

**Clinical trial results:****A Phase 1b Multicenter, Open-label, Expansion Study to Assess the Safety and Efficacy of AMG 420 in Subjects With Relapsed and/or Refractory Multiple Myeloma****Summary**

EudraCT number	2018-002879-17
Trial protocol	BE ES FR
Global end of trial date	21 April 2022

**Results information**

Result version number	v2 (current)
This version publication date	08 July 2023
First version publication date	14 April 2023
Version creation reason	<ul style="list-style-type: none"><li>• Correction of full data set In main objective of trial: Should be 400 µg/day and and 600 µg/day instead of "mg".</li></ul>

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

Sponsor protocol code	20160370
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**Additional study identifiers**

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT03836053
WHO universal trial number (UTN)	-

Notes:

**Sponsors**

Sponsor organisation name	Amgen Inc.
Sponsor organisation address	One Amgen Center Drive, Thousand Oaks,CA, United States,
Public contact	IHQ Medical Info-Clinical Trials, Amgen (EUROPE) GmbH, medinfo@amgen.com
Scientific contact	IHQ Medical Info-Clinical Trials, Amgen (EUROPE) GmbH, medinfo@amgen.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	21 April 2022
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	21 April 2022
Was the trial ended prematurely?	Yes

Notes:

## General information about the trial

Main objective of the trial:

The main objective of this trial was to establish the safety and tolerability of AMG 420 at dose levels of 400 µg/day and 600 µg/day in participants with relapsed and/or refractory multiple myeloma (RRMM).

Protection of trial subjects:

This study was conducted in accordance with International Council for Harmonisation (ICH) Good Clinical Practice (GCP) regulations/guidelines.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	04 March 2019
Long term follow-up planned	Yes
Long term follow-up rationale	Safety, Efficacy
Long term follow-up duration	5 Years
Independent data monitoring committee (IDMC) involvement?	No

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	United States: 23
Worldwide total number of subjects	23
EEA total number of subjects	0

Notes:

### Subjects enrolled per age group

In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0
Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	14
From 65 to 84 years	9
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details:

This study was conducted at 10 centers in Australia, Belgium, Japan, Switzerland, and the United States from 04 March 2019 to 21 April 2022.

### Pre-assignment

Screening details:

23 participants were enrolled and all 23 of those participants received study drug.

### Period 1

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

### Arms

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	AMG 420 200 µg/day
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Arm description:

28 day continuous intravenous infusion of AMG 420 200 µg/day followed by a 2 week treatment-free interval, until progressive disease (PD) or relapse as defined by International Myeloma Working Group (IMWG) response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation

Arm type	Experimental
Investigational medicinal product name	AMG 420
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

AMG 420 was given as a 28 day continuous intravenous infusion followed by a 2 week treatment-free interval, until PD or relapse as defined by IMWG response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation

<b>Arm title</b>	AMG 420 400 µg/day
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Arm description:

28 day continuous intravenous infusion of AMG 420 400 µg/day followed by a 2 week treatment-free interval, until PD or relapse as defined by IMWG response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation

Arm type	Experimental
Investigational medicinal product name	AMG 420
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

AMG 420 was given as a 28 day continuous intravenous infusion followed by a 2 week treatment-free interval, until PD or relapse as defined by IMWG response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation

<b>Arm title</b>	AMG 420 600 µg/day
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Arm description:

28 day continuous intravenous infusion of AMG 420 600 µg/day followed by a 2 week treatment-free interval, until PD or relapse as defined by IMWG response criteria, unacceptable safety events, next

anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation

Arm type	Experimental
Investigational medicinal product name	AMG 420
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

AMG 420 was given as a 28 day continuous intravenous infusion followed by a 2 week treatment-free interval, until PD or relapse as defined by IMWG response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation

<b>Number of subjects in period 1</b>	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day
Started	1	12	10
Completed	0	2	0
Not completed	1	10	10
Adverse event, serious fatal	1	6	4
Withdrawal of consent from study	-	-	1
Protocol-specified criteria	-	2	1
Decision by sponsor	-	2	4

## Baseline characteristics

### Reporting groups

Reporting group title	AMG 420 200 µg/day
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Reporting group description:

