



Clinical trial results: AM-101 in the Post-Acute Treatment of Peripheral Tinnitus 1 (AMPACT1) – an open-label extension to the TACTT2 study

Summary

EudraCT number	2013-005588-24
Trial protocol	CZ
Global end of trial date	19 January 2017

Results information

Result version number	v2 (current)
This version publication date	15 June 2018
First version publication date	25 February 2018
Version creation reason	<ul style="list-style-type: none">• Correction of full data set Data for safety endpoints with "Frequency of Subjects with a Deterioration of Hearing Threshold" have to be corrected.

Trial information

Trial identification

Sponsor protocol code	AM-101-CL-12-03
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Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT01934010
WHO universal trial number (UTN)	-

Notes:

Sponsors

Sponsor organisation name	Auris Medical Inc.
Sponsor organisation address	500 North Michigan Avenue, Suite 600, Chicago, Illinois, United States, 60611
Public contact	Thomas Meyer, Auris Medical Inc., +1 312 396 4150, hear@aurismedical.com
Scientific contact	Thomas Meyer, Auris Medical Inc., +1 312 396 4150, hear@aurismedical.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	23 May 2017
Is this the analysis of the primary completion data?	Yes
Primary completion date	19 January 2017
Global end of trial reached?	Yes
Global end of trial date	19 January 2017
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

The primary objective of the phase 3 open-label extension (OLE) study is the evaluation of the safety and local tolerance of up to 3 quarterly treatment cycles each with 3 repeated doses of AM-101 0.87 mg/mL in subjects previously treated in the scope of the TACTT2 study with either AM-101 0.87 mg/mL or placebo.

A total cumulative observational period of 1 year in subjects with acute persistent peripheral tinnitus who were previously enrolled into and completed TACTT2 was reached.

Subjects who completed TACTT2, could roll-over into treatment cycle 1 of this study (AMPACT1). After completion of treatment cycle 1 they were free to decide if they want to continue with treatment cycle 2. Same for treatment cycle 3.

In total 257 subjects were treated in AMPACT1 of which:

- 114 subjects participated only in the first cycle,
- 67 subjects participated in the first 2 treatment cycles,
- 76 subjects participated in all 3 treatment cycles.

Protection of trial subjects:

This Clinical Trial was conducted in accordance with the study protocol, the International Conference on Harmonisation (ICH) harmonized tripartite guideline on Good Clinical Practices (GCP) (E6), as well as the ethical principles outlined in the Declaration of Helsinki dated 1989, or in their most current version.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	02 June 2014
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	Turkey: 5
Country: Number of subjects enrolled	United States: 156
Country: Number of subjects enrolled	Canada: 24
Country: Number of subjects enrolled	Czech Republic: 53
Country: Number of subjects enrolled	Israel: 3
Country: Number of subjects enrolled	Korea, Republic of: 16
Worldwide total number of subjects	257
EEA total number of subjects	53

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)	231
From 65 to 84 years	26
85 years and over	0

Subject disposition

Recruitment

Recruitment details:

A total of 260 subjects were enrolled and 257 subjects were treated in overall 59 active sites in Canada (6), the United States (35), the Czech Republic (7), Israel (2), Turkey (3) and Republic of South Korea (6).

Subjects could only participate if they had been previously enrolled and completed the participation in the TACTT2 study.

Pre-assignment

Screening details:

Main Inclusion Criteria:

Attendance at final visit FUV3 of TACTT2 study, aged 18 to 75 years, documented persistent subjective peripheral tinnitus following traumatic cochlear injury or otitis media (OM) with onset no longer than 3 months prior to randomization into TACTT2.

Period 1

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

Blinding implementation details:

This study was an open-label extension study subsequent to the previous blinded, placebo controlled, randomized TACTT2 study. This study was requested by the FDA as long-term safety follow-up of repeated AM-101 injection cycles over 1 year.

Arms

Are arms mutually exclusive?	Yes
Arm title	1 Cycle AM-101

Arm description:

Subjects participated in 1 treatment cycle and received one round of 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days (D0 - D4)

Arm type	Experimental
Investigational medicinal product name	Esketamine hydrochloride gel
Investigational medicinal product code	AM-101
Other name	
Pharmaceutical forms	Gel for injection
Routes of administration	Intratympanic use

Dosage and administration details:

Subjects who participated only in treatment cycle 1, received three intratympanic administrations of AM-101 0.87 mg/mL (0.25 mL). In case of eligible bilateral tinnitus, both ears were treated.

