



## Clinical trial results:

### A Phase II, Randomized, Active Comparator-Controlled Clinical Trial to Study the Safety, Tolerability, and Efficacy of MK-7655 + Imipenem/Cilastatin Versus Imipenem/Cilastatin Alone in Patients with Complicated Intra-Abdominal Infection [cIAI]

#### Summary

EudraCT number	2011-005686-20
Trial protocol	DE ES PT GR LT LV EE BG PL
Global end of trial date	12 August 2014

#### Results information

Result version number	v1
This version publication date	05 April 2016
First version publication date	01 August 2015

#### Trial information

##### Trial identification

Sponsor protocol code	MK-7655-004
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##### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT01506271
WHO universal trial number (UTN)	-

Notes:

#### Sponsors

Sponsor organisation name	Merck Sharp & Dohme Corp.
Sponsor organisation address	2000 Galloping Hill Road, Kenilworth, NJ, United States, 07033
Public contact	Clinical Trials Disclosure, Merck Sharp & Dohme Corp., ClinicalTrialsDisclosure@merck.com
Scientific contact	Clinical Trials Disclosure, Merck Sharp & Dohme Corp., ClinicalTrialsDisclosure@merck.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	12 August 2014
Is this the analysis of the primary completion data?	Yes
Primary completion date	12 August 2014
Global end of trial reached?	Yes
Global end of trial date	12 August 2014
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

The purpose of this study is to evaluate the efficacy, safety and tolerability of adding 125 mg or 250 mg doses of MK-7655 to imipenem/cilastatin in adults 18 years or older with complicated intra-abdominal infection (cIAI). The primary hypothesis is that the MK-7655 + imipenem/cilastatin treatment regimen is non-inferior to treatment with imipenem/cilastatin alone with respect to the proportion of participants with a favorable clinical response at completion of intravenous (IV) study therapy.

Protection of trial subjects:

This study was conducted in conformance with Good Clinical Practice standards and applicable country and/or local statutes and regulations regarding ethical committee review, informed consent, and the protection of human subjects participating in biomedical research.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	01 June 2012
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Argentina: 3
Country: Number of subjects enrolled	Poland: 12
Country: Number of subjects enrolled	Portugal: 10
Country: Number of subjects enrolled	Bulgaria: 2
Country: Number of subjects enrolled	Estonia: 14
Country: Number of subjects enrolled	Germany: 9
Country: Number of subjects enrolled	Greece: 6
Country: Number of subjects enrolled	Latvia: 27
Country: Number of subjects enrolled	Lithuania: 21
Country: Number of subjects enrolled	Brazil: 3
Country: Number of subjects enrolled	Colombia: 1
Country: Number of subjects enrolled	Mexico: 6
Country: Number of subjects enrolled	Peru: 7
Country: Number of subjects enrolled	Romania: 62
Country: Number of subjects enrolled	Russian Federation: 21
Country: Number of subjects enrolled	South Africa: 12
Country: Number of subjects enrolled	Taiwan: 10
Country: Number of subjects enrolled	Turkey: 8

Country: Number of subjects enrolled	Ukraine: 96
Country: Number of subjects enrolled	United States: 21
Worldwide total number of subjects	351
EEA total number of subjects	163

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)	271
From 65 to 84 years	77
85 years and over	3

## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

Adult males or females 18 years old or older, with cIAI requiring treatment with IV antibiotic therapy were enrolled in this trial.

### Period 1

Period 1 title	Overall Trial (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

### Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	MK-7655 250 mg + IPM/CIL

Arm description:

MK-7655 250 mg and imipenem/cilastatin (IPM/CIL) 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.

Arm type	Experimental
Investigational medicinal product name	MK-7655
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Powder for solution for injection/infusion
Routes of administration	Intravenous use

Dosage and administration details:

MK-7655 250 mg was administered by IV over a 30-minute interval, every 6 hours for a minimum of 96 hours.

Investigational medicinal product name	Imipenem/Cilastatin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Powder for solution for injection/infusion
Routes of administration	Intravenous use

Dosage and administration details:

Imipenem/Cilastatin (IPM/CIL) 500 mg was administered by IV over a 30-minute interval, every 6 hours for a minimum of 96 hours.

<b>Arm title</b>	MK-7655 125 mg + IPM/CIL
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Arm description:

MK-7655 125 mg and IPM/CIL 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.

Arm type	Experimental
Investigational medicinal product name	MK-7655
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Powder for solution for injection/infusion
Routes of administration	Intravenous use

Dosage and administration details:

MK-7655 125 mg was administered by IV over a 30-minute interval, every 6 hours for a minimum of 96 hours.

Investigational medicinal product name	Imipenem/Cilastatin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Powder for solution for injection/infusion
Routes of administration	Intravenous use

**Dosage and administration details:**

Imipenem/Cilastatin (IPM/CIL) 500 mg was administered by IV over a 30-minute interval, every 6 hours for a minimum of 96 hours.

<b>Arm title</b>	Placebo + IPM/CIL
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**Arm description:**

Placebo for MK-7655 and IPM/CIL 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.