28 day continuous intravenous infusion of AMG 420 200 µg/day followed by a 2 week treatment-free interval, until progressive disease (PD) or relapse as defined by International Myeloma Working Group (IMWG) response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation

Reporting group title	AMG 420 400 µg/day
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Reporting group description:

28 day continuous intravenous infusion of AMG 420 400 µg/day followed by a 2 week treatment-free interval, until PD or relapse as defined by IMWG response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation

Reporting group title	AMG 420 600 µg/day
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Reporting group description:

28 day continuous intravenous infusion of AMG 420 600 µg/day followed by a 2 week treatment-free interval, until PD or relapse as defined by IMWG response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation

Reporting group values	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day
Number of subjects	1	12	10
Age categorical			
Units: Subjects			
Adults (18-64 years)	1	6	7
From 65-84 years	0	6	3
85 years and over	0	0	0
Age Continuous			
99999 = No data presented because there was only 1 participant analyzed.			
Units: years			
arithmetic mean	49.0	64.7	60.8
standard deviation	± 99999	± 6.7	± 11.7
Sex: Female, Male			
Units: participants			
Female	1	3	5
Male	0	9	5
Ethnicity (NIH/OMB)			
Units: Subjects			
Hispanic or Latino	0	0	0
Not Hispanic or Latino	1	12	10
Unknown or Not Reported	0	0	0
Race (NIH/OMB)			
Units: Subjects			
American Indian or Alaska Native	0	0	0
Asian	1	0	0
Native Hawaiian or Other Pacific Islander	0	0	0
Black or African American	0	2	3
White	0	10	7
More than one race	0	0	0
Unknown or Not Reported	0	0	0

<b>Reporting group values</b>	Total		
Number of subjects	23		
Age categorical Units: Subjects			
Adults (18-64 years)	14		
From 65-84 years	9		
85 years and over	0		
Age Continuous			
99999 = No data presented because there was only 1 participant analyzed.			
Units: years arithmetic mean standard deviation	-		
Sex: Female, Male Units: participants			
Female	9		
Male	14		
Ethnicity (NIH/OMB) Units: Subjects			
Hispanic or Latino	0		
Not Hispanic or Latino	23		
Unknown or Not Reported	0		
Race (NIH/OMB) Units: Subjects			
American Indian or Alaska Native	0		
Asian	1		
Native Hawaiian or Other Pacific Islander	0		
Black or African American	5		
White	17		
More than one race	0		
Unknown or Not Reported	0		

## End points

### End points reporting groups

Reporting group title	AMG 420 200 µg/day
Reporting group description: 28 day continuous intravenous infusion of AMG 420 200 µg/day followed by a 2 week treatment-free interval, until progressive disease (PD) or relapse as defined by International Myeloma Working Group (IMWG) response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation	
Reporting group title	AMG 420 400 µg/day
Reporting group description: 28 day continuous intravenous infusion of AMG 420 400 µg/day followed by a 2 week treatment-free interval, until PD or relapse as defined by IMWG response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation	
Reporting group title	AMG 420 600 µg/day
Reporting group description: 28 day continuous intravenous infusion of AMG 420 600 µg/day followed by a 2 week treatment-free interval, until PD or relapse as defined by IMWG response criteria, unacceptable safety events, next anti-multiple myeloma treatment, or other reason for permanent treatment discontinuation	

### Primary: Number of Participants With Dose-limiting Toxicities (DLTs)

End point title	Number of Participants With Dose-limiting Toxicities (DLTs) <sup>[1]</sup>
End point description: DLTs were graded using Common Terminology Criteria for Adverse Events (CTCAE) v5.0, with the exception of cytokine release syndrome (CRS) and tumor lysis syndrome (TLS), which graded using the criteria referenced in the publication by Lee et al, 2014 and the Cairo Bishop criteria referenced in the publication by Coiffier et al, 2008 respectively.  DLT evaluation analysis set includes participants who completed the DLT evaluable period or experienced a DLT any time during the DLT evaluable period.	
End point type	Primary
End point timeframe: Day 1 to Week 4	
Notes: [1] - 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: No statistical analysis was planned for this end point.	