Arm title	2 Cycles AM-101
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Arm description:

Subjects that participated in 2 treatment cycles of the AMPACT1 study, received 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days (D0 - D4) in cycle 1 and after final follow-up (D84) of cycle 1, they rolled-over to treatment cycle 2 receiving once more 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days (D84 - D88).

Arm type	Experimental
Investigational medicinal product name	Esketamine hydrochloride gel
Investigational medicinal product code	AM-101
Other name	
Pharmaceutical forms	Gel for injection
Routes of administration	Intratympanic use

Dosage and administration details:

Subjects who participated in 2 treatment cycles, received 1x three intratympanic administrations of AM-101 0.87 mg/mL (0.25 mL) within 5 days and a second time three intratympanic injections of AM-101 0.87 mg/mL within 5 days after FUV3 (D84) of treatment cycle 1.

In case of eligible bilateral tinnitus, both ears were treated.

Arm title	3 Cycles AM-101
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Arm description:

Subjects that participated in all 3 treatment cycles of the AMPACT1 study, received 3 x 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days. The subjects could only roll-over if they completed the final follow-up of the previous cycle and were still eligible.

In cycle 1 treatment was within D0 - D4. Cycle 2 treatment within D84 - D88. And treatment for cycle 3 within D168-D172. Final follow-up after 3 treatment cycles was FUV9 (D252).

Arm type	Experimental
Investigational medicinal product name	Esketamine hydrochloride gel
Investigational medicinal product code	AM-101
Other name	
Pharmaceutical forms	Gel for injection
Routes of administration	Intratympanic use

Dosage and administration details:

Subjects who participated in all three treatment cycles, received 3 times three intratympanic administrations of AM-101 0.87 mg/mL (0.25 mL).

Please refer to arm description for details.

In case of eligible bilateral tinnitus, both ears were treated.

Number of subjects in period 1	1 Cycle AM-101	2 Cycles AM-101	3 Cycles AM-101
Started	114	67	76
Completed	91	56	74
Not completed	23	11	2
Consent withdrawn by subject	15	6	2
Adverse event, non-fatal	1	1	-
Lost to follow-up	7	4	-

Baseline characteristics

Reporting groups

Reporting group title	1 Cycle AM-101
Reporting group description:	
Subjects participated in 1 treatment cycle and received one round of 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days (D0 - D4)	
Reporting group title	2 Cycles AM-101
Reporting group description:	
Subjects that participated in 2 treatment cycles of the AMPACT1 study, received 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days (D0 - D4) in cycle 1 and after final follow-up (D84) of cycle 1, they rolled-over to treatment cycle 2 receiving once more 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days (D84 - D88).	
Reporting group title	3 Cycles AM-101
Reporting group description:	
Subjects that participated in all 3 treatment cycles of the AMPACT1 study, received 3 x 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days. The subjects could only roll-over if they completed the final follow-up of the previous cycle and were still eligible. In cycle 1 treatment was within D0 - D4. Cycle 2 treatment within D84 - D88. And treatment for cycle 3 within D168-D172. Final follow-up after 3 treatment cycles was FUV9 (D252).	

Reporting group values	1 Cycle AM-101	2 Cycles AM-101	3 Cycles AM-101
Number of subjects	114	67	76
Age categorical			
Units: Subjects			
Adults (18-64 years)	106	61	64
From 65-84 years	8	6	12
85 years and over	0	0	0
Age continuous			
Units: years			
arithmetic mean	43.1	44.7	47.6
standard deviation	± 14.1	± 13.9	± 15.5
Gender categorical			
Units: Subjects			
Female	25	17	21
Male	89	50	55

Reporting group values	Total		
Number of subjects	257		
Age categorical			
Units: Subjects			
Adults (18-64 years)	231		
From 65-84 years	26		
85 years and over	0		
Age continuous			
Units: years			
arithmetic mean	-		
standard deviation	-		
Gender categorical			
Units: Subjects			
Female	63		

Male	194		
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End points

End points reporting groups

Reporting group title	1 Cycle AM-101
Reporting group description: Subjects participated in 1 treatment cycle and received one round of 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days (D0 - D4)	
Reporting group title	2 Cycles AM-101
Reporting group description: Subjects that participated in 2 treatment cycles of the AMPACT1 study, received 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days (D0 - D4) in cycle 1 and after final follow-up (D84) of cycle 1, they rolled-over to treatment cycle 2 receiving once more 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days (D84 - D88).	
Reporting group title	3 Cycles AM-101
Reporting group description: Subjects that participated in all 3 treatment cycles of the AMPACT1 study, received 3 x 3 repeated doses of AM-101 gel (0.87 mg/mL) within 5 days. The subjects could only roll-over if they completed the final follow-up of the previous cycle and were still eligible. In cycle 1 treatment was within D0 - D4. Cycle 2 treatment within D84 - D88. And treatment for cycle 3 within D168-D172. Final follow-up after 3 treatment cycles was FUV9 (D252).	