Arm type	Placebo
Investigational medicinal product name	Placebo for MK-7655
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection/infusion
Routes of administration	Intravenous use

**Dosage and administration details:**

Normal saline (0.9%) was administered by IV over a 30-minute interval, every 6 hours for a minimum of 96 hours.

Investigational medicinal product name	Imipenem/Cilastatin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Powder for solution for injection/infusion
Routes of administration	Intravenous use

**Dosage and administration details:**

Imipenem/Cilastatin (IPM/CIL) 500 mg was administered by IV over a 30-minute interval, every 6 hours for a minimum of 96 hours.

<b>Number of subjects in period 1</b>	<b>MK-7655 250 mg + IPM/CIL</b>	<b>MK-7655 125 mg + IPM/CIL</b>	<b>Placebo + IPM/CIL</b>
Started	118	116	117
Treated	117	116	114
Completed	114	109	114
Not completed	4	7	3
Adverse event, serious fatal	-	1	-
Consent withdrawn by subject	-	1	1
Adverse event, non-fatal	-	2	-
Insufficient supply of study drug	1	-	-
Lost to follow-up	-	1	2
Progressive disease	-	1	-
Protocol deviation	3	1	-



## Baseline characteristics

### Reporting groups

Reporting group title	MK-7655 250 mg + IPM/CIL
Reporting group description: MK-7655 250 mg and imipenem/cilastatin (IPM/CIL) 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.	
Reporting group title	MK-7655 125 mg + IPM/CIL
Reporting group description: MK-7655 125 mg and IPM/CIL 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.	
Reporting group title	Placebo + IPM/CIL
Reporting group description: Placebo for MK-7655 and IPM/CIL 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.	

Reporting group values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL
Number of subjects	118	116	117
Age categorical Units: Subjects			

Age continuous Units: years arithmetic mean standard deviation	48.3 ± 18.9	49.8 ± 17.4	49.1 ± 17.8
Gender categorical Units: Subjects			
Female	44	54	51
Male	74	62	66

Reporting group values	Total		
Number of subjects	351		
Age categorical Units: Subjects			

Age continuous Units: years arithmetic mean standard deviation	-		
Gender categorical Units: Subjects			
Female	149		
Male	202		

## End points

### End points reporting groups

Reporting group title	MK-7655 250 mg + IPM/CIL
Reporting group description: MK-7655 250 mg and imipenem/cilastatin (IPM/CIL) 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.	
Reporting group title	MK-7655 125 mg + IPM/CIL
Reporting group description: MK-7655 125 mg and IPM/CIL 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.	
Reporting group title	Placebo + IPM/CIL
Reporting group description: Placebo for MK-7655 and IPM/CIL 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.	

### Primary: Percentage of participants with a favorable clinical response at completion of IV study therapy

End point title	Percentage of participants with a favorable clinical response at completion of IV study therapy
End point description: A favorable clinical response is assessed by the clinical investigator as a cure, and is defined as a situation where all or most pre-therapy signs and symptoms of the index infection have resolved, or returned to pre-infection status, and no additional antibiotic therapy is required. The microbiologically evaluable (ME) population was analyzed, defined as participants who: (1) met the protocol definition of cIAI; (2) had a pre-study/post operative culture from the site of infection grew at least one Gram-negative enteric and/or anaerobic pathogen; (3) had no significant deviations from the protocol that could impact the efficacy assessment; and (4) received $\geq 96$ hours of IV study therapy.	
End point type	Primary
End point timeframe: 4 to 14 days post initiation of IV study therapy (up to post-randomization day 14)	

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	81 <sup>[1]</sup>	86 <sup>[2]</sup>	83 <sup>[3]</sup>	
Units: Percentage of Participants				
number (confidence interval 95%)	96.3 (89.6 to 99.2)	98.8 (93.7 to 100)	95.2 (88.1 to 98.7)	

Notes:

[1] - Two participants with indeterminate or missing responses are excluded from the analysis

[2] - One participant with indeterminate or missing responses is excluded from the analysis

[3] - Two participants with indeterminate or missing responses are excluded from the analysis

### Statistical analyses

Statistical analysis title	MK-7655 250 mg - Placebo: Treatment Difference
Statistical analysis description: Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification.	



Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	164
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	< 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	1.1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.2
upper limit	8.6

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
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Statistical analysis description:

Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	169
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	< 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	3.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2
upper limit	10.8

**Primary: Percentage of participants with an elevated aspartate aminotransferase (AST) or alanine aminotransferase (ALT) laboratory values that are greater than or equal to 5X the upper limit of normal (ULN)**

End point title	Percentage of participants with an elevated aspartate aminotransferase (AST) or alanine aminotransferase (ALT) laboratory values that are greater than or equal to 5X the upper limit of normal (ULN)
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End point description:

A confirmed (i.e., verified by repeat testing) elevated AST or ALT laboratory value that is greater than or equal to 5 X ULN as a result of within-protocol-specific testing or unscheduled testing.

End point type	Primary
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End point timeframe:

Up to 14 days following completion of all study therapy (up to Day 42)

<b>End point values</b>	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)	1.7	0	1.8	

### Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: Percent Difference
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other <sup>[4]</sup>
P-value	= 0.979
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.7
upper limit	4.5

Notes:

[4] - The analysis type is a traditional test for a non-zero difference.

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Percent Difference
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other <sup>[5]</sup>
P-value	= 0.153
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	-1.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.2
upper limit	1.5

Notes:

[5] - The analysis type is a traditional test for a non-zero difference.

**Primary: Percentage of participants with elevated AST or ALT laboratory values that are greater than or equal to 3X the ULN, as well as elevated total bilirubin greater**

**than or equal to 2X the ULN, and alkaline phosphatase values that are less than 2X the ULN**

End point title	Percentage of participants with elevated AST or ALT laboratory values that are greater than or equal to 3X the ULN, as well as elevated total bilirubin greater than or equal to 2X the ULN, and alkaline phosphatase values that are less than 2X the ULN
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End point description:

A confirmed (i.e., verified by repeat testing) elevated AST or ALT laboratory value that is greater than or equal to 3 X ULN, as well as elevated total bilirubin greater than or equal to 2X the ULN, and alkaline phosphatase values that are less than 2X the ULN, as a result of within-protocol-specific testing or unscheduled testing.

End point type	Primary
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End point timeframe:

Up to 14 days following completion of all study therapy (up to Day 42)

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)	0.9	0	0	

**Statistical analyses**

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: Percent Difference
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other <sup>[6]</sup>
P-value	= 0.324
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	0.9
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.4
upper limit	4.7

Notes:

[6] - The analysis type is a traditional test for a non-zero difference.

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Percent Difference
Comparison groups	Placebo + IPM/CIL v MK-7655 125 mg + IPM/CIL

Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other <sup>[7]</sup>
P-value	> 0.999
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.3
upper limit	3.2

Notes:

[7] - The analysis type is a traditional test for a non-zero difference.

### Primary: Percentage of participants with any adverse event (AE)

End point title	Percentage of participants with any adverse event (AE)
End point description:	
An AE is any unfavorable and unintended change in the structure, function, or chemistry of the body temporally associated with the use of the medicinal product, whether or not considered related to the use of the product. Any worsening (i.e., any clinically significant adverse change in frequency and/or intensity) of a preexisting condition which is temporally associated with the use of the medicinal product, is also an AE.	
End point type	Primary
End point timeframe:	
Up to 14 days following completion of all study therapy (up to Day 42)	

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)	48.7	47.4	41.2	

### Statistical analyses

Statistical analysis title	MK-7655 250 mg - Placebo: Treatment Difference
Statistical analysis description:	
Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	7.5

Confidence interval	
level	95 %
sides	2-sided
lower limit	-5.4
upper limit	20.1

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	6.2

Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.7
upper limit	18.8

### Primary: Percentage of participants with any serious adverse event (SAE)

End point title	Percentage of participants with any serious adverse event (SAE)
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End point description:

A SAE is any AE occurring at any dose that is life threatening; results in a persistent or significant disability/incapacity; prolongs an existing inpatient hospitalization; is a congenital anomaly/birth defect; or results in death.

End point type	Primary
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End point timeframe:

Up to 14 days following completion of all study therapy (up to Day 42)

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)	3.4	9.5	7	

### Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: Treatment Difference
Statistical analysis description:	
Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-3.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-10.3
upper limit	2.4

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
Statistical analysis description:	
Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	2.5
Confidence interval	
level	95 %
sides	2-sided
lower limit	-5
upper limit	10.1

<b>Primary: Percentage of participants with any drug-related AE</b>	
End point title	Percentage of participants with any drug-related AE
End point description:	
An AE is any unfavorable and unintended change in the structure, function, or chemistry of the body temporally associated with the use of the medicinal product, whether or not considered related to the use of the product. Any worsening (i.e., any clinically significant adverse change in frequency and/or intensity) of a preexisting condition which is temporally associated with the use of the medicinal product, is also an AE. A drug-related AE is an AE determined by the investigator to be possibly, probably or definitely related to drug treatment.	
End point type	Primary
End point timeframe:	
Up to 14 days following completion of all study therapy (up to Day 42)	

<b>End point values</b>	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)	13.7	13.8	9.6	

## Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: Treatment Difference
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	4
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.5
upper limit	12.7

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	4.1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.4
upper limit	12.8

## Primary: Percentage of participants with any serious drug-related AE

<b>End point title</b>	Percentage of participants with any serious drug-related AE
End point description: A SAE is any AE occurring at any dose that is life threatening; results in a persistent or significant	

disability/incapacity; prolongs an existing inpatient hospitalization; is a congenital anomaly/birth defect; or results in death. A drug-related SAE is a SAE determined by the investigator to be possibly, probably or definitely related to drug treatment.

End point type	Primary
End point timeframe:	
Up to 14 days following completion of all study therapy (up to Day 42)	

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)	0.9	0	0.9	

## Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: Treatment Difference
Statistical analysis description:	
Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4
upper limit	3.9

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
Statistical analysis description:	
Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-0.9



Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.8
upper limit	2.4

### Primary: Percentage of participants who discontinued IV study therapy due to an AE

End point title	Percentage of participants who discontinued IV study therapy due to an AE
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End point description:

An AE is any unfavorable and unintended change in the structure, function, or chemistry of the body temporally associated with the use of the medicinal product, whether or not considered related to the use of the product. Any worsening (i.e., any clinically significant adverse change in frequency and/or intensity) of a preexisting condition which is temporally associated with the use of the medicinal product, is also an AE. AEs assessed by the investigator that caused discontinuation of participant treatment are presented.

End point type	Primary
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End point timeframe:

Up to 14 days post initiation of IV study therapy

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)	0.9	4.3	2.6	

### Statistical analyses

Statistical analysis title	MK-7655 250 mg - Placebo: Treatment Difference
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.7
upper limit	2.3

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	1.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.7
upper limit	7.4

### Primary: Percentage of participants who discontinued IV study therapy due to a drug-related AE

End point title	Percentage of participants who discontinued IV study therapy due to a drug-related AE
End point description: An AE is any unfavorable and unintended change in the structure, function, or chemistry of the body temporally associated with the use of the medicinal product, whether or not considered related to the use of the product. Any worsening (i.e., any clinically significant adverse change in frequency and/or intensity) of a preexisting condition which is temporally associated with the use of the medicinal product, is also an AE. A drug-related AE is an AE determined by the investigator to be possibly, probably or definitely related to drug treatment. Drug-related AEs assessed by the investigator that caused discontinuation of participant treatment are presented.	
End point type	Primary
End point timeframe: Up to 14 days post initiation of IV study therapy	

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)	0	0.9	2.6	

### Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: Treatment Difference
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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-2.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.5
upper limit	0.6

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**Statistical analysis title**

MK-7655 125 mg - Placebo: Treatment Difference

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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.7
upper limit	2.4

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**Primary: Percentage of participants with AEs with incidence of  $\geq 4$  participants in one treatment group**

End point title	Percentage of participants with AEs with incidence of $\geq 4$ participants in one treatment group
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**End point description:**

An AE is any unfavorable and unintended change in the structure, function, or chemistry of the body temporally associated with the use of the medicinal product, whether or not considered related to the use of the product. Any worsening (i.e., any clinically significant adverse change in frequency and/or intensity) of a preexisting condition which is temporally associated with the use of the medicinal product, is also an AE. AE preferred terms with incidence greater than or equal to 4 in one treatment group are presented. AEs preferred terms which did not achieve this threshold are not reported. AE preferred terms are based on MedDRA version 17.0.

End point type	Primary
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**End point timeframe:**

Up to 14 days post initiation of IV study therapy (up to Day 42)

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<b>End point values</b>	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)				
Diarrhoea	6	6	4.4	
Nausea	6.8	7.8	7	
Vomiting	6	7.8	2.6	
Post-operative wound infection	2.6	1.7	4.4	
Seroma	0.9	4.3	0	
ALT increased	4.3	4.3	3.5	
AST increased	4.3	4.3	2.6	
Lipase increased	2.6	1.7	3.5	
Hypertension	0	2.6	3.5	

## Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Difference - Diarrhoea
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	1.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.7
upper limit	8.1

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Difference - Diarrhoea
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	Placebo + IPM/CIL v MK-7655 125 mg + IPM/CIL

Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	1.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.6
upper limit	8.2

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Difference - Nausea
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-0.2
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.3
upper limit	6.9

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Difference - Nausea
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	0.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.5
upper limit	8

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Difference - Vomiting
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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	3.4
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.3
upper limit	9.6

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**Statistical analysis title**

MK-7655 125 mg - Placebo: % Difference - Vomiting

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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	5.1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.7
upper limit	11.8

---

**Statistical analysis title**

MK-7655 250 mg - Placebo: % Diff. - Postop.infect.

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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.6
upper limit	3.5

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - Postop.infect.
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-2.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	-8.4
upper limit	2.2

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Difference - Seroma
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	0.9
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.4
upper limit	4.7

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Difference - Seroma
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	4.3

Confidence interval	
level	95 %
sides	2-sided
lower limit	1
upper limit	9.7

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - ALT increased
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	0.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-5
upper limit	6.6

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - ALT increased
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	0.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.9
upper limit	6.7

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - AST increased
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
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Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	1.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.7
upper limit	7.3

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - AST increased
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	Placebo + IPM/CIL v MK-7655 125 mg + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	1.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.7
upper limit	7.4

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff.-Lipase increased
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-0.9
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.5
upper limit	4.2

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff.-Lipase increased
Statistical analysis description:	
Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.2
upper limit	3

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - Hypertension
Statistical analysis description:	
Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-3.5
Confidence interval	
level	95 %
sides	2-sided
lower limit	-8.7
upper limit	-0.3

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - Hypertension
Statistical analysis description:	
Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-0.9
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.4
upper limit	4.3

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**Primary: Percentage of participants with predefined limit of change (PDLC) with incidence of  $\geq 4$  participants in one treatment group**

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End point title	Percentage of participants with predefined limit of change (PDLC) with incidence of $\geq 4$ participants in one treatment group <sup>[8]</sup>
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End point description:

PDLC are presented based on values from the following laboratory tests on serum: alanine aminotransferase (ALT), aspartate aminotransferase (AST), total bilirubin (Bil), and alkaline phosphatase (AP). Results are presented for PDLC from tests with reported incidence greater than or equal to 4 participants in one treatment group. Laboratory tests which did not achieve the PDLC threshold are not reported.

End point type	Primary
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End point timeframe:

Up to 14 days following completion of all study therapy (up to Day 42)

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Notes:

[8] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Only summary statistics are provided. Statistical comparisons between arms were not performed for this primary endpoint.

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)				
ALT $>2.5$ - $5.0$ X Baseline	3.6	2.6	9.1	
ALT $>5.0$ X Baseline	4.5	6.1	3.6	
AST $>2.5$ - $5.0$ X Baseline	14.5	14	9.2	
AP $>2.5$ - $5.0$ X Baseline	6.3	2.6	5.5	

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**Statistical analyses**

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No statistical analyses for this end point

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**Primary: Percentage of participants with system organ class (SOC) AE incidence of  $\geq 4$  participants in one treatment group**

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End point title	Percentage of participants with system organ class (SOC) AE incidence of $\geq 4$ participants in one treatment group
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End point description:

A SOC is the highest level of terminology used to describe disorders of the human body, and distinguishes by either anatomical or physiological systems, disease origin or purpose. SOC AE incidence greater than or equal to 4 in one treatment group are presented. SOC AE incidence which did not achieve this threshold are not reported. SOC are based on MedDRA version 17.0.

End point type	Primary
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End point timeframe:

Up to 14 days following completion of all study therapy (up to Day 42)

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<b>End point values</b>	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	117	116	114	
Units: Percentage of participants				
number (not applicable)				
Blood and lymphatic system disorders	4.3	0.9	5.3	
Cardiac disorders	2.6	3.4	2.6	
Gastrointestinal disorders	18.8	17.2	13.2	
General disorders admin. site conditions	7.7	5.2	3.5	
Infections and infestations	11.1	7.8	7	
Injury, poisoning, procedural complications	4.3	6.9	5.3	
Investigations	11.1	10.3	12.3	
Nervous system disorders	1.7	3.4	4.4	
Psychiatric disorders	3.4	3.4	3.5	
Renal and urinary disorders	1.7	1.7	3.5	
Respiratory, thoracic, mediastinal disorders	1.7	4.3	6.1	
Skin, subcutaneous tissue disorders	4.3	1.7	1.8	
Vascular disorders	2.6	6	6.1	

## Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - Blood, lymph.
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.3
upper limit	5.1

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - Blood, lymph.
Statistical analysis description:	
Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL

Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-4.4
Confidence interval	
level	95 %
sides	2-sided
lower limit	-10.3
upper limit	0.1

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff.-Cardiac disord.
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-5.2
upper limit	5

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. -Cardiac disord.
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	0.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.5
upper limit	6.3

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - GI Disorders
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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	5.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.9
upper limit	15.3

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**Statistical analysis title**

MK-7655 125 mg - Placebo: % Diff. - GI Disorders

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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	4.1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-5.4
upper limit	13.6

---

**Statistical analysis title**

MK-7655 250 mg - Placebo: % Diff. -Gen.dis.&admin.

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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	4.2
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2
upper limit	11

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. -Gen.dis.&admin.
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	1.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.2
upper limit	7.8

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - Infct.&Infst.
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	4.1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.6
upper limit	12

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - Infct.&Infst.
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL

Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	0.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.5
upper limit	8

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. -Inj.Pois.&Proc.
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.3
upper limit	5.1

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. -Inj.Pois.&Proc.
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	1.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-5
upper limit	8.5

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - Investigations
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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1.2
Confidence interval	
level	95 %
sides	2-sided
lower limit	-9.8
upper limit	7.4

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**Statistical analysis title**

MK-7655 125 mg - Placebo: % Diff. - Investigations

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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1.9
Confidence interval	
level	95 %
sides	2-sided
lower limit	-10.5
upper limit	6.5

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**Statistical analysis title**

MK-7655 250 mg - Placebo: % Diff. - Nerv.Sys.Dis.

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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-2.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	-8.4
upper limit	2.2

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - Nerv.Sys.Dis.
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-0.9
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.9
upper limit	4.7

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - Psych. Disord.
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-0.1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-5.7
upper limit	5.4

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - Psych. Disord.
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-0.1

Confidence interval	
level	95 %
sides	2-sided
lower limit	-5.7
upper limit	5.5

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - Renal & Urin.
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	Placebo + IPM/CIL v MK-7655 250 mg + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.2
upper limit	3

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - Renal & Urin.
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.2
upper limit	3

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff.- Resp. & Chest
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Statistical analysis description:

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
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Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-4.4
Confidence interval	
level	95 %
sides	2-sided
lower limit	-10.7
upper limit	0.7

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff.- Resp. & Chest
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-1.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-8.4
upper limit	4.4

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: % Diff. - Skin & Subcut.
Statistical analysis description: Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	2.5
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.4
upper limit	8.1

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: % Diff. - Skin & Subcut.
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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.7
upper limit	4.5

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**Statistical analysis title**

MK-7655 250 mg - Placebo: % Diff. - Vascular Dis.

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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	231
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-3.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-9.9
upper limit	2

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**Statistical analysis title**

MK-7655 125 mg - Placebo: % Diff. - Vascular Dis.

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**Statistical analysis description:**

Difference in percentage based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	230
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Percentage Difference
Point estimate	-0.1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.9
upper limit	6.6

**Secondary: Percentage of participants with a favorable clinical response at completion of IV study therapy in participants who have imipenem-resistant, gram-negative cIAI infections.**

End point title	Percentage of participants with a favorable clinical response at completion of IV study therapy in participants who have imipenem-resistant, gram-negative cIAI infections.
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End point description:

A favorable clinical response is assessed by the clinical investigator as a cure, and is defined as a situation where all or most pre-therapy signs and symptoms of the index infection have resolved, or returned to pre-infection status, and no additional antibiotic therapy is required. The ME population was analyzed, defined as participants who: (1) met the protocol definition of cIAI; (2) had a pre-study/post operative culture from the site of infection grew at least one Gram-negative enteric and/or anaerobic pathogen; (3) had no significant deviations from the protocol that could impact the efficacy assessment; (4) received  $\geq 96$  hours of IV study therapy; and (5) had imipenem-resistant, gram negative cIAI infections.

End point type	Secondary
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End point timeframe:

4 to 14 days post initiation of IV study therapy (up to postrandomization Day 14).

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	14 <sup>[9]</sup>	9 <sup>[10]</sup>	11 <sup>[11]</sup>	
Units: Percentage of participants				
number (confidence interval 95%)	100 (76.8 to 100)	100 (66.4 to 100)	100 (71.5 to 100)	

Notes:

[9] - Had imipenem-resistant, gram negative cIAI infections.

[10] - Had imipenem-resistant, gram negative cIAI infections.

[11] - Had imipenem-resistant, gram negative cIAI infections.

**Statistical analyses**

Statistical analysis title	MK-7655 250 mg - Placebo: Treatment Difference
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	25
Analysis specification	Pre-specified
Analysis type	superiority
P-value	> 0.999
Method	Fisher exact
Parameter estimate	Percentage Difference
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	0
upper limit	0

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	20
Analysis specification	Pre-specified
Analysis type	superiority
P-value	> 0.999
Method	Fisher exact
Parameter estimate	Percentage Difference
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	0
upper limit	0

## Secondary: Percentage of participants with a favorable clinical response at early follow-up

End point title	Percentage of participants with a favorable clinical response at early follow-up
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End point description:

A favorable clinical response is assessed by the clinical investigator as a cure, and is defined as a situation where all or most pre-therapy signs and symptoms of the index infection have resolved, or returned to pre-infection status, and no additional antibiotic therapy is required. The ME population was analyzed, defined as participants who: (1) met the protocol definition of cIAI; (2) had a pre-study/post operative culture from the site of infection grew at least one Gram-negative enteric and/or anaerobic pathogen; (3) had no significant deviations from the protocol that could impact the efficacy assessment; and (4) received  $\geq$  96 hours of IV study therapy.

End point type	Secondary
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End point timeframe:

Up to 9 days following completion of all study therapy

<b>End point values</b>	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	79	86	81	
Units: Percentage of participants				
number (confidence interval 95%)	94.9 (87.5 to 98.6)	94.2 (87 to 98.1)	96.3 (89.6 to 99.2)	

## Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: Treatment Difference
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**Statistical analysis description:**

Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	160
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	-1.4
Confidence interval	
level	95 %
sides	2-sided
lower limit	-9.1
upper limit	6

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**Statistical analysis title**

MK-7655 125 mg - Placebo: Treatment Difference

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**Statistical analysis description:**

Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	167
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.002
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	-2.1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-9.7
upper limit	5.3

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**Secondary: Percentage of participants with a favorable microbiological response at completion of IV study therapy**

End point title	Percentage of participants with a favorable microbiological response at completion of IV study therapy
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**End point description:**

A favorable microbiological response is assessed by the clinical investigator, and is defined as the eradication or presumptive eradication of all bacterial pathogens identified at baseline. The ME population was analyzed, defined as participants who: (1) met the protocol definition of cIAI; (2) had a pre-study/post operative culture from the site of infection grew at least one Gram-negative enteric and/or anaerobic pathogen; (3) had no significant deviations from the protocol that could impact the efficacy assessment; and (4) received  $\geq 96$  hours of IV study therapy.

End point type	Secondary
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**End point timeframe:**

Up to 14 days post-initiation of IV study therapy (up to postrandomization Day 14)



<b>End point values</b>	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	83	86	84	
Units: Percentage of participants				
number (confidence interval 95%)	97.6 (91.6 to 99.7)	100 (95.8 to 100)	97.6 (91.7 to 99.7)	

## Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: Treatment Difference
Statistical analysis description:	
Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification. Two participants with indeterminate or missing response were excluded from the analysis.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	167
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	< 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.3
upper limit	6.2

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
Statistical analysis description:	
Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification. Two participants with indeterminate or missing response were excluded from the analysis.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	170
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	< 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	2.4

Confidence interval	
level	95 %
sides	2-sided
lower limit	-2
upper limit	8.3

## Secondary: Percentage of participants with a favorable microbiological response at early follow-up

End point title	Percentage of participants with a favorable microbiological response at early follow-up
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End point description:

A favorable microbiological response is assessed by the clinical investigator, and is defined as the eradication or presumptive eradication of all bacterial pathogens identified at baseline. The ME population was analyzed, defined as participants who: (1) met the protocol definition of cIAI; (2) had a pre-study/post operative culture from the site of infection grew at least one Gram-negative enteric and/or anaerobic pathogen; (3) had no significant deviations from the protocol that could impact the efficacy assessment; and (4) received  $\geq 96$  hours of IV study therapy.

End point type	Secondary
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End point timeframe:

Up to 9 days following completion of all study therapy

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	78	82	80	
Units: Percentage of participants				
number (confidence interval 95%)	97.4 (91 to 99.7)	97.6 (91.5 to 99.7)	97.5 (91.3 to 99.7)	

## Statistical analyses

Statistical analysis title	MK-7655 250 mg - Placebo: Treatment Difference
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Statistical analysis description:

Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification. Eight participants with indeterminate or missing response were excluded from the analysis.

Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	158
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	< 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	-0.1

Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.7
upper limit	6.4

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
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Statistical analysis description:

Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification. Eight participants with indeterminate or missing response were excluded from the analysis.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	162
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	< 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	0.1
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.3
upper limit	6.5

## Secondary: Percentage of participants with a favorable clinical response at late follow-up

End point title	Percentage of participants with a favorable clinical response at late follow-up
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End point description:

A favorable clinical response is assessed by the clinical investigator as a cure, and is defined as a situation where all or most pre-therapy signs and symptoms of the index infection have resolved, or returned to pre-infection status, and no additional antibiotic therapy is required. The ME population was analyzed, defined as participants who: (1) met the protocol definition of cIAI; (2) had a pre-study/post operative culture from the site of infection grew at least one Gram-negative enteric and/or anaerobic pathogen; (3) had no significant deviations from the protocol that could impact the efficacy assessment; and (4) received  $\geq$  96 hours of IV study therapy.

End point type	Secondary
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End point timeframe:

Up to 42 days following completion of all study therapy

<b>End point values</b>	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	79	85	79	
Units: Percentage of participants				
number (confidence interval 95%)	93.7 (85.8 to 97.9)	95.3 (88.4 to 98.7)	94.9 (87.5 to 98.6)	

## Statistical analyses

<b>Statistical analysis title</b>	MK-7655 250 mg - Placebo: Treatment Difference
Statistical analysis description:	
Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	158
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.002
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	-1.3
Confidence interval	
level	95 %
sides	2-sided
lower limit	-9.6
upper limit	6.9

<b>Statistical analysis title</b>	MK-7655 125 mg - Placebo: Treatment Difference
Statistical analysis description:	
Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification.	
Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	164
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	< 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	0.4
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.2
upper limit	8.2

## Secondary: Percentage of participants with a favorable microbiological response at late follow-up

End point title	Percentage of participants with a favorable microbiological response at late follow-up
End point description: A favorable microbiological response is assessed by the clinical investigator, and is defined as the eradication or presumptive eradication of all bacterial pathogens identified at baseline. The ME population was analyzed, defined as participants who: (1) met the protocol definition of cIAI; (2) had a pre-study/post operative culture from the site of infection grew at least one Gram-negative enteric and/or anaerobic pathogen; (3) had no significant deviations from the protocol that could impact the efficacy assessment; and (4) received $\geq 96$ hours of IV study therapy.	
End point type	Secondary
End point timeframe: Up to 42 days following completion of all study therapy	

End point values	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	78	81	78	
Units: Percentage of participants				
number (confidence interval 95%)	96.2 (89.2 to 99.2)	97.5 (91.4 to 99.7)	96.2 (89.2 to 99.2)	

## Statistical analyses

Statistical analysis title	MK-7655 250 mg - Placebo: Treatment Difference
Statistical analysis description: Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without stratification. Eight participants with indeterminate or missing response were excluded from the analysis.	
Comparison groups	MK-7655 250 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	156
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	< 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7.4
upper limit	7.4

Statistical analysis title	MK-7655 125 mg - Placebo: Treatment Difference
Statistical analysis description: Non-inferiority test based on unconditional asymptotic Miettinen and Nurminen method without	

stratification. Eight participants with indeterminate or missing response were excluded from the analysis.

Comparison groups	MK-7655 125 mg + IPM/CIL v Placebo + IPM/CIL
Number of subjects included in analysis	159
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	< 0.001
Method	Miettinen and Nurminen
Parameter estimate	Percentage Difference
Point estimate	1.4
Confidence interval	
level	95 %
sides	2-sided
lower limit	-5.2
upper limit	8.6

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

During study therapy and up to 14 days following end of study therapy (up to Day 42).

Adverse event reporting additional description:

Population analyzed is all randomized participants who received at least one dose of IV study therapy.

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	17.0
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### Reporting groups

Reporting group title	MK-7655 250 mg + IPM/CIL
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Reporting group description:

MK-7655 250 mg and imipenem/cilastatin (IPM/CIL) 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.

Reporting group title	MK-7655 125 mg + IPM/CIL
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Reporting group description:

MK-7655 125 mg and IPM/CIL 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.

Reporting group title	Placebo + IPM/CIL
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Reporting group description:

Placebo for MK-7655 and IPM/CIL 500 mg were administered by IV separately, and concurrently over a 30-minute interval, every 6 hours for a minimum of 96 hours.

Serious adverse events	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL
Total subjects affected by serious adverse events			
subjects affected / exposed	4 / 117 (3.42%)	11 / 116 (9.48%)	8 / 114 (7.02%)
number of deaths (all causes)	0	3	0
number of deaths resulting from adverse events	0	3	0
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Benign gastrointestinal neoplasm			
subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Mucinous adenocarcinoma of appendix			
subjects affected / exposed	0 / 117 (0.00%)	0 / 116 (0.00%)	1 / 114 (0.88%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Injury, poisoning and procedural complications			

Post procedural bile leak subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Procedural pain subjects affected / exposed	0 / 117 (0.00%)	0 / 116 (0.00%)	1 / 114 (0.88%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Wound dehiscence subjects affected / exposed	0 / 117 (0.00%)	0 / 116 (0.00%)	1 / 114 (0.88%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Wound evisceration subjects affected / exposed	1 / 117 (0.85%)	0 / 116 (0.00%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Cardiac disorders Cardiac failure chronic subjects affected / exposed	1 / 117 (0.85%)	0 / 116 (0.00%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Cardiac failure congestive subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Ventricular fibrillation subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	1 / 1	0 / 0
Nervous system disorders Cerebrovascular accident subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0



Blood and lymphatic system disorders			
Thrombocytosis			
subjects affected / exposed	0 / 117 (0.00%)	0 / 116 (0.00%)	1 / 114 (0.88%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			
Diarrhoea			
subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Ileus paralytic			
subjects affected / exposed	1 / 117 (0.85%)	0 / 116 (0.00%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Intestinal infarction			
subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	1 / 1	0 / 0
Small intestinal obstruction			
subjects affected / exposed	0 / 117 (0.00%)	0 / 116 (0.00%)	1 / 114 (0.88%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Hepatobiliary disorders			
Cholelithiasis obstructive			
subjects affected / exposed	0 / 117 (0.00%)	0 / 116 (0.00%)	1 / 114 (0.88%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory, thoracic and mediastinal disorders			
Acute respiratory failure			
subjects affected / exposed	0 / 117 (0.00%)	0 / 116 (0.00%)	1 / 114 (0.88%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Lung consolidation			

subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pleural effusion			
subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pulmonary embolism			
subjects affected / exposed	0 / 117 (0.00%)	0 / 116 (0.00%)	2 / 114 (1.75%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Renal and urinary disorders			
Renal failure acute			
subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Infections and infestations			
Abdominal abscess			
subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	1 / 114 (0.88%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Clostridium difficile infection			
subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Liver abscess			
subjects affected / exposed	1 / 117 (0.85%)	0 / 116 (0.00%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Postoperative wound infection			
subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Septic shock			

subjects affected / exposed	0 / 117 (0.00%)	1 / 116 (0.86%)	0 / 114 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	1 / 1

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

<b>Non-serious adverse events</b>	MK-7655 250 mg + IPM/CIL	MK-7655 125 mg + IPM/CIL	Placebo + IPM/CIL
Total subjects affected by non-serious adverse events			
subjects affected / exposed	16 / 117 (13.68%)	15 / 116 (12.93%)	13 / 114 (11.40%)
Gastrointestinal disorders			
Diarrhoea			
subjects affected / exposed	7 / 117 (5.98%)	6 / 116 (5.17%)	5 / 114 (4.39%)
occurrences (all)	8	6	5
Nausea			
subjects affected / exposed	8 / 117 (6.84%)	9 / 116 (7.76%)	8 / 114 (7.02%)
occurrences (all)	9	9	9
Vomiting			
subjects affected / exposed	7 / 117 (5.98%)	9 / 116 (7.76%)	3 / 114 (2.63%)
occurrences (all)	7	9	3

## **More information**

### **Substantial protocol amendments (globally)**

Were there any global substantial amendments to the protocol? No

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### **Interruptions (globally)**

Were there any global interruptions to the trial? No

### **Limitations and caveats**

None reported