End point values	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	1	11	8	
Units: Participants	1	1	0	

### Statistical analyses

No statistical analyses for this end point

### Primary: Number of Participants Who Experienced a Treatment-emergent Adverse Event (TEAE)

End point title	Number of Participants Who Experienced a Treatment-emergent Adverse Event (TEAE) <sup>[2]</sup>
End point description: The severity of TEAEs were graded using the CTCAE version 5.0 with the exception of CRS and TLS, which graded using the criteria referenced in the publication by Lee et al, 2014 and the Cairo Bishop criteria referenced in the publication by Coiffier et al, 2008. Any clinically significant changes in vital signs, electrocardiograms (ECGs) and clinical laboratory tests were recorded as TEAEs.	
End point type	Primary
End point timeframe: Up to approximately 3 years	

Notes:

[2] - 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: No statistical analysis was planned for this end point.

End point values	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	1	12	10	
Units: Participants	1	12	10	

## Statistical analyses

No statistical analyses for this end point

## Primary: Number of Participants Who Experiences a Treatment-related TEAE

End point title	Number of Participants Who Experiences a Treatment-related TEAE <sup>[3]</sup>
End point description: The severity of treatment-related TEAEs were graded using the CTCAE version 5.0 with the exception of CRS and TLS, which graded using the criteria referenced in the publication by Lee et al, 2014 and the Cairo Bishop criteria referenced in the publication by Coiffier et al, 2008.	
End point type	Primary
End point timeframe: Up to approximately 3 years	

Notes:

[3] - 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: No statistical analysis was planned for this end point.

End point values	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	1	12	10	
Units: Participants	1	12	9	

## Statistical analyses

No statistical analyses for this end point

## Secondary: Overall Response Rate (ORR)

End point title Overall Response Rate (ORR)

End point description:

ORR was defined as the percentage of participants for whom the best overall response was a stringent complete response (CR), CR, very good partial response (PR), or partial response as determined by the IMWG Uniform Response Criteria. The ORR along with the associated 95% exact binomial confidence interval (Clopper Pearson Method) was determined.

End point type Secondary

End point timeframe:

Up to approximately 3 years

End point values	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	1	12	10	
Units: Percentage of Participants				
number (confidence interval 95%)	0 (0.00 to 97.50)	41.7 (15.17 to 72.33)	30.0 (6.67 to 65.25)	

## Statistical analyses

No statistical analyses for this end point

## Secondary: Duration of Response (DOR)

End point title Duration of Response (DOR)

End point description:

DOR was defined as number of months between first objective response to progressive disease or death (due to any cause), whichever occurred first. DOR was only calculated for participants who experienced a best overall response of PR or better.

Kaplan-Meier methods were used to estimate the distribution of DOR. The median and corresponding two-sided 95% confidence intervals were calculated.

End point type Secondary

End point timeframe:

Up to approximately 3 years

End point values	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	0 <sup>[4]</sup>	5	3	
Units: Months				
median (confidence interval 95%)	( to )	5.49 (1.41 to 99999)	99999 (1.45 to 99999)	

Notes:

[4] - No participants with a response to measure

## Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With Minimal Residual Disease (MRD) Negativity Response at CR

End point title	Percentage of Participants With Minimal Residual Disease (MRD) Negativity Response at CR
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End point description:

MRD negativity at CR or better assessed by using the IMWG criteria.

Percentage of MRD negative responders at CR along with exact 2- sided 95% were provided by using the Clopper Pearson method.

End point type	Secondary
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End point timeframe:

Up to approximately 3 years

End point values	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	1	12	10	
Units: Percentage of participants				
number (confidence interval 95%)	0.0 (0.0 to 97.50)	8.3 (0.21 to 38.48)	10.0 (0.25 to 44.50)	

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Up to approximately 3 years

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	25.0
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### Reporting groups

Reporting group title	AMG 420 200 µg/day
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Reporting group description: -

Reporting group title	AMG 420 400 µg/day
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Reporting group description: -

Reporting group title	AMG 420 600 µg/day
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Reporting group description: -

Reporting group title	Total
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Reporting group description: -

<b>Serious adverse events</b>	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day
Total subjects affected by serious adverse events			
subjects affected / exposed	1 / 1 (100.00%)	10 / 12 (83.33%)	8 / 10 (80.00%)
number of deaths (all causes)	1	6	4
number of deaths resulting from adverse events			
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Plasmacytoma			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 1	0 / 0
Plasma cell myeloma			
subjects affected / exposed	1 / 1 (100.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 1	0 / 0	0 / 0
Injury, poisoning and procedural complications			
Subdural haematoma			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 1