Primary: Frequency of Subjects With a Deterioration of Hearing Threshold at Day 35 (Air Conduction)

End point title	Frequency of Subjects With a Deterioration of Hearing Threshold at Day 35 (Air Conduction)
End point description: Valid for Safety Analysis Set was used. Air conduction: The atmospheric transmission of sound to the inner ear through the external auditory canal and via structures of the middle ear. The ability of hearing is measured in decibel (dB). The hearing threshold, is the lowest sound pressure where the ear can perceive still a sound. The endpoint deterioration of hearing threshold ≥ 15 dB in two contiguous test frequencies means that hearing worsens ≥ 15 dB in two neighboring sound frequencies.	
End point type	Primary
End point timeframe: Day 1 (TV1) to Day 35 (FUV2) of cycle 1	

End point values	1 Cycle AM-101	2 Cycles AM-101	3 Cycles AM-101	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	103 ^[1]	67 ^[2]	74 ^[3]	
Units: Number subjects affected	10	2	2	

Notes:

[1] - Subjects who participated only in 1 treatment cycle and are valid for safety analysis.

[2] - Subjects who received two treatment cycles and are valid for safety analysis.

[3] - Subjects who received 3 treatment cycles and are valid for safety analysis.

Statistical analyses

Statistical analysis title	Subjects participating in 1 Cycle vs. 2 Cycles
Statistical analysis description:	
Fisher's exact test to assess if there is a difference in deterioration of hearing threshold between subjects that had only 1 treatment cycle or those that decided later to have 2 treatment cycles. The analysis is based on the deterioration of hearing detected at FUV2 for all subjects in those groups.	
Comparison groups	2 Cycles AM-101 v 1 Cycle AM-101
Number of subjects included in analysis	170
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.128
Method	Fisher exact

Statistical analysis title	Subjects participating in 1 Cycle vs. 3 Cycles
Statistical analysis description:	
Fisher's exact test to assess if there is a difference in deterioration of hearing threshold between subjects that had only 1 treatment cycle or those that decided later to have 3 treatment cycles. The analysis is based on the deterioration of hearing detected at FUV2 for all subjects in those groups.	
Comparison groups	1 Cycle AM-101 v 3 Cycles AM-101
Number of subjects included in analysis	177
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.075
Method	Fisher exact

Statistical analysis title	Subjects participating in 2 Cycles vs. 3 Cycles
Statistical analysis description:	
Fisher's exact test to assess if there is a difference in deterioration of hearing threshold between subjects that decided to participate in 2 treatment cycle or those that decided later to have 3 treatment cycles. The analysis is based on the deterioration of hearing detected at FUV2 for all subjects in those groups.	
Comparison groups	2 Cycles AM-101 v 3 Cycles AM-101
Number of subjects included in analysis	141
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 1
Method	Fisher exact

Primary: Frequency of Subjects With a Deterioration of Hearing Threshold at Day 119 (Air Conduction)

End point title	Frequency of Subjects With a Deterioration of Hearing Threshold at Day 119 (Air Conduction) ^[4]
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End point description:

Valid for Safety Analysis Set was used.

Air conduction: The atmospheric transmission of sound to the inner ear through the external auditory canal and via structures of the middle ear. The ability of hearing is measured in decibel (dB). The hearing threshold, is the lowest sound pressure where the ear can perceive still a sound.

The endpoint deterioration of hearing threshold ≥ 15 dB in two contiguous test frequencies means that hearing worsens ≥ 15 dB in two neighboring sound frequencies.

End point type	Primary
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End point timeframe:

Day 84 (TV4) to Day 119 (FUV5) of cycle 2

Notes:

[4] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: Deterioration of hearing threshold at FUV5 (Day 119) is only evaluable for subjects that participated in 2 or 3 treatment cycles. For subjects that participated only in one treatment cycle, the study had already ended after FUV3 (Day 84). Therefore, only one statistical comparison between subjects that participated in 2 vs. 3 treatment cycles, is possible.

End point values	2 Cycles AM-101	3 Cycles AM-101		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	59	75		
Units: Number subjects affected	1	0		

Statistical analyses

Statistical analysis title	Subjects participating in 2 Cycles vs. 3 Cycles
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Statistical analysis description:

Fisher's exact test to assess if there is a difference in deterioration of hearing threshold between subjects that decided to participate in 2 treatment cycle or those that decided later to have 3 treatment cycles. The analysis is based on the deterioration of hearing detected at FUV5 for all subjects in those groups.

Comparison groups	2 Cycles AM-101 v 3 Cycles AM-101
Number of subjects included in analysis	134
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.4403
Method	Fisher exact

Primary: Frequency of Subjects With a Deterioration of Hearing Threshold at Day 203 (Air Conduction)

End point title	Frequency of Subjects With a Deterioration of Hearing Threshold at Day 203 (Air Conduction) ^{[5][6]}
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End point description:

Valid for Safety Analysis Set was used.

Air conduction: The atmospheric transmission of sound to the inner ear through the external auditory canal and via structures of the middle ear. The ability of hearing is measured in decibel (dB). The hearing threshold, is the lowest sound pressure where the ear can perceive still a sound. The endpoint deterioration of hearing threshold ≥ 15 dB in two contiguous test frequencies means that hearing worsens ≥ 15 dB in two neighboring sound frequencies.

End point type	Primary
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End point timeframe:

Day 168 (TV7) up to Day 203 (FUV8) of cycle 3

Notes:

[5] - 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: Deterioration of hearing threshold at FUV8 (Day 203) is only evaluable for subjects that participated in 3 treatment cycles. For subjects that participated in 1 or 2 treatment cycles, the study had already ended after FUV3 (Day 84) or FUV6 (Day 168). Therefore no statistical analysis is possible.

[6] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: Deterioration of hearing threshold at FUV8 (Day 203) is only evaluable for subjects that participated in 3 treatment cycles. For subjects that participated in 1 or 2 treatment cycles, the study had already ended after FUV3 (Day 84) or FUV6 (Day 168). Therefore no statistical analysis is possible.

End point values	3 Cycles AM-101			
Subject group type	Reporting group			
Number of subjects analysed	74			
Units: Number subjects affected	2			

Statistical analyses

No statistical analyses for this end point

Secondary: Frequency of Subjects With a Deterioration of Hearing Threshold at Day 84 (Air Conduction)

End point title	Frequency of Subjects With a Deterioration of Hearing Threshold at Day 84 (Air Conduction)
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End point description:

Valid for Safety Analysis Set was used.

Air conduction: The atmospheric transmission of sound to the inner ear through the external auditory canal and via structures of the middle ear. The ability of hearing is measured in decibel (dB). The hearing threshold, is the lowest sound pressure where the ear can perceive still a sound. The endpoint deterioration of hearing threshold ≥ 15 dB in two contiguous test frequencies means that hearing worsens ≥ 15 dB in two neighboring sound frequencies.

End point type	Secondary
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End point timeframe:

Day 1 (TV1) to Day 84 (FUV3) of cycle 1

End point values	1 Cycle AM-101	2 Cycles AM-101	3 Cycles AM-101	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	91	66	75	
Units: Number subjects affected	10	3	0	

Statistical analyses

Statistical analysis title	Subjects participating in 1 Cycle vs. 2 Cycles
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Statistical analysis description:

Fisher's exact test to assess if there is a difference in deterioration of hearing threshold between

subjects that had only 1 treatment cycle or those that decided later to have 2 treatment cycles. The analysis is based on the deterioration of hearing detected at FUV3 for all subjects in those groups.

Comparison groups	1 Cycle AM-101 v 2 Cycles AM-101
Number of subjects included in analysis	157
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.2401
Method	Fisher exact

Statistical analysis title	Subjects participating in 1 Cycle vs. 3 Cycles
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Statistical analysis description:

Fisher's exact test to assess if there is a difference in deterioration of hearing threshold between subjects that had only 1 treatment cycle or those that decided later to have 3 treatment cycles. The analysis is based on the deterioration of hearing detected at FUV3 for all subjects in those groups.

Comparison groups	1 Cycle AM-101 v 3 Cycles AM-101
Number of subjects included in analysis	166
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.0022
Method	Fisher exact

Statistical analysis title	Subjects participating in 2 Cycles vs. 3 Cycles
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Statistical analysis description:

Fisher's exact test to assess if there is a difference in deterioration of hearing threshold between subjects that decided to participate in 2 treatment cycle or those that decided later to have 3 treatment cycles. The analysis is based on the deterioration of hearing detected at FUV3 for all subjects in those groups.

Comparison groups	2 Cycles AM-101 v 3 Cycles AM-101
Number of subjects included in analysis	141
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.1001
Method	Fisher exact

Secondary: Frequency of Subjects With a Deterioration of Hearing Threshold at Day 168 (Air Conduction)

End point title	Frequency of Subjects With a Deterioration of Hearing Threshold at Day 168 (Air Conduction) ^[7]
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End point description:

Valid for Safety Analysis Set was used.

Air conduction: The atmospheric transmission of sound to the inner ear through the external auditory canal and via structures of the middle ear. The ability of hearing is measured in decibel (dB). The hearing threshold, is the lowest sound pressure where the ear can perceive still a sound. The endpoint deterioration of hearing threshold ≥ 15 dB in two contiguous test frequencies means that hearing worsens ≥ 15 dB in two neighboring sound frequencies.

End point type	Secondary
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End point timeframe:

Day 84 (TV4) to Day 168 (FUV6) of cycle 2

Notes:

[7] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: Deterioration of hearing threshold at FUV5 (Day 168) is only evaluable for subjects that participated in 2 or 3 treatment cycles. For subjects that participated only in one treatment cycle, the study had already ended after FUV3 (Day 84). Therefore, only one statistical comparison between subjects that participated in 2 vs. 3 treatment cycles, is possible.

End point values	2 Cycles AM-101	3 Cycles AM-101		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	55	76		
Units: Number subjects affected	0	1		

Statistical analyses

Statistical analysis title	Subjects participating in 2 Cycles vs. 3 Cycles
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Statistical analysis description:

Fisher's exact test to assess if there is a difference in deterioration of hearing threshold between subjects that decided to participate in 2 treatment cycle or those that decided later to have 3 treatment cycles. The analysis is based on the deterioration of hearing detected at FUV6 for all subjects in those groups.

Comparison groups	2 Cycles AM-101 v 3 Cycles AM-101
Number of subjects included in analysis	131
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 1
Method	Fisher exact

Secondary: Frequency of Subjects With a Deterioration of Hearing Threshold at Day 252 (Air Conduction)

End point title	Frequency of Subjects With a Deterioration of Hearing Threshold at Day 252 (Air Conduction) ^[8]
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End point description:

Valid for Safety Analysis Set was used.

Air conduction: The atmospheric transmission of sound to the inner ear through the external auditory canal and via structures of the middle ear. The ability of hearing is measured in decibel (dB). The hearing threshold, is the lowest sound pressure where the ear can perceive still a sound. The endpoint deterioration of hearing threshold ≥ 15 dB in two contiguous test frequencies means that hearing worsens ≥ 15 dB in two neighboring sound frequencies.

End point type	Secondary
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End point timeframe:

Day 168 (TV7) to Day 252 (FUV9) of cycle 3

Notes:

[8] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: Deterioration of hearing threshold at FUV9 (Day 252) is only evaluable for subjects that participated in 3 treatment cycles. For subjects that participated in 1 or 2 treatment cycles, the study had already ended after FUV3 (Day 84 or FUV6 (Day 168)). Therefore, no statistical analysis is possible.

End point values	3 Cycles AM-101			
Subject group type	Reporting group			
Number of subjects analysed	74			
Units: Number subjects affected	2			

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From baseline to end of study at all visits.

Adverse event reporting additional description:

Assessed by Investigator at all visits.

In non-serious adverse events section, under occurrences (all), reported numbers are "subjects affected".

Assessment type	Systematic
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Dictionary used

Dictionary name	MedDRA
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Dictionary version	19.1
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Reporting groups

Reporting group title	1 Cycle AM-101
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Reporting group description: -

Reporting group title	2 Cycles AM-101
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Reporting group description: -

Reporting group title	3 Cycles AM-101
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Reporting group description: -

Serious adverse events	1 Cycle AM-101	2 Cycles AM-101	3 Cycles AM-101
Total subjects affected by serious adverse events			
subjects affected / exposed	2 / 114 (1.75%)	1 / 67 (1.49%)	1 / 76 (1.32%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Investigations			
Liver function test increased			
subjects affected / exposed	1 / 114 (0.88%)	0 / 67 (0.00%)	0 / 76 (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
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Lip and/or oral cavity cancer			
subjects affected / exposed	1 / 114 (0.88%)	0 / 67 (0.00%)	0 / 76 (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
Reproductive system and breast disorders			
Adnexa uteri cyst			

subjects affected / exposed	0 / 114 (0.00%)	1 / 67 (1.49%)	0 / 76 (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
Adnexa uteri mass			
subjects affected / exposed	0 / 114 (0.00%)	1 / 67 (1.49%)	0 / 76 (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
Musculoskeletal and connective tissue disorders			
Osteonecrosis			
subjects affected / exposed	0 / 114 (0.00%)	0 / 67 (0.00%)	1 / 76 (1.32%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Frequency threshold for reporting non-serious adverse events: 2 %

Non-serious adverse events	1 Cycle AM-101	2 Cycles AM-101	3 Cycles AM-101
Total subjects affected by non-serious adverse events			
subjects affected / exposed	25 / 114 (21.93%)	25 / 67 (37.31%)	37 / 76 (48.68%)
Surgical and medical procedures			
Artificial crown procedure			
subjects affected / exposed	0 / 114 (0.00%)	0 / 67 (0.00%)	2 / 76 (2.63%)
occurrences (all)	0	0	2
Nervous system disorders			
Headache			
subjects affected / exposed	5 / 114 (4.39%)	7 / 67 (10.45%)	9 / 76 (11.84%)
occurrences (all)	5	7	9
Dizziness			
subjects affected / exposed	0 / 114 (0.00%)	1 / 67 (1.49%)	2 / 76 (2.63%)
occurrences (all)	0	1	2
Ear and labyrinth disorders			
Ear discomfort			
subjects affected / exposed	3 / 114 (2.63%)	9 / 67 (13.43%)	7 / 76 (9.21%)
occurrences (all)	3	9	7
Ear pain			

subjects affected / exposed occurrences (all)	10 / 114 (8.77%) 10	13 / 67 (19.40%) 13	8 / 76 (10.53%) 8
Hypoacusis subjects affected / exposed occurrences (all)	5 / 114 (4.39%) 5	4 / 67 (5.97%) 4	4 / 76 (5.26%) 4
Otorrhoea subjects affected / exposed occurrences (all)	1 / 114 (0.88%) 1	4 / 67 (5.97%) 4	3 / 76 (3.95%) 3
Tinnitus subjects affected / exposed occurrences (all)	0 / 114 (0.00%) 0	2 / 67 (2.99%) 2	5 / 76 (6.58%) 5
Tympanic membrane perforation subjects affected / exposed occurrences (all)	0 / 114 (0.00%) 0	0 / 67 (0.00%) 0	3 / 76 (3.95%) 3
Vertigo subjects affected / exposed occurrences (all)	0 / 114 (0.00%) 0	2 / 67 (2.99%) 2	1 / 76 (1.32%) 1
Eustachian tube dysfunction subjects affected / exposed occurrences (all)	1 / 114 (0.88%) 1	0 / 67 (0.00%) 0	2 / 76 (2.63%) 2
Hyperacusis subjects affected / exposed occurrences (all)	0 / 114 (0.00%) 0	0 / 67 (0.00%) 0	2 / 76 (2.63%) 2
Psychiatric disorders Anxiety subjects affected / exposed occurrences (all)	1 / 114 (0.88%) 1	1 / 67 (1.49%) 1	2 / 76 (2.63%) 2
Infections and infestations Influenza subjects affected / exposed occurrences (all)	0 / 114 (0.00%) 0	2 / 67 (2.99%) 2	0 / 76 (0.00%) 0
Nasopharyngitis subjects affected / exposed occurrences (all)	4 / 114 (3.51%) 4	2 / 67 (2.99%) 2	6 / 76 (7.89%) 6
Bronchitis			

subjects affected / exposed	0 / 114 (0.00%)	0 / 67 (0.00%)	2 / 76 (2.63%)
occurrences (all)	0	0	2
Sinusitis			
subjects affected / exposed	0 / 114 (0.00%)	0 / 67 (0.00%)	2 / 76 (2.63%)
occurrences (all)	0	0	2
Upper respiratory tract infection			
subjects affected / exposed	0 / 114 (0.00%)	1 / 67 (1.49%)	2 / 76 (2.63%)
occurrences (all)	0	1	2

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported