnia	0 (0.00 %)	1 (6.67%)	1 (33.33%)	1 (16.67%)	3 (33.33%)	0 (0.00%)	0 (0.00%)	2 (25.00%)	1 (3.57%)	5 (27.78%)	2 (8.33%)	8 (11.43%)
Mood altered	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	2 (25.00%)	0 (0.00%)	0 (0.00%)	3 (12.50%)	3 (4.29%)
Mood swings	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
<b>Renal and urinary disorders</b>												
Acute kidney injury	0 (0.00 %)	0 (0.00%)	1 (33.33%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Chromaturia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Dysuria	1 (7.69 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	0 (0.00%)	1 (4.17%)	3 (4.29%)
Nocturia	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Pollakiuria	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)

Strangury	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Urinary hesitatio n	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
<b>Reproductive system and breast disorders</b>												
Breast pain	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Vaginal haemorrh age	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Vulvovaginal dryness	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<b>Respiratory, thoracic and mediastinal disorders</b>												
Chronic obstructive pulmonary disease	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Cough	5 (38.46 %)	0 (0.00%)	1 (33.33 %)	1 (16.67 %)	2 (22.22 %)	1 (10.00 %)	1 (16.67 %)	0 (0.00%)	5 (17.86%)	4 (22.22%)	2 (8.33%)	11 (15.71 %)

Dysphonia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Dyspnoea	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (20.00 %)	0 (0.00%)	2 (25.00 %)	1 (3.57%)	0 (0.00%)	4 (16.67%)	5 (7.14%)
Dyspnoea exertional	2 (15.38 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	2 (7.14%)	0 (0.00%)	1 (4.17%)	3 (4.29%)
Hypoxia	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Interstitial lung disease	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
Nasal congestion	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Oropharyngeal pain	1 (7.69 %)	1 (6.67%)	1 (33.33 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	1 (5.56%)	0 (0.00%)	3 (4.29%)
Paranasal sinus hypersecretion	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Pneumonitis	2 (15.38 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	2 (7.14%)	0 (0.00%)	1 (4.17%)	3 (4.29%)
Productive cough	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	1 (5.56%)	0 (0.00%)	2 (2.86%)
Respiratory tract congestion	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
Rhinorrhoea	1 (7.69 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	2 (22.22 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (7.14%)	2 (11.11%)	0 (0.00%)	4 (5.71%)

<b>Sinus congestion</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
<b>Wheezing</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)
<b>Skin and subcutaneous tissue disorders</b>												
<b>Alopecia</b>	0 (0.00 %)	1 (6.67%)	1 (33.33 %)	1 (16.67 %)	2 (22.22 %)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (3.57%)	4 (22.22%)	1 (4.17%)	6 (8.57%)
<b>Dermatitis allergic</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
<b>Dry skin</b>	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (30.00 %)	2 (33.33 %)	1 (12.50 %)	1 (3.57%)	0 (0.00%)	6 (25.00%)	7 (10.00%)
<b>Eczema</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<b>Erythema</b>	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	1 (3.57%)	0 (0.00%)	1 (4.17%)	2 (2.86%)
<b>Madarosis</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<b>Nail disorder</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
<b>Palmar-plantar erythrodysesthesia syndrome</b>	0 (0.00 %)	0 (0.00%)	0 (0.00%)	1 (16.67 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	0 (0.00%)	1 (1.43%)
<b>Pruritus</b>	4 (30.77 %)	4 (26.67 %)	0 (0.00%)	1 (16.67 %)	1 (11.11 %)	2 (20.00 %)	3 (50.00 %)	3 (37.50 %)	8 (28.57%)	2 (11.11%)	8 (33.33%)	18 (25.71 %)

Rash	1 (7.69 %)	2 (13.33 %)	1 (33.33 %)	1 (16.67 %)	6 (66.67 %)	5 (50.00 %)	1 (16.67 %)	4 (50.00 %)	3 (10.71%)	8 (44.44%)	10 (41.67 %)	21 (30.00 %)
Rash maculopapular	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	3 (30.00 %)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	1 (5.56%)	4 (16.67%)	5 (7.14%)
Rash pruritic	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	1 (5.56%)	1 (4.17%)	2 (2.86%)
Skin discolouration	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Skin exfoliation	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.56%)	1 (4.17%)	2 (2.86%)
Skin hypopigmentation	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Skin irritation	1 (7.69 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
Urticaria	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)
Vitiligo	0 (0.00 %)	1 (6.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	1 (1.43%)
<b>Vascular disorders</b>												
Hot flush	1 (7.69 %)	2 (13.33 %)	0 (0.00%)	0 (0.00%)	1 (11.11 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (10.71%)	1 (5.56%)	0 (0.00%)	4 (5.71%)
Hypotension	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00 %)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	2 (8.33%)	2 (2.86%)
Peripheral coldness	0 (0.00 %)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (12.50 %)	0 (0.00%)	0 (0.00%)	1 (4.17%)	1 (1.43%)

## Other Relevant Findings

### **RP2D/MTD:**

The RP2D for Arm 3 was confirmed at LEE011 600 mg (3 weeks on, 1 week off) + fulvestrant. The RP2D for Arm 3A was confirmed at LEE011 400 mg continuous + fulvestrant.

The combination of LEE011 400 mg (3 weeks on, 1 week off) + BKM120 30 mg (daily) + fulvestrant was determined to be the RP2D. Dose escalation in the triplet combinations were stopped due to elevated rates of adverse events considered incompatible with long-term dosing. As a result, the RP2D was not determined for the combination of LEE011 + BYL719 + fulvestrant. The MTD was not declared for any of the arms.

### **Conclusion:**

- LEE011 (Ribociclib) 600 mg (3 weeks on, 1 week off regimen) + fulvestrant 500 mg (dosed on Days 1 and 15 in Cycle 1, and Day 1 of each subsequent cycle) was confirmed as the RP2D in patients with HR-positive/HER2-negative advanced breast cancer.
- LEE011 (Ribociclib) in combination with fulvestrant demonstrated clinical activity in patients with HR-positive/HER2-negative advanced breast cancer who had failed or progressed on AI treatment.
- LEE011 (Ribociclib) 400 mg (3 weeks on, 1 week off regimen) + BKM120 30 mg (daily) + fulvestrant 500 mg was confirmed as the RP2D for this triplet combination in patients with HRpositive/HER2-negative advanced breast cancer.
- Dose escalations in the triplet combinations were stopped due to elevated rates of adverse events considered incompatible with long-term dosing. As a result, the RP2D was not determined for the combination of LEE011 + BYL719 + fulvestrant.
- LEE011 (Ribociclib) in combination with BKM120 plus fulvestrant demonstrated clinical activity in patients with HR-positive/HER2-negative advanced breast cancer who had failed or progressed on AI treatment.
- PK results on Cycle 1 Day 21 following administration of LEE011 (Ribociclib) 400 mg (continuous daily dosing) or 600 mg (3 weeks on, 1 week off regimen) + fulvestrant in combination with BYL719 or BKM120, suggested no marked differences in LEE011 (Ribociclib) PK in the presence of any of the combination partners.

### **Date of Clinical Trial Report**

11 March 2019