Vascular disorders			
Hypotension			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Nervous system disorders			
Presyncope			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (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
Headache			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences causally related to treatment / all	0 / 0	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
General disorders and administration site conditions			
Fatigue			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (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
Disease progression			
subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	0 / 10 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 2	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 2	0 / 0
Asthenia			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences causally related to treatment / all	0 / 0	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pyrexia			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	2 / 10 (20.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Immune system disorders			
Cytokine release syndrome			

subjects affected / exposed	0 / 1 (0.00%)	5 / 12 (41.67%)	3 / 10 (30.00%)
occurrences causally related to treatment / all	0 / 0	9 / 11	3 / 3
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Musculoskeletal and connective tissue disorders</b>			
<b>Myalgia</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (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
<b>Infections and infestations</b>			
<b>Device related infection</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (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
<b>Influenza</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Infusion site infection</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (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
<b>Bacteraemia</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Staphylococcal sepsis</b>			
subjects affected / exposed	1 / 1 (100.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Staphylococcal bacteraemia</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (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

Sepsis			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Metabolism and nutrition disorders			
Dehydration			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

<b>Serious adverse events</b>	Total		
Total subjects affected by serious adverse events			
subjects affected / exposed	19 / 23 (82.61%)		
number of deaths (all causes)	11		
number of deaths resulting from adverse events			
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Plasmacytoma			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 1		
Plasma cell myeloma			
subjects affected / exposed	3 / 23 (13.04%)		
occurrences causally related to treatment / all	0 / 3		
deaths causally related to treatment / all	0 / 1		
Injury, poisoning and procedural complications			
Subdural haematoma			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 1		
Vascular disorders			
Hypotension			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Nervous system disorders			

Presyncope			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Headache			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
General disorders and administration site conditions			
Fatigue			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Disease progression			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences causally related to treatment / all	0 / 2		
deaths causally related to treatment / all	0 / 2		
Asthenia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
Pyrexia			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences causally related to treatment / all	1 / 2		
deaths causally related to treatment / all	0 / 0		
Immune system disorders			
Cytokine release syndrome			
subjects affected / exposed	8 / 23 (34.78%)		
occurrences causally related to treatment / all	12 / 14		
deaths causally related to treatment / all	0 / 0		
Musculoskeletal and connective tissue disorders			
Myalgia			

subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
<b>Infections and infestations</b>			
<b>Device related infection</b>			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
<b>Influenza</b>			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
<b>Infusion site infection</b>			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
<b>Bacteraemia</b>			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences causally related to treatment / all	0 / 2		
deaths causally related to treatment / all	0 / 0		
<b>Staphylococcal sepsis</b>			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences causally related to treatment / all	1 / 3		
deaths causally related to treatment / all	0 / 0		
<b>Staphylococcal bacteraemia</b>			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
<b>Sepsis</b>			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
<b>Metabolism and nutrition disorders</b>			

Dehydration			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		

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

<b>Non-serious adverse events</b>	AMG 420 200 µg/day	AMG 420 400 µg/day	AMG 420 600 µg/day
Total subjects affected by non-serious adverse events			
subjects affected / exposed	1 / 1 (100.00%)	12 / 12 (100.00%)	10 / 10 (100.00%)
<b>Vascular disorders</b>			
Hypotension			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	2 / 10 (20.00%)
occurrences (all)	0	2	4
Hypertension			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	4	1
<b>General disorders and administration site conditions</b>			
Chest discomfort			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Oedema peripheral			
subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	3 / 10 (30.00%)
occurrences (all)	0	3	3
Malaise			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Pyrexia			
subjects affected / exposed	0 / 1 (0.00%)	6 / 12 (50.00%)	6 / 10 (60.00%)
occurrences (all)	0	9	13
Ulcer			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Hypothermia			

subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Fatigue			
subjects affected / exposed	0 / 1 (0.00%)	5 / 12 (41.67%)	6 / 10 (60.00%)
occurrences (all)	0	7	8
Chills			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Chest pain			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Oedema			
subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	0 / 10 (0.00%)
occurrences (all)	0	3	0
Peripheral swelling			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Immune system disorders			
Cytokine release syndrome			
subjects affected / exposed	1 / 1 (100.00%)	9 / 12 (75.00%)	7 / 10 (70.00%)
occurrences (all)	2	28	20
Respiratory, thoracic and mediastinal disorders			
Cough			
subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	2 / 10 (20.00%)
occurrences (all)	0	5	3
Dyspnoea			
subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	2 / 10 (20.00%)
occurrences (all)	0	3	2
Epistaxis			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	2 / 10 (20.00%)
occurrences (all)	0	0	2
Hypoxia			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	2	0
Nasal congestion			

subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	1	1
Oropharyngeal pain			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Respiratory alkalosis			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Rhinorrhoea			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Sinus congestion			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	2 / 10 (20.00%)
occurrences (all)	0	1	2
Wheezing			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Psychiatric disorders			
Substance abuse			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Confusional state			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Disorientation			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Insomnia			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Nervousness			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Investigations			
Activated partial thromboplastin time prolonged			

subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Blood creatine increased			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Blood creatinine increased			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	2	0
Blood fibrinogen increased			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
C-reactive protein increased			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	3	1
Carbon dioxide decreased			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Electrocardiogram T wave abnormal			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	1	1
White blood cell count decreased			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	1	2
Fibrin D dimer increased			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	2 / 10 (20.00%)
occurrences (all)	0	0	5
Immature granulocyte count increased			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Lipase increased			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Lymphocyte count decreased			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	2	1

Neutrophil count decreased subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 8	0 / 10 (0.00%) 0
Nitrite urine present subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 1
Platelet count decreased subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	2 / 12 (16.67%) 5	1 / 10 (10.00%) 5
Protein total increased subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 2
Weight decreased subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	2 / 12 (16.67%) 2	2 / 10 (20.00%) 2
Weight increased subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Injury, poisoning and procedural complications			
Fall subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 3
Fibula fracture subjects affected / exposed occurrences (all)	1 / 1 (100.00%) 1	0 / 12 (0.00%) 0	0 / 10 (0.00%) 0
Skin laceration subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Sternal fracture subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Cardiac disorders			
Atrial fibrillation subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 1
Tachycardia			

subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Sinus tachycardia			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	1	1
<b>Nervous system disorders</b>			
<b>Aphasia</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	3
<b>Carpal tunnel syndrome</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
<b>Dizziness</b>			
subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	3 / 10 (30.00%)
occurrences (all)	0	2	3
<b>Headache</b>			
subjects affected / exposed	0 / 1 (0.00%)	8 / 12 (66.67%)	4 / 10 (40.00%)
occurrences (all)	0	16	9
<b>Neuralgia</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
<b>Peripheral sensory neuropathy</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	6
<b>Presyncope</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
<b>Seizure</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
<b>Sinus headache</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
<b>Tremor</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	1	1

Dysgeusia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 2
<b>Blood and lymphatic system disorders</b>			
Anaemia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	4 / 12 (33.33%) 8	4 / 10 (40.00%) 7
Leukocyte vacuolisation subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	2 / 10 (20.00%) 3
Leukocytosis subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 1
Thrombocytopenia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	3 / 10 (30.00%) 3
Leukopenia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	2 / 10 (20.00%) 4
Lymphopenia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Neutropenia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	2 / 12 (16.67%) 2	3 / 10 (30.00%) 10
Neutrophilia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	2 / 10 (20.00%) 2
Hyperfibrinogenaemia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 2	0 / 10 (0.00%) 0
<b>Eye disorders</b>			
Vision blurred subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	1 / 10 (10.00%) 1
Diplopia			

subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Cataract subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Conjunctival haemorrhage subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 1
Gastrointestinal disorders			
Mouth haemorrhage subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 1
Nausea subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	5 / 12 (41.67%) 6	3 / 10 (30.00%) 6
Oral pain subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 1
Stomatitis subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 2	0 / 10 (0.00%) 0
Vomiting subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	2 / 10 (20.00%) 2
Lip dry subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 1
Gastrooesophageal reflux disease subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Dyspepsia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	2 / 10 (20.00%) 2
Diarrhoea subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	2 / 12 (16.67%) 3	2 / 10 (20.00%) 4

Constipation subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	3 / 12 (25.00%) 3	5 / 10 (50.00%) 6
Abdominal pain subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	2 / 10 (20.00%) 2
Hepatobiliary disorders Hypertransaminasaemia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 2	0 / 10 (0.00%) 0
Skin and subcutaneous tissue disorders Pruritus subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	2 / 10 (20.00%) 3
Rash subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	0 / 12 (0.00%) 0	1 / 10 (10.00%) 2
Rash maculo-papular subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Skin exfoliation subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	2 / 10 (20.00%) 3
Dry skin subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Renal and urinary disorders Pollakiuria subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	1 / 12 (8.33%) 1	0 / 10 (0.00%) 0
Musculoskeletal and connective tissue disorders Arthralgia subjects affected / exposed occurrences (all)	0 / 1 (0.00%) 0	2 / 12 (16.67%) 4	3 / 10 (30.00%) 4
Arthritis			

subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
<b>Back pain</b>			
subjects affected / exposed	0 / 1 (0.00%)	3 / 12 (25.00%)	2 / 10 (20.00%)
occurrences (all)	0	3	3
<b>Bone pain</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
<b>Muscle spasms</b>			
subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	2 / 10 (20.00%)
occurrences (all)	0	2	2
<b>Muscular weakness</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
<b>Musculoskeletal chest pain</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
<b>Myalgia</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
<b>Neck pain</b>			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	2	1
<b>Pain in extremity</b>			
subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	2 / 10 (20.00%)
occurrences (all)	0	2	2
<b>Rheumatoid arthritis</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
<b>Synovial cyst</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
<b>Infections and infestations</b>			
<b>Rhinitis</b>			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1

Oral candidiasis			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	2 / 10 (20.00%)
occurrences (all)	0	0	2
Nasopharyngitis			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Metapneumovirus infection			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Clostridium difficile colitis			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Bronchitis			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Rhinovirus infection			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	2 / 10 (20.00%)
occurrences (all)	0	2	2
Sinusitis			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Staphylococcal sepsis			
subjects affected / exposed	1 / 1 (100.00%)	0 / 12 (0.00%)	0 / 10 (0.00%)
occurrences (all)	1	0	0
Upper respiratory tract infection			
subjects affected / exposed	0 / 1 (0.00%)	4 / 12 (33.33%)	1 / 10 (10.00%)
occurrences (all)	0	4	1
Urinary tract infection			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Urinary tract infection bacterial			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	2
Viral upper respiratory tract infection			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1

Metabolism and nutrition disorders			
Alkalosis			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Dehydration			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	1 / 10 (10.00%)
occurrences (all)	0	1	1
Gout			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Hypercalcaemia			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Hypoalbuminaemia			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Hypocalcaemia			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Hypoglycaemia			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	0 / 10 (0.00%)
occurrences (all)	0	1	0
Decreased appetite			
subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	3 / 10 (30.00%)
occurrences (all)	0	2	3
Iron deficiency			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	2
Hypokalaemia			
subjects affected / exposed	0 / 1 (0.00%)	1 / 12 (8.33%)	4 / 10 (40.00%)
occurrences (all)	0	1	9
Hypomagnesaemia			
subjects affected / exposed	0 / 1 (0.00%)	0 / 12 (0.00%)	1 / 10 (10.00%)
occurrences (all)	0	0	1
Hypophosphataemia			

subjects affected / exposed	0 / 1 (0.00%)	2 / 12 (16.67%)	4 / 10 (40.00%)
occurrences (all)	0	2	7

<b>Non-serious adverse events</b>	Total		
Total subjects affected by non-serious adverse events			
subjects affected / exposed	23 / 23 (100.00%)		
<b>Vascular disorders</b>			
Hypotension			
subjects affected / exposed	3 / 23 (13.04%)		
occurrences (all)	6		
Hypertension			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	5		
<b>General disorders and administration site conditions</b>			
Chest discomfort			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Oedema peripheral			
subjects affected / exposed	5 / 23 (21.74%)		
occurrences (all)	6		
Malaise			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Pyrexia			
subjects affected / exposed	12 / 23 (52.17%)		
occurrences (all)	22		
Ulcer			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Hypothermia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Fatigue			
subjects affected / exposed	11 / 23 (47.83%)		
occurrences (all)	15		
Chills			

subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Chest pain subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Oedema subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 3		
Peripheral swelling subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Immune system disorders Cytokine release syndrome subjects affected / exposed occurrences (all)	17 / 23 (73.91%) 50		
Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all)	4 / 23 (17.39%) 8		
Dyspnoea subjects affected / exposed occurrences (all)	4 / 23 (17.39%) 5		
Epistaxis subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 2		
Hypoxia subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 2		
Nasal congestion subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 2		
Oropharyngeal pain subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Respiratory alkalosis			

subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Rhinorrhoea subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Sinus congestion subjects affected / exposed occurrences (all)	3 / 23 (13.04%) 3		
Wheezing subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Psychiatric disorders Substance abuse subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Confusional state subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Disorientation subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Insomnia subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Nervousness subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Investigations Activated partial thromboplastin time prolonged subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Blood creatine increased subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Blood creatinine increased			

subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	2		
Blood fibrinogen increased			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
C-reactive protein increased			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	4		
Carbon dioxide decreased			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Electrocardiogram T wave abnormal			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	2		
White blood cell count decreased			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	3		
Fibrin D dimer increased			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	5		
Immature granulocyte count increased			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Lipase increased			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Lymphocyte count decreased			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	3		
Neutrophil count decreased			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	8		
Nitrite urine present			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		

Platelet count decreased subjects affected / exposed occurrences (all)	3 / 23 (13.04%) 10		
Protein total increased subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 2		
Weight decreased subjects affected / exposed occurrences (all)	4 / 23 (17.39%) 4		
Weight increased subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Injury, poisoning and procedural complications			
Fall subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 3		
Fibula fracture subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Skin laceration subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Sternal fracture subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Cardiac disorders			
Atrial fibrillation subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Tachycardia subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Sinus tachycardia subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 2		
Nervous system disorders			

Aphasia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	3		
Carpal tunnel syndrome			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Dizziness			
subjects affected / exposed	5 / 23 (21.74%)		
occurrences (all)	5		
Headache			
subjects affected / exposed	12 / 23 (52.17%)		
occurrences (all)	25		
Neuralgia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Peripheral sensory neuropathy			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	6		
Presyncope			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Seizure			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Sinus headache			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Tremor			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	2		
Dysgeusia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	2		
Blood and lymphatic system disorders			
Anaemia			

subjects affected / exposed occurrences (all)	8 / 23 (34.78%) 15		
Leukocyte vacuolisation subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 3		
Leukocytosis subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Thrombocytopenia subjects affected / exposed occurrences (all)	3 / 23 (13.04%) 3		
Leukopenia subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 4		
Lymphopenia subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Neutropenia subjects affected / exposed occurrences (all)	5 / 23 (21.74%) 12		
Neutrophilia subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 2		
Hyperfibrinogenaemia subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 2		
Eye disorders			
Vision blurred subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 2		
Diplopia subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Cataract subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		

Conjunctival haemorrhage subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
<b>Gastrointestinal disorders</b>			
Mouth haemorrhage subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Nausea subjects affected / exposed occurrences (all)	8 / 23 (34.78%) 12		
Oral pain subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Stomatitis subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 2		
Vomiting subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 2		
Lip dry subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Gastrooesophageal reflux disease subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Dyspepsia subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 2		
Diarrhoea subjects affected / exposed occurrences (all)	4 / 23 (17.39%) 7		
Constipation subjects affected / exposed occurrences (all)	8 / 23 (34.78%) 9		
Abdominal pain			

subjects affected / exposed occurrences (all)	2 / 23 (8.70%) 2		
Hepatobiliary disorders Hypertransaminasaemia subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 2		
Skin and subcutaneous tissue disorders Pruritus subjects affected / exposed occurrences (all)  Rash subjects affected / exposed occurrences (all)  Rash maculo-papular subjects affected / exposed occurrences (all)  Skin exfoliation subjects affected / exposed occurrences (all)  Dry skin subjects affected / exposed occurrences (all)	3 / 23 (13.04%) 4  1 / 23 (4.35%) 2  1 / 23 (4.35%) 1  3 / 23 (13.04%) 4  1 / 23 (4.35%) 1		
Renal and urinary disorders Pollakiuria subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Musculoskeletal and connective tissue disorders Arthralgia subjects affected / exposed occurrences (all)  Arthritis subjects affected / exposed occurrences (all)  Back pain subjects affected / exposed occurrences (all)	5 / 23 (21.74%) 8  1 / 23 (4.35%) 1  5 / 23 (21.74%) 6		

Bone pain			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Muscle spasms			
subjects affected / exposed	4 / 23 (17.39%)		
occurrences (all)	4		
Muscular weakness			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Musculoskeletal chest pain			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Myalgia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Neck pain			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	3		
Pain in extremity			
subjects affected / exposed	4 / 23 (17.39%)		
occurrences (all)	4		
Rheumatoid arthritis			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Synovial cyst			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Infections and infestations			
Rhinitis			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Oral candidiasis			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	2		
Nasopharyngitis			

subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Metapneumovirus infection subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Clostridium difficile colitis subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Bronchitis subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Rhinovirus infection subjects affected / exposed occurrences (all)	3 / 23 (13.04%) 4		
Sinusitis subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Staphylococcal sepsis subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Upper respiratory tract infection subjects affected / exposed occurrences (all)	5 / 23 (21.74%) 5		
Urinary tract infection subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Urinary tract infection bacterial subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 2		
Viral upper respiratory tract infection subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		
Metabolism and nutrition disorders Alkalosis subjects affected / exposed occurrences (all)	1 / 23 (4.35%) 1		

Dehydration			
subjects affected / exposed	2 / 23 (8.70%)		
occurrences (all)	2		
Gout			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Hypercalcaemia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Hypoalbuminaemia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Hypocalcaemia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Hypoglycaemia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Decreased appetite			
subjects affected / exposed	5 / 23 (21.74%)		
occurrences (all)	5		
Iron deficiency			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	2		
Hypokalaemia			
subjects affected / exposed	5 / 23 (21.74%)		
occurrences (all)	10		
Hypomagnesaemia			
subjects affected / exposed	1 / 23 (4.35%)		
occurrences (all)	1		
Hypophosphataemia			
subjects affected / exposed	6 / 23 (26.09%)		
occurrences (all)	9		

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
11 October 2018	The protocol was amended for the following reasons: • DLT criteria was revised to specify the grade and time to resolution for the DLT exceptions of headache, insomnia, and fever. • Removed exclusion for Grade 3 neurological events that improve to Grade 0 or Grade 1 within 14 days from DLT evaluation • Clarification added to indicate mandatory dose interruption for Grade 4 adverse events (AMG 420 related or non-related) and restart after improvement of the toxicity to a specified lower grade. • Incorporated Phase 2 stopping rules that apply to Grade 4 or higher drug-related adverse events, excluding lymphopenia (or reduced lymphocyte counts). • Stopping rules for Phase 2 adjusted to be applied by the DRT after every 20 subjects have had the chance to receive at least 1 cycle of treatment at the determined dose level. • Clarifications/minor corrections for consistency throughout protocol • Clarifications/minor corrections to Schedule of Assessments. • The table of contents and all references are updated accordingly.
12 December 2018	The protocol was amended for the following reasons: • Language added regarding management of patients who develop fevers during treatment with AMG 420.
22 May 2019	The protocol was amended for the following reasons: • Include new phase 1b part 2 combination cohort (AMG 420 + pomalidomide/dexamethasone, maximum 20 additional subjects to be enrolled in this cohort). • Addition of adverse event management guidance for phase 2 study, including dose reduction and discontinuation parameters for discrete event occurring on treatment. • Changes made to clarify guidance on infusion reactions and tumor lysis syndrome. • Adjustment made to platelet count eligibility criteria. • Addition of patient interviews for phase 1b study and patient reported outcome measurement tools to phase 2 study. • Updated timing of imaging assessments for extramedullary disease, providing option for multiple assessments while responders remain on treatment. • Change primary analysis time point.
20 May 2020	The protocol was amended for the following reasons: • Removal of Phase 1b Part 2 (combination cohort) and Phase 2 text globally.
17 September 2021	The protocol was amended for the following reasons: • To put clarifications around delays of treatment cycles in place. To add clarity around treatment free intervals. • To add table for management of COVID infection.

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported