

**Clinical trial results:****PEANUT ALLERGY ORAL IMMUNOTHERAPY STUDY OF AR101 FOR DESENSITIZATION IN CHILDREN AND ADULTS (PALISADE) FOLLOW-ON STUDY****Summary**

|                          |                      |
|--------------------------|----------------------|
| EudraCT number           | 2016-004941-94       |
| Trial protocol           | IE GB SE DE ES NL IT |
| Global end of trial date | 31 May 2019          |

**Results information**

|                                |              |
|--------------------------------|--------------|
| Result version number          | v1 (current) |
| This version publication date  | 02 July 2021 |
| First version publication date | 02 July 2021 |

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

|                       |        |
|-----------------------|--------|
| Sponsor protocol code | ARC004 |
|-----------------------|--------|

**Additional study identifiers**

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT02993107 |
| WHO universal trial number (UTN)   | -           |

Notes:

**Sponsors**

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Aimmune Therapeutics Inc.  |
| Sponsor organisation address | 8000 Marina Blvd, Suite 300, Brisbane, United States, 94005  |
| Public contact               | Director of Regulatory Affairs, Aimmune Therapeutics Inc., +1 (650)409-5164, RegulatoryAffairs@aimmune.com |
| Scientific contact           | Director of Regulatory Affairs, Aimmune Therapeutics Inc., +1 (650)409-5164, RegulatoryAffairs@aimmune.com |

Notes:

**Paediatric regulatory details**

|  |                     |
|--|---------------------|
| Is trial part of an agreed paediatric investigation plan (PIP)       | Yes                 |
| EMA paediatric investigation plan number(s)                          | EMA-001734-PIP01-14 |
| 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                       | 14 February 2020 |
| Is this the analysis of the primary completion data? | Yes              |
| Primary completion date                              | 31 May 2019      |
| Global end of trial reached?                         | Yes              |
| Global end of trial date                             | 31 May 2019      |
| Was the trial ended prematurely?                     | No               |

Notes:

## General information about the trial

Main objective of the trial:

The primary objective of this study is to determine the safety, tolerability and efficacy of AR101 characterized oral desensitization immunotherapy using alternative maintenance dosing intervals.

Protection of trial subjects:

- Education of patients to notify sites of allergic symptoms occurring at home.
- Patient emergency card, dos and don't card, home dosing card.
- Patients/caregivers asked to carry epi-pen with them at all times during study.
- Patient advised to go to local emergency unit outside of normal clinical working hours.
- Patient advised to report rare or unforeseen AEs immediately.
- Advised to practice usual peanut avoidance
- Specific reporting/monitoring of AEs, Gastrointestinal AEs (monitoring and follow-up for EOE), capture of AEs in patient diaries, EDC, SAE reporting, study and individual stopping rules & in clinic, supervised up-dosing, including observation timelines prior to Clinic departure.

Background therapy: -

Evidence for comparator: -

|   |  |
|---|--|
| Actual start date of recruitment                          | 20 December 2016   |
| Long term follow-up planned                               | Yes  |
| Long term follow-up rationale                             | Safety, Efficacy, Regulatory reason, Scientific research |
| 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 | Netherlands: 3     |
| Country: Number of subjects enrolled | Spain: 15          |
| Country: Number of subjects enrolled | Sweden: 7          |
| Country: Number of subjects enrolled | United Kingdom: 16 |
| Country: Number of subjects enrolled | Germany: 15        |
| Country: Number of subjects enrolled | Ireland: 15        |
| Country: Number of subjects enrolled | Italy: 4           |
| Country: Number of subjects enrolled | Canada: 23         |
| Country: Number of subjects enrolled | United States: 290 |
| Worldwide total number of subjects   | 388                |
| EEA total number of subjects         | 75                 |

Notes:

| <b>Subjects enrolled per age group</b>    |     |
|---|-----|
| 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)                     | 230 |
| Adolescents (12-17 years)                 | 128 |
| Adults (18-64 years)                      | 30  |
| From 65 to 84 years                       | 0   |
| 85 years and over                         | 0   |

## Subject disposition

### Recruitment

Recruitment details:

A total of 442 subjects who completed the ARC003 (PALISADE) study were eligible for participation in this study and were screened for inclusion of which 388 were enrolled in this study.

### Pre-assignment

Screening details:

Subjects who met all of the following criteria were eligible for enrolment:

- Completion of ARC003
- Written informed consent and/or assent from subject/guardian as appropriate
- Continued use of effective birth control by female subjects of childbearing potential

### Period 1

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

### Arms

|                              |         |
|------------------------------|---------|
| Are arms mutually exclusive? | No      |
| <b>Arm title</b>             | Group 1 |

Arm description:

Group 1 (placebo treated subjects in ARC003): Subjects received AR101 during initial dose escalation (day 1, 0.5 to 3 or 6 mg; day 2, 3 mg), up dosing (3 to 300 mg/day for 22 to 40 weeks, with dose escalations every 2 weeks), and maintenance (300 mg/day for 24 to 28 weeks). A DBPCFC using peanut protein (not AR101) of doses up to 2000 mg (4043 mg cumulative) was conducted after approximately 6 months of maintenance treatment. This was followed by an extended maintenance period in subjects tolerating at least 300mg in the DBPCFC where the subjects may be dosed at gradually dosing intervals depending on the results from group 2. The total duration of AR101 treatment in group 1 was 88 to 136 weeks.

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | AR101        |
| Investigational medicinal product code |              |
| Other name                             |              |
| Pharmaceutical forms                   | Oral powder  |
| Routes of administration               | Oral use     |

Dosage and administration details:

AR101 drug product was supplied in 2 presentations. These were capsules containing 0.5, 1, 10, 20 and 100mg of peanut protein and sealed sachets containing 300mg of peanut protein. Subjects in initial escalation and up-dosing phases received the capsule presentation. Subjects in maintenance phase received the sachet presentation according to their allocated dosing schedules. If dose-reduction was required, subjects were dispensed the appropriate capsule packs.

|                  |                   |
|------------------|-------------------|
| <b>Arm title</b> | Group 2, Cohort 1 |
|------------------|-------------------|

Arm description:

Group 2, Cohort 1 subjects were the first 120 (approximately) of the AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day (once daily, QD) for 28 weeks.

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | AR101        |
| Investigational medicinal product code |              |
| Other name                             |              |
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**Dosage and administration details:**

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|                  |                   |
|------------------|-------------------|
| <b>Arm title</b> | Group 2, Cohort 2 |
|------------------|-------------------|

**Arm description:**

Group 2, Cohort 2 subjects comprised 50(approximately) of the AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every other day (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks for a total of 28 weeks.

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | AR101        |
| Investigational medicinal product code |              |
| Other name                             |              |
| Pharmaceutical forms                   | Oral powder  |
| Routes of administration               | Oral use     |

**Dosage and administration details:**

AR101 drug product was supplied in 2 presentations. These were capsules containing 0.5, 1, 10, 20 and 100mg of peanut protein and sealed sachets containing 300mg of peanut protein. Subjects in initial escalation and up-dosing phases received the capsule presentation. Subjects in maintenance phase received the sachet presentation according to their allocated dosing schedules. If dose-reduction was required, subjects were dispensed the appropriate capsule packs.

|                  |                    |
|------------------|--------------------|
| <b>Arm title</b> | Group 2, Cohort 3A |
|------------------|--------------------|

**Arm description:**

Group 2, Cohort 3A subjects were AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 56 weeks.

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | AR101        |
| Investigational medicinal product code |              |
| Other name                             |              |
| Pharmaceutical forms                   | Oral powder  |
| Routes of administration               | Oral use     |

**Dosage and administration details:**

AR101 drug product was supplied in 2 presentations. These were capsules containing 0.5, 1, 10, 20 and 100mg of peanut protein and sealed sachets containing 300mg of peanut protein. Subjects in initial escalation and up-dosing phases received the capsule presentation. Subjects in maintenance phase received the sachet presentation according to their allocated dosing schedules. If dose-reduction was required, subjects were dispensed the appropriate capsule packs.

|                  |                    |
|------------------|--------------------|
| <b>Arm title</b> | Group 2, Cohort 3B |
|------------------|--------------------|

**Arm description:**

Group 2, Cohort 3B subjects were AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 28 weeks, 300 mg/day every other (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks (total of 56 weeks).

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | AR101        |
| Investigational medicinal product code |              |
| Other name                             |              |
| Pharmaceutical forms                   | Oral powder  |
| Routes of administration               | Oral use     |

**Dosage and administration details:**

AR101 drug product was supplied in 2 presentations. These were capsules containing 0.5, 1, 10, 20 and 100mg of peanut protein and sealed sachets containing 300mg of peanut protein. Subjects in this treatment arm received the sealed sachets containing 300mg of peanut protein every day (QD) for 28 weeks, 300 mg/day every other (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks (total of 56 weeks). If dose-reduction was required, subjects were dispensed the appropriate capsule packs.

|  |                    |
|--|--------------------|
| <b>Arm title</b>   | Group 2, Cohort 3C |
| Arm description:<br>Group 2, Cohort 3C subjects were AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 28 weeks, 300 mg/day every other (QOD) for 4 weeks, twice weekly (BIW) for 24 weeks then once weekly (QW) for 28 weeks (total of 84 weeks). |                    |
| Arm type   | Experimental       |
| Investigational medicinal product name   | AR101              |
| Investigational medicinal product code   |                    |
| Other name   |                    |
| Pharmaceutical forms   | Oral powder        |
| Routes of administration   | Oral use           |

Dosage and administration details:

AR101 drug product was supplied in 2 presentations. These were capsules containing 0.5, 1, 10, 20 and 100mg of peanut protein and sealed sachets containing 300mg of peanut protein. Subjects in this treatment arm received the sealed sachets containing 300mg of peanut protein every day (QD) for 4 weeks, 300 mg/day every other (QOD) for 4 weeks, twice weekly (BIW) for 24 weeks then once weekly (QW) for 28 weeks (total of 84 weeks). If dose-reduction was required, subjects were dispensed the appropriate capsule packs.

| <b>Number of subjects in period 1</b> | Group 1 | Group 2, Cohort 1 | Group 2, Cohort 2 |
|---------------------------------------|---------|-------------------|-------------------|
| Started                               | 113     | 120               | 50                |
| Completed                             | 62      | 107               | 39                |
| Not completed                         | 51      | 13                | 11                |
| Physician decision                    | 1       | -                 | 1                 |
| Consent withdrawn by subject          | 32      | 7                 | 7                 |
| Adverse event, non-fatal              | 12      | 4                 | 1                 |
| Other                                 | 2       | 1                 | 1                 |
| Sponsor Decision                      | 4       | -                 | 1                 |
| Lost to follow-up                     | -       | 1                 | -                 |
| Protocol deviation                    | -       | -                 | -                 |

| <b>Number of subjects in period 1</b> | Group 2, Cohort 3A | Group 2, Cohort 3B | Group 2, Cohort 3C |
|---------------------------------------|--------------------|--------------------|--------------------|
| Started                               | 35                 | 34                 | 36                 |
| Completed                             | 29                 | 22                 | 21                 |
| Not completed                         | 6                  | 12                 | 15                 |
| Physician decision                    | -                  | -                  | -                  |
| Consent withdrawn by subject          | 3                  | 6                  | 2                  |
| Adverse event, non-fatal              | 1                  | 3                  | 5                  |
| Other                                 | 1                  | 2                  | 3                  |
| Sponsor Decision                      | 1                  | -                  | 4                  |
| Lost to follow-up                     | -                  | -                  | 1                  |
| Protocol deviation                    | -                  | 1                  | -                  |



## Baseline characteristics

### Reporting groups

|  |                 |
|--|-----------------|
| Reporting group title  | Post-Allocation |
| Reporting group description:                                       |                 |
| Subjects aged 4 to 55 years who completed study ARC003 (PALISADE). |                 |

| Reporting group values                             | Post-Allocation | Total |  |
|--|-----------------|-------|--|
| Number of subjects                                 | 388             | 388   |  |
| Age categorical                                    |                 |       |  |
| Units: Subjects                                    |                 |       |  |
| In utero   | 0               | 0     |  |
| Preterm newborn infants (gestational age < 37 wks) | 0               | 0     |  |
| Newborns (0-27 days)                               | 0               | 0     |  |
| Infants and toddlers (28 days-23 months)           | 0               | 0     |  |
| Children (2-11 years)                              | 230             | 230   |  |
| Adolescents (12-17 years)                          | 128             | 128   |  |
| Adults (18-64 years)                               | 30              | 30    |  |
| From 65-84 years                                   | 0               | 0     |  |
| 85 years and over                                  | 0               | 0     |  |
| Age continuous                                     |                 |       |  |
| Subject age at screening (years)                   |                 |       |  |
| Units: years                                       |                 |       |  |
| median   | 10              |       |  |
| full range (min-max)                               | 4 to 17         | -     |  |
| Gender categorical                                 |                 |       |  |
| Units: Subjects                                    |                 |       |  |
| Female   | 165             | 165   |  |
| Male   | 223             | 223   |  |

### Subject analysis sets

|                            |  |
|----------------------------|--|
| Subject analysis set title | Safety Population Ages 4-17: Group 1 (All Study Periods) |
| Subject analysis set type  | Safety analysis  |

Subject analysis set description:

Group 1 (placebo treated subjects in ARC003): Subjects received AR101 during initial dose escalation (IDE; day 1, 0.5 to 3 or 6 mg; day 2, 3 mg), up dosing (3 to 300 mg/day for 22 to 40 weeks, with dose escalations every 2 weeks), and maintenance (300 mg/day for 24 to 28 weeks). A DBPCFC, using peanut protein (not AR101) of doses up to 2000 mg (4043 mg cumulative), was conducted after approximately 6 months of maintenance treatment. This was followed by an extended maintenance period in subjects tolerating at least 300mg in the DBPCFC where the subjects may be doses at gradually dosing intervals depending on the results from group 2. The total duration of AR101 treatment in group 1 was 88 to 136 weeks. This analysis set evaluates all the above study phases. This analysis set includes events from subjects in all study (IDE, Updosing and maintenance) periods.

|                            |  |
|----------------------------|--|
| Subject analysis set title | Safety Population Ages 4-17: Group 2, Cohort 1 |
| Subject analysis set type  | Safety analysis                                |

Subject analysis set description:

Group 2, Cohort 1 subjects were the first 120 of the AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day (once daily, QD) for 28 weeks.

|   |   |
|---|---|
| Subject analysis set title  | Safety Population Ages 4-17: Group 2, Cohort 2          |
| Subject analysis set type   | Safety analysis   |
| Subject analysis set description:   |   |
| Group 2, Cohort 2 subjects comprised 50 of the AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every other day (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks for a total of 28 weeks.  |   |
| Subject analysis set title  | Safety Population Ages 4-17: Group 2, Cohort 3A         |
| Subject analysis set type   | Safety analysis   |
| Subject analysis set description:   |   |
| Group 2, Cohort 3A subjects were AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 56 weeks.  |   |
| Subject analysis set title  | Safety Population Ages 4-17: Group 2, Cohort 3B         |
| Subject analysis set type   | Safety analysis   |
| Subject analysis set description:   |   |
| Group 2, Cohort 3B subjects were AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 28 weeks, 300 mg/day every other (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks (total of 56 weeks).  |   |
| Subject analysis set title  | Safety Population Ages 4-17: Group 2, Cohort 3C         |
| Subject analysis set type   | Safety analysis   |
| Subject analysis set description:   |   |
| Group 2, Cohort 3C subjects were AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 4 weeks, 300 mg/day every other (QOD) for 4 weeks, twice weekly (BIW) for 24 weeks then once weekly (QW) for 28 weeks (total of 84 weeks).   |   |
| Subject analysis set title  | Safety Population Ages 4-17: Group 1 (IDE and Updosing) |
| Subject analysis set type   | Sub-group analysis                                      |
| Subject analysis set description:   |   |
| Group 1 (placebo treated subjects in ARC003): Subjects received AR101 during initial dose escalation (IDE; day 1, 0.5 to 3 or 6 mg; day 2, 3 mg), up dosing (3 to 300 mg/day for 22 to 40 weeks, with dose escalations every 2 weeks), and maintenance (300 mg/day for 24 to 28 weeks). A DBPCFC, using peanut protein (not AR101) of doses up to 2000 mg (4043 mg cumulative), was conducted after approximately 6 months of maintenance treatment. This was followed by an extended maintenance period in subjects tolerating at least 300mg in the DBPCFC where the subjects may be doses at gradually dosing intervals depending on the results from group 2. The total duration of AR101 treatment in group 1 was 88 to 136 weeks. This analysis set includes events from subjects in the IDE and Updosing periods only. |   |
| Subject analysis set title  | Safety Population Ages 4-17: Group 1 (Maintenance)      |
| Subject analysis set type   | Sub-group analysis                                      |
| Subject analysis set description:   |   |
| Group 1 (placebo treated subjects in ARC003): Subjects received AR101 during initial dose escalation (IDE; day 1, 0.5 to 3 or 6 mg; day 2, 3 mg), up dosing (3 to 300 mg/day for 22 to 40 weeks, with dose escalations every 2 weeks), and maintenance (300 mg/day for 24 to 28 weeks). A DBPCFC, using peanut protein (not AR101) of doses up to 2000 mg (4043 mg cumulative), was conducted after approximately 6 months of maintenance treatment. This was followed by an extended maintenance period in subjects tolerating at least 300mg in the DBPCFC where the subjects may be doses at gradually dosing intervals depending on the results from group 2. The total duration of AR101 treatment in group 1 was 88 to 136 weeks. This analysis set includes event from subjects in the maintenance period only.        |   |
| Subject analysis set title  | Safety Population Ages 18-55                            |
| Subject analysis set type   | Sub-group analysis                                      |
| Subject analysis set description:   |   |
| Adult population data not reported.   |   |

| Reporting group values | Safety Population Ages 4-17: Group 1 (All Study Periods) | Safety Population Ages 4-17: Group 2, Cohort 1 | Safety Population Ages 4-17: Group 2, Cohort 2 |
|------------------------|--|--|--|
| Number of subjects     | 102  | 112  | 48   |

|  |         |         |         |
|--|---------|---------|---------|
| Age categorical                                    |         |         |         |
| Units: Subjects                                    |         |         |         |
| In utero   | 0       | 0       | 0       |
| Preterm newborn infants (gestational age < 37 wks) | 0       | 0       | 0       |
| Newborns (0-27 days)                               | 0       | 0       | 0       |
| Infants and toddlers (28 days-23 months)           | 0       | 0       | 0       |
| Children (2-11 years)                              | 69      | 63      | 31      |
| Adolescents (12-17 years)                          | 33      | 46      | 15      |
| Adults (18-64 years)                               | 0       | 0       | 0       |
| From 65-84 years                                   | 0       | 0       | 0       |
| 85 years and over                                  | 0       | 0       | 0       |
| Age continuous                                     |         |         |         |
| Subject age at screening (years)                   |         |         |         |
| Units: years                                       |         |         |         |
| median   | 9.5     | 11      | 10      |
| full range (min-max)                               | 5 to 17 | 5 to 17 | 4 to 17 |
| Gender categorical                                 |         |         |         |
| Units: Subjects                                    |         |         |         |
| Female   | 37      | 52      | 22      |
| Male   | 65      | 60      | 26      |

| <b>Reporting group values</b>                      | Safety Population<br>Ages 4-17: Group 2,<br>Cohort 3A | Safety Population<br>Ages 4-17: Group 2,<br>Cohort 3B | Safety Population<br>Ages 4-17: Group 2,<br>Cohort 3C |
|--|---|---|---|
| Number of subjects                                 | 31  | 31  | 34  |
| Age categorical                                    |   |   |   |
| Units: Subjects                                    |   |   |   |
| In utero   | 0   | 0   | 0   |
| Preterm newborn infants (gestational age < 37 wks) | 0   | 0   | 0   |
| Newborns (0-27 days)                               | 0   | 0   | 0   |
| Infants and toddlers (28 days-23 months)           | 0   | 0   | 0   |
| Children (2-11 years)                              | 22  | 20  | 23  |
| Adolescents (12-17 years)                          | 9   | 11  | 11  |
| Adults (18-64 years)                               | 0   | 0   | 0   |
| From 65-84 years                                   | 0   | 0   | 0   |
| 85 years and over                                  | 0   | 0   | 0   |
| Age continuous                                     |   |   |   |
| Subject age at screening (years)                   |   |   |   |
| Units: years                                       |   |   |   |
| median   | 9   | 9   | 9   |
| full range (min-max)                               | 5 to 17   | 5 to 16   | 5 to 16   |
| Gender categorical                                 |   |   |   |
| Units: Subjects                                    |   |   |   |
| Female   | 14  | 12  | 16  |
| Male   | 17  | 19  | 18  |

| <b>Reporting group values</b> | Safety Population<br>Ages 4-17: Group 1<br>(IDE and Updosing) | Safety Population<br>Ages 4-17: Group 1<br>(Maintenance) | Safety Population<br>Ages 18-55 |
|-------------------------------|---|--|---------------------------------|
| Number of subjects            | 100   | 85   | 30                              |

|   |    |    |    |
|---|----|----|----|
| Age categorical                                       |    |    |    |
| Units: Subjects                                       |    |    |    |
| In utero  | 0  | 0  | 0  |
| Preterm newborn infants<br>(gestational age < 37 wks) | 0  | 0  | 0  |
| Newborns (0-27 days)                                  | 0  | 0  | 0  |
| Infants and toddlers (28 days-23<br>months)           | 0  | 0  | 0  |
| Children (2-11 years)                                 | 69 | 61 | 0  |
| Adolescents (12-17 years)                             | 31 | 24 | 0  |
| Adults (18-64 years)                                  | 0  | 0  | 30 |
| From 65-84 years                                      | 0  | 0  | 0  |
| 85 years and over                                     | 0  | 0  | 0  |
| Age continuous  |    |    |    |
| Subject age at screening (years)                      |    |    |    |
| Units: years  |    |    |    |
| median  |    |    |    |
| full range (min-max)                                  |    |    |    |
| Gender categorical                                    |    |    |    |
| Units: Subjects                                       |    |    |    |
| Female  | 35 | 30 | 12 |
| Male  | 65 | 55 | 18 |

## End points

### End points reporting groups

|  |  |
|--|--|
| Reporting group title  | Group 1  |
| Reporting group description:<br>Group 1 (placebo treated subjects in ARC003): Subjects received AR101 during initial dose escalation (day 1, 0.5 to 3 or 6 mg; day 2, 3 mg), up dosing (3 to 300 mg/day for 22 to 40 weeks, with dose escalations every 2 weeks), and maintenance (300 mg/day for 24 to 28 weeks). A DBPCFC using peanut protein (not AR101) of doses up to 2000 mg (4043 mg cumulative) was conducted after approximately 6 months of maintenance treatment. This was followed by an extended maintenance period in subjects tolerating at least 300mg in the DBPCFC where the subjects may be dosed at gradually dosing intervals depending on the results from group 2. The total duration of AR101 treatment in group 1 was 88 to 136 weeks.   |  |
| Reporting group title  | Group 2, Cohort 1  |
| Reporting group description:<br>Group 2, Cohort 1 subjects were the first 120 (approximately) of the AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day (once daily, QD) for 28 weeks.   |  |
| Reporting group title  | Group 2, Cohort 2  |
| Reporting group description:<br>Group 2, Cohort 2 subjects comprised 50(approximately) of the AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every other day (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks for a total of 28 weeks.  |  |
| Reporting group title  | Group 2, Cohort 3A                                       |
| Reporting group description:<br>Group 2, Cohort 3A subjects were AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 56 weeks.   |  |
| Reporting group title  | Group 2, Cohort 3B                                       |
| Reporting group description:<br>Group 2, Cohort 3B subjects were AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 28 weeks, 300 mg/day every other (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks (total of 56 weeks).   |  |
| Reporting group title  | Group 2, Cohort 3C                                       |
| Reporting group description:<br>Group 2, Cohort 3C subjects were AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 28 weeks, 300 mg/day every other (QOD) for 4 weeks, twice weekly (BIW) for 24 weeks then once weekly (QW) for 28 weeks (total of 84 weeks).   |  |
| Subject analysis set title   | Safety Population Ages 4-17: Group 1 (All Study Periods) |
| Subject analysis set type  | Safety analysis  |
| Subject analysis set description:<br>Group 1 (placebo treated subjects in ARC003): Subjects received AR101 during initial dose escalation (IDE; day 1, 0.5 to 3 or 6 mg; day 2, 3 mg), up dosing (3 to 300 mg/day for 22 to 40 weeks, with dose escalations every 2 weeks), and maintenance (300 mg/day for 24 to 28 weeks). A DBPCFC, using peanut protein (not AR101) of doses up to 2000 mg (4043 mg cumulative), was conducted after approximately 6 months of maintenance treatment. This was followed by an extended maintenance period in subjects tolerating at least 300mg in the DBPCFC where the subjects may be doses at gradually dosing intervals depending on the results from group 2. The total duration of AR101 treatment in group 1 was 88 to 136 weeks. This analysis set evaluates all the above study phases. This analysis set includes events from subjects in all study (IDE, Updosing and maintenance) periods. |  |
| Subject analysis set title   | Safety Population Ages 4-17: Group 2, Cohort 1           |
| Subject analysis set type  | Safety analysis  |
| Subject analysis set description:<br>Group 2, Cohort 1 subjects were the first 120 of the AR101-treated subjects in ARC003 who tolerated $\geq$ 300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day (once daily, QD) for 28 weeks.  |  |
| Subject analysis set title   | Safety Population Ages 4-17: Group 2, Cohort 2           |
| Subject analysis set type  | Safety analysis  |

Subject analysis set description:

Group 2, Cohort 2 subjects comprised 50 of the AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every other day (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks for a total of 28 weeks.

|                            |   |
|----------------------------|---|
| Subject analysis set title | Safety Population Ages 4-17: Group 2, Cohort 3A |
| Subject analysis set type  | Safety analysis                                 |

Subject analysis set description:

Group 2, Cohort 3A subjects were AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 56 weeks.

|                            |   |
|----------------------------|---|
| Subject analysis set title | Safety Population Ages 4-17: Group 2, Cohort 3B |
| Subject analysis set type  | Safety analysis                                 |

Subject analysis set description:

Group 2, Cohort 3B subjects were AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 28 weeks, 300 mg/day every other (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks (total of 56 weeks).

|                            |   |
|----------------------------|---|
| Subject analysis set title | Safety Population Ages 4-17: Group 2, Cohort 3C |
| Subject analysis set type  | Safety analysis                                 |

Subject analysis set description:

Group 2, Cohort 3C subjects were AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 4 weeks, 300 mg/day every other (QOD) for 4 weeks, twice weekly (BIW) for 24 weeks then once weekly (QW) for 28 weeks (total of 84 weeks).

|                            |   |
|----------------------------|---|
| Subject analysis set title | Safety Population Ages 4-17: Group 1 (IDE and Updosing) |
| Subject analysis set type  | Sub-group analysis                                      |

Subject analysis set description:

Group 1 (placebo treated subjects in ARC003): Subjects received AR101 during initial dose escalation (IDE; day 1, 0.5 to 3 or 6 mg; day 2, 3 mg), up dosing (3 to 300 mg/day for 22 to 40 weeks, with dose escalations every 2 weeks), and maintenance (300 mg/day for 24 to 28 weeks). A DBPCFC, using peanut protein (not AR101) of doses up to 2000 mg (4043 mg cumulative), was conducted after approximately 6 months of maintenance treatment. This was followed by an extended maintenance period in subjects tolerating at least 300mg in the DBPCFC where the subjects may be doses at gradually dosing intervals depending on the results from group 2. The total duration of AR101 treatment in group 1 was 88 to 136 weeks. This analysis set includes events from subjects in the IDE and Updosing periods only.

|                            |  |
|----------------------------|--|
| Subject analysis set title | Safety Population Ages 4-17: Group 1 (Maintenance) |
| Subject analysis set type  | Sub-group analysis                                 |

Subject analysis set description:

Group 1 (placebo treated subjects in ARC003): Subjects received AR101 during initial dose escalation (IDE; day 1, 0.5 to 3 or 6 mg; day 2, 3 mg), up dosing (3 to 300 mg/day for 22 to 40 weeks, with dose escalations every 2 weeks), and maintenance (300 mg/day for 24 to 28 weeks). A DBPCFC, using peanut protein (not AR101) of doses up to 2000 mg (4043 mg cumulative), was conducted after approximately 6 months of maintenance treatment. This was followed by an extended maintenance period in subjects tolerating at least 300mg in the DBPCFC where the subjects may be doses at gradually dosing intervals depending on the results from group 2. The total duration of AR101 treatment in group 1 was 88 to 136 weeks. This analysis set includes event from subjects in the maintenance period only.

|                            |                              |
|----------------------------|------------------------------|
| Subject analysis set title | Safety Population Ages 18-55 |
| Subject analysis set type  | Sub-group analysis           |

Subject analysis set description:

Adult population data not reported.

---

### Primary: Overall Summary of Treatment Emergent Adverse Events

|                 |   |
|-----------------|---|
| End point title | Overall Summary of Treatment Emergent Adverse Events <sup>[1]</sup> |
|-----------------|---|

End point description:

All Treatment Emergent AEs and AEs by Severity

|                |         |
|----------------|---------|
| End point type | Primary |
|----------------|---------|

End point timeframe:

Group 1: Total duration varies, ranging from approximately 88 to 136 weeks  
Group 2, Cohort 1: 28 weeks

Group 2, Cohort 2: 28 weeks  
 Group 2, Cohort 3A: 56 weeks  
 Group 2, Cohort 3B: 56 weeks  
 Group 2, Cohort 3C: 84 weeks

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: Data were summarised using descriptive statistics by group/cohort. No specific hypothesis testing or comparisons between treatment groups were performed.

| <b>End point values</b>                 | Safety Population Ages 4-17: Group 1 (All Study Periods) | Safety Population Ages 4-17: Group 2, Cohort 1 | Safety Population Ages 4-17: Group 2, Cohort 2 | Safety Population Ages 4-17: Group 2, Cohort 3A |
|---|--|--|--|---|
| Subject group type                      | Subject analysis set                                     | Subject analysis set                           | Subject analysis set                           | Subject analysis set                            |
| Number of subjects analysed             | 100  | 109  | 46   | 31  |
| Units: Percentage of Subjects Reporting |  |  |  |   |
| number (not applicable)                 |  |  |  |   |
| All AEs                                 | 98.0   | 82.6   | 78.3   | 87.1  |
| SAEs                                    | 0  | 0.9  | 0  | 0   |
| Grade 1: Mild                           | 37.0   | 53.2   | 47.8   | 48.4  |
| Grade 2: Moderate                       | 58.0   | 26.6   | 30.4   | 38.7  |
| Grade 3: Severe                         | 3.0  | 2.8  | 0  | 0   |
| Grade 4: Life-Threatening               | 0  | 0  | 0  | 0   |
| Grade 5: Death                          | 0  | 0  | 0  | 0   |

| <b>End point values</b>                 | Safety Population Ages 4-17: Group 2, Cohort 3B | Safety Population Ages 4-17: Group 2, Cohort 3C | Safety Population Ages 4-17: Group 1 (IDE and Updosing) | Safety Population Ages 4-17: Group 1 (Maintenance) |
|---|---|---|---|--|
| Subject group type                      | Subject analysis set                            | Subject analysis set                            | Subject analysis set                                    | Subject analysis set                               |
| Number of subjects analysed             | 31  | 34  | 100   | 85   |
| Units: Percentage of Subjects Reporting |   |   |   |  |
| number (not applicable)                 |   |   |   |  |
| All AEs                                 | 90.3  | 97.1  | 94.0  | 89.4   |
| SAEs                                    | 3.2   | 2.9   | 0   | 0  |
| Grade 1: Mild                           | 41.9  | 35.3  | 41.0  | 52.9   |
| Grade 2: Moderate                       | 48.4  | 52.9  | 51.0  | 35.3   |
| Grade 3: Severe                         | 0   | 8.8   | 2.0   | 1.2  |
| Grade 4: Life-Threatening               | 0   | 0   | 0   | 0  |
| Grade 5: Death                          | 0   | 0   | 0   | 0  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Subjects who tolerated a single dose of 300 mg peanut protein (response rate)

|                        |  |
|------------------------|--|
| End point title        | Subjects who tolerated a single dose of 300 mg peanut protein (response rate)  |
| End point description: | Desensitisation Response Rates at Exit DBPCFC (Completer Population). Maintenance DBPCFC results were used for Group 1 subjects who did not complete the Exit DBPCFC.  |
| End point type         | Other pre-specified  |
| End point timeframe:   | Group 1: Total duration varies, ranging from approximately 88 to 136 weeks<br>Group 2, Cohort 1: 28 weeks<br>Group 2, Cohort 2: 28 weeks<br>Group 2, Cohort 3A: 56 weeks<br>Group 2, Cohort 3B: 56 weeks<br>Group 2, Cohort 3C: 84 weeks |

| End point values                 | Safety Population Ages 4-17: Group 1 (All Study Periods) | Safety Population Ages 4-17: Group 2, Cohort 1 | Safety Population Ages 4-17: Group 2, Cohort 2 | Safety Population Ages 4-17: Group 2, Cohort 3A |
|----------------------------------|--|--|--|---|
| Subject group type               | Subject analysis set                                     | Subject analysis set                           | Subject analysis set                           | Subject analysis set                            |
| Number of subjects analysed      | 72   | 103  | 38   | 26  |
| Units: Percentage of Subjects    |  |  |  |   |
| number (confidence interval 95%) |  |  |  |   |
| Responder %                      | 98.6 (92.5 to 100)                                       | 98.1 (93.2 to 99.8)                            | 94.7 (82.3 to 99.4)                            | 100.0 (86.8 to 100)                             |

| End point values                 | Safety Population Ages 4-17: Group 2, Cohort 3B | Safety Population Ages 4-17: Group 2, Cohort 3C |  |  |
|----------------------------------|---|---|--|--|
| Subject group type               | Subject analysis set                            | Subject analysis set                            |  |  |
| Number of subjects analysed      | 22  | 21  |  |  |
| Units: Percentage of Subjects    |   |   |  |  |
| number (confidence interval 95%) |   |   |  |  |
| Responder %                      | 81.8 (59.7 to 94.8)                             | 90.5 (69.6 to 98.8)                             |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Subjects who tolerated a single dose of 600 mg peanut protein (response rate)

|                        |   |
|------------------------|---|
| End point title        | Subjects who tolerated a single dose of 600 mg peanut protein (response rate)   |
| End point description: | Desensitisation Response Rates at Exit DBPCFC (Completer Population). Maintenance DBPCFC results were used for Group 1 subjects who did not complete the Exit DBPCFC. |

|  |                     |
|--|---------------------|
| End point type   | Other pre-specified |
| End point timeframe:   |                     |
| Group 1: Total duration varies, ranging from approximately 88 to 136 weeks |                     |
| Group 2, Cohort 1: 28 weeks  |                     |
| Group 2, Cohort 2: 28 weeks  |                     |
| Group 2, Cohort 3A: 56 weeks   |                     |
| Group 2, Cohort 3B: 56 weeks   |                     |
| Group 2, Cohort 3C: 84 weeks   |                     |

| End point values                 | Safety Population Ages 4-17: Group 1 (All Study Periods) | Safety Population Ages 4-17: Group 2, Cohort 1 | Safety Population Ages 4-17: Group 2, Cohort 2 | Safety Population Ages 4-17: Group 2, Cohort 3A |
|----------------------------------|--|--|--|---|
| Subject group type               | Subject analysis set                                     | Subject analysis set                           | Subject analysis set                           | Subject analysis set                            |
| Number of subjects analysed      | 72   | 103  | 38   | 26  |
| Units: Percentage of Subjects    |  |  |  |   |
| number (confidence interval 95%) |  |  |  |   |
| Responder %                      | 86.1 (75.9 to 93.1)                                      | 89.3 (81.7 to 94.5)                            | 71.1 (54.1 to 84.6)                            | 96.2 (80.4 to 99.9)                             |

| End point values                 | Safety Population Ages 4-17: Group 2, Cohort 3B | Safety Population Ages 4-17: Group 2, Cohort 3C |  |  |
|----------------------------------|---|---|--|--|
| Subject group type               | Subject analysis set                            | Subject analysis set                            |  |  |
| Number of subjects analysed      | 22  | 21  |  |  |
| Units: Percentage of Subjects    |   |   |  |  |
| number (confidence interval 95%) |   |   |  |  |
| Responder %                      | 77.3 (54.6 to 92.2)                             | 76.2 (52.8 to 91.8)                             |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Subjects who tolerated a single dose of 1000 mg peanut protein (response rate)

|                 |  |
|-----------------|--|
| End point title | Subjects who tolerated a single dose of 1000 mg peanut protein (response rate) |
|-----------------|--|

End point description:

Desensitisation Response Rates at Exit DBPCFC (Completer Population). Maintenance DBPCFC results were used for Group 1 subjects who did not complete the Exit DBPCFC.

|                |                     |
|----------------|---------------------|
| End point type | Other pre-specified |
|----------------|---------------------|

End point timeframe:

Group 1: Total duration varies, ranging from approximately 88 to 136 weeks

Group 2, Cohort 1: 28 weeks

Group 2, Cohort 2: 28 weeks

| <b>End point values</b>          | Safety Population Ages 4-17: Group 1 (All Study Periods) | Safety Population Ages 4-17: Group 2, Cohort 1 | Safety Population Ages 4-17: Group 2, Cohort 2 | Safety Population Ages 4-17: Group 2, Cohort 3A |
|----------------------------------|--|--|--|---|
| Subject group type               | Subject analysis set                                     | Subject analysis set                           | Subject analysis set                           | Subject analysis set                            |
| Number of subjects analysed      | 72   | 103  | 38   | 26  |
| Units: Percentage of Subjects    |  |  |  |   |
| number (confidence interval 95%) |  |  |  |   |
| Responder %                      | 72.2 (60.4 to 82.1)                                      | 80.6 (71.6 to 87.7)                            | 57.9 (40.8 to 73.7)                            | 96.2 (80.4 to 99.9)                             |

| <b>End point values</b>          | Safety Population Ages 4-17: Group 2, Cohort 3B | Safety Population Ages 4-17: Group 2, Cohort 3C |  |  |
|----------------------------------|---|---|--|--|
| Subject group type               | Subject analysis set                            | Subject analysis set                            |  |  |
| Number of subjects analysed      | 22  | 21  |  |  |
| Units: Percentage of Subjects    |   |   |  |  |
| number (confidence interval 95%) |   |   |  |  |
| Responder %                      | 68.2 (45.1 to 86.1)                             | 66.7 (43.0 to 85.4)                             |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Subjects who tolerated a single dose of 2000 mg peanut protein (response rate)

|                 |  |
|-----------------|--|
| End point title | Subjects who tolerated a single dose of 2000 mg peanut protein (response rate) |
|-----------------|--|

End point description:

Desensitisation Response Rates at Exit DBPCFC (Completer Population). Maintenance DBPCFC results were used for Group 1 subjects who did not complete the Exit DBPCFC.

|                |                     |
|----------------|---------------------|
| End point type | Other pre-specified |
|----------------|---------------------|

End point timeframe:

Group 1: Total duration varies, ranging from approximately 88 to 136 weeks

Group 2, Cohort 1: 28 weeks

Group 2, Cohort 2: 28 weeks

Group 2, Cohort 3A: 56 weeks

Group 2, Cohort 3B: 56 weeks

Group 2, Cohort 3C: 84 weeks

| <b>End point values</b>          | Safety Population Ages 4-17: Group 1 (All Study Periods) | Safety Population Ages 4-17: Group 2, Cohort 1 | Safety Population Ages 4-17: Group 2, Cohort 2 | Safety Population Ages 4-17: Group 2, Cohort 3A |
|----------------------------------|--|--|--|---|
| Subject group type               | Subject analysis set                                     | Subject analysis set                           | Subject analysis set                           | Subject analysis set                            |
| Number of subjects analysed      | 72   | 103  | 38   | 26  |
| Units: Percentage of Subjects    |  |  |  |   |
| number (confidence interval 95%) |  |  |  |   |
| Responder %                      | 51.4 (39.3 to 63.3)                                      | 48.5 (38.6 to 58.6)                            | 36.8 (21.8 to 54.0)                            | 80.8 (60.6 to 93.4)                             |

| <b>End point values</b>          | Safety Population Ages 4-17: Group 2, Cohort 3B | Safety Population Ages 4-17: Group 2, Cohort 3C |  |  |
|----------------------------------|---|---|--|--|
| Subject group type               | Subject analysis set                            | Subject analysis set                            |  |  |
| Number of subjects analysed      | 22  | 21  |  |  |
| Units: Percentage of Subjects    |   |   |  |  |
| number (confidence interval 95%) |   |   |  |  |
| Responder %                      | 45.5 (24.4 to 67.8)                             | 42.9 (21.8 to 66.0)                             |  |  |

### Statistical analyses

No statistical analyses for this end point

## Adverse events

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### Adverse events information

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Timeframe for reporting adverse events:

Group 1: Total duration varies, ranging from approximately 88 to 136 weeks

Group 2, Cohort 1: 28 weeks

Group 2, Cohort 2: 28 weeks

Group 2, Cohort 3A: 56 weeks

Group 2, Cohort 3B: 56 weeks

Group 2, Cohort 3C: 84 weeks

|                 |            |
|-----------------|------------|
| Assessment type | Systematic |
|-----------------|------------|

### Dictionary used

|                 |        |
|-----------------|--------|
| Dictionary name | MedDRA |
|-----------------|--------|

|                    |      |
|--------------------|------|
| Dictionary version | 19.1 |
|--------------------|------|

### Reporting groups

|                       |                    |
|-----------------------|--------------------|
| Reporting group title | Group 1 (Age 4-17) |
|-----------------------|--------------------|

Reporting group description:

Group 1 (placebo treated subjects in ARC003): Subjects received AR101 during IDE (day 1, 0.5 to 3 or 6 mg; day 2, 3 mg), up dosing (3 300 mg/day for 22 40 weeks, with dose escalations every 2 weeks), and maintenance (300 mg/day for 24 28 weeks). A DBPCFC after approximately 6 months of maintenance treatment evaluated up to a single highest dose of 2000 mg peanut protein food challenge material (4043 mg cumulative) (hereafter, peanut protein when referring to food challenge material; not AR101). Subjects who tolerated a single highest dose of at least 300 mg in the DBPCFC could receive AR101 during extended maintenance in gradually increasing dosing intervals depending on the results from group 2. The total duration of AR101 treatment in group 1 was 88 to 136 weeks.

|                       |                              |
|-----------------------|------------------------------|
| Reporting group title | Group 2, Cohort 1 (Age 4-17) |
|-----------------------|------------------------------|

Reporting group description:

Group 2, Cohort 1 subjects were the first 120 (approximately) of the AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day (once daily, QD) for 28 weeks.

|                       |                              |
|-----------------------|------------------------------|
| Reporting group title | Group 2, Cohort 2 (Age 4-17) |
|-----------------------|------------------------------|

Reporting group description:

Group 2, Cohort 2 subjects comprised 50(approximately) of the AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every other day (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks for a total of 28 weeks.

|                       |                               |
|-----------------------|-------------------------------|
| Reporting group title | Group 2, Cohort 3A (Age 4-17) |
|-----------------------|-------------------------------|

Reporting group description:

Group 2, Cohort 3A subjects were AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 56 weeks.

|                       |                               |
|-----------------------|-------------------------------|
| Reporting group title | Group 2, Cohort 3B (Age 4-17) |
|-----------------------|-------------------------------|

Reporting group description:

Group 2, Cohort 3B subjects were AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 28 weeks, 300 mg/day every other (QOD) for 4 weeks, then twice weekly (BIW) for 24 weeks (total of 56 weeks).

|                       |                               |
|-----------------------|-------------------------------|
| Reporting group title | Group 2, Cohort 3C (Age 4-17) |
|-----------------------|-------------------------------|

Reporting group description:

Group 2, Cohort 3C subjects were AR101-treated subjects in ARC003 who tolerated  $\geq$  300 mg peanut protein in the exit DBPCFC. These subjects received 300 mg/day every day (QD) for 4 weeks, 300 mg/day every other (QOD) for 4 weeks, twice weekly (BIW) for 24 weeks then once weekly (QW) for 28 weeks (total of 84 weeks).

| <b>Serious adverse events</b>                     | Group 1 (Age 4-17) | Group 2, Cohort 1 (Age 4-17) | Group 2, Cohort 2 (Age 4-17) |
|---|--------------------|------------------------------|------------------------------|
| Total subjects affected by serious adverse events |                    |                              |                              |
| subjects affected / exposed                       | 0 / 100 (0.00%)    | 1 / 109 (0.92%)              | 0 / 46 (0.00%)               |
| number of deaths (all causes)                     | 0                  | 0                            | 0                            |
| number of deaths resulting from adverse events    | 0                  | 0                            | 0                            |
| Injury, poisoning and procedural complications    |                    |                              |                              |
| Humerus fracture                                  |                    |                              |                              |
| subjects affected / exposed                       | 0 / 100 (0.00%)    | 0 / 109 (0.00%)              | 0 / 46 (0.00%)               |
| occurrences causally related to treatment / all   | 0 / 0              | 0 / 0                        | 0 / 0                        |
| deaths causally related to treatment / all        | 0 / 0              | 0 / 0                        | 0 / 0                        |
| Gastrointestinal disorders                        |                    |                              |                              |
| Abdominal pain                                    |                    |                              |                              |
| subjects affected / exposed                       | 0 / 100 (0.00%)    | 0 / 109 (0.00%)              | 0 / 46 (0.00%)               |
| occurrences causally related to treatment / all   | 0 / 0              | 0 / 0                        | 0 / 0                        |
| deaths causally related to treatment / all        | 0 / 0              | 0 / 0                        | 0 / 0                        |
| Infections and infestations                       |                    |                              |                              |
| Streptococcal infection                           |                    |                              |                              |
| subjects affected / exposed                       | 0 / 100 (0.00%)    | 1 / 109 (0.92%)              | 0 / 46 (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                        |
| Metabolism and nutrition disorders                |                    |                              |                              |
| Dehydration                                       |                    |                              |                              |
| subjects affected / exposed                       | 0 / 100 (0.00%)    | 1 / 109 (0.92%)              | 0 / 46 (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                        |

| <b>Serious adverse events</b>                     | Group 2, Cohort 3A (Age 4-17) | Group 2, Cohort 3B (Age 4-17) | Group 2, Cohort 3C (Age 4-17) |
|---|-------------------------------|-------------------------------|-------------------------------|
| Total subjects affected by serious adverse events |                               |                               |                               |
| subjects affected / exposed                       | 0 / 31 (0.00%)                | 1 / 31 (3.23%)                | 1 / 34 (2.94%)                |
| number of deaths (all causes)                     | 0                             | 0                             | 0                             |
| number of deaths resulting from adverse events    | 0                             | 0                             | 0                             |
| Injury, poisoning and procedural complications    |                               |                               |                               |
| Humerus fracture                                  |                               |                               |                               |
| subjects affected / exposed                       | 0 / 31 (0.00%)                | 0 / 31 (0.00%)                | 1 / 34 (2.94%)                |
| occurrences causally related to treatment / all   | 0 / 0                         | 0 / 0                         | 0 / 1                         |
| deaths causally related to treatment / all        | 0 / 0                         | 0 / 0                         | 0 / 0                         |

|   |                |                |                |
|---|----------------|----------------|----------------|
| Gastrointestinal disorders                      |                |                |                |
| Abdominal pain                                  |                |                |                |
| subjects affected / exposed                     | 0 / 31 (0.00%) | 1 / 31 (3.23%) | 0 / 34 (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                     |                |                |                |
| Streptococcal infection                         |                |                |                |
| subjects affected / exposed                     | 0 / 31 (0.00%) | 0 / 31 (0.00%) | 0 / 34 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| Metabolism and nutrition disorders              |                |                |                |
| Dehydration                                     |                |                |                |
| subjects affected / exposed                     | 0 / 31 (0.00%) | 0 / 31 (0.00%) | 0 / 34 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |

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

| <b>Non-serious adverse events</b>                     | Group 1 (Age 4-17) | Group 2, Cohort 1 (Age 4-17) | Group 2, Cohort 2 (Age 4-17) |
|---|--------------------|------------------------------|------------------------------|
| Total subjects affected by non-serious adverse events |                    |                              |                              |
| subjects affected / exposed                           | 98 / 100 (98.00%)  | 90 / 109 (82.57%)            | 36 / 46 (78.26%)             |
| Vascular disorders                                    |                    |                              |                              |
| Flushing  |                    |                              |                              |
| subjects affected / exposed                           | 6 / 100 (6.00%)    | 3 / 109 (2.75%)              | 2 / 46 (4.35%)               |
| occurrences (all)                                     | 6                  | 3                            | 4                            |
| General disorders and administration site conditions  |                    |                              |                              |
| Pyrexia   |                    |                              |                              |
| subjects affected / exposed                           | 24 / 100 (24.00%)  | 20 / 109 (18.35%)            | 4 / 46 (8.70%)               |
| occurrences (all)                                     | 51                 | 27                           | 5                            |
| Influenza like illness                                |                    |                              |                              |
| subjects affected / exposed                           | 1 / 100 (1.00%)    | 0 / 109 (0.00%)              | 1 / 46 (2.17%)               |
| occurrences (all)                                     | 2                  | 0                            | 1                            |
| Malaise   |                    |                              |                              |
| subjects affected / exposed                           | 6 / 100 (6.00%)    | 0 / 109 (0.00%)              | 2 / 46 (4.35%)               |
| occurrences (all)                                     | 10                 | 0                            | 3                            |
| Chest pain  |                    |                              |                              |

|  |                          |                         |                       |
|--|--------------------------|-------------------------|-----------------------|
| subjects affected / exposed<br>occurrences (all)   | 9 / 100 (9.00%)<br>14    | 0 / 109 (0.00%)<br>0    | 1 / 46 (2.17%)<br>3   |
| Fatigue<br>subjects affected / exposed<br>occurrences (all)  | 4 / 100 (4.00%)<br>4     | 2 / 109 (1.83%)<br>2    | 1 / 46 (2.17%)<br>1   |
| Chest discomfort<br>subjects affected / exposed<br>occurrences (all)   | 9 / 100 (9.00%)<br>19    | 3 / 109 (2.75%)<br>4    | 0 / 46 (0.00%)<br>0   |
| Immune system disorders<br>Anaphylactic reaction<br>subjects affected / exposed<br>occurrences (all)             | 17 / 100 (17.00%)<br>22  | 7 / 109 (6.42%)<br>13   | 0 / 46 (0.00%)<br>0   |
| Hypersensitivity<br>subjects affected / exposed<br>occurrences (all)   | 6 / 100 (6.00%)<br>11    | 1 / 109 (0.92%)<br>1    | 1 / 46 (2.17%)<br>1   |
| Seasonal allergy<br>subjects affected / exposed<br>occurrences (all)   | 8 / 100 (8.00%)<br>18    | 2 / 109 (1.83%)<br>2    | 0 / 46 (0.00%)<br>0   |
| Reproductive system and breast<br>disorders<br>Dysmenorrhoea<br>subjects affected / exposed<br>occurrences (all) | 1 / 100 (1.00%)<br>1     | 2 / 109 (1.83%)<br>2    | 1 / 46 (2.17%)<br>2   |
| Respiratory, thoracic and mediastinal<br>disorders<br>Cough<br>subjects affected / exposed<br>occurrences (all)  | 44 / 100 (44.00%)<br>147 | 16 / 109 (14.68%)<br>29 | 8 / 46 (17.39%)<br>15 |
| Throat irritation<br>subjects affected / exposed<br>occurrences (all)  | 32 / 100 (32.00%)<br>753 | 15 / 109 (13.76%)<br>38 | 9 / 46 (19.57%)<br>77 |
| Oropharyngeal pain<br>subjects affected / exposed<br>occurrences (all)   | 23 / 100 (23.00%)<br>82  | 7 / 109 (6.42%)<br>9    | 4 / 46 (8.70%)<br>8   |
| Rhinorrhoea<br>subjects affected / exposed<br>occurrences (all)  | 28 / 100 (28.00%)<br>65  | 7 / 109 (6.42%)<br>23   | 2 / 46 (4.35%)<br>19  |
| Wheezing   |                          |                         |                       |

|   |                         |                       |                      |
|---|-------------------------|-----------------------|----------------------|
| subjects affected / exposed<br>occurrences (all)                            | 17 / 100 (17.00%)<br>54 | 3 / 109 (2.75%)<br>5  | 2 / 46 (4.35%)<br>5  |
| Asthma<br>subjects affected / exposed<br>occurrences (all)                  | 4 / 100 (4.00%)<br>5    | 3 / 109 (2.75%)<br>3  | 4 / 46 (8.70%)<br>12 |
| Nasal congestion<br>subjects affected / exposed<br>occurrences (all)        | 22 / 100 (22.00%)<br>61 | 8 / 109 (7.34%)<br>13 | 6 / 46 (13.04%)<br>8 |
| Dyspnoea<br>subjects affected / exposed<br>occurrences (all)                | 12 / 100 (12.00%)<br>57 | 1 / 109 (0.92%)<br>2  | 1 / 46 (2.17%)<br>2  |
| Sneezing<br>subjects affected / exposed<br>occurrences (all)                | 18 / 100 (18.00%)<br>54 | 8 / 109 (7.34%)<br>24 | 4 / 46 (8.70%)<br>5  |
| Pharyngeal paraesthesia<br>subjects affected / exposed<br>occurrences (all) | 2 / 100 (2.00%)<br>2    | 0 / 109 (0.00%)<br>0  | 1 / 46 (2.17%)<br>1  |
| Rhinitis allergic<br>subjects affected / exposed<br>occurrences (all)       | 7 / 100 (7.00%)<br>48   | 3 / 109 (2.75%)<br>4  | 3 / 46 (6.52%)<br>3  |
| Throat tightness<br>subjects affected / exposed<br>occurrences (all)        | 12 / 100 (12.00%)<br>26 | 1 / 109 (0.92%)<br>2  | 1 / 46 (2.17%)<br>2  |
| Productive cough<br>subjects affected / exposed<br>occurrences (all)        | 2 / 100 (2.00%)<br>3    | 0 / 109 (0.00%)<br>0  | 0 / 46 (0.00%)<br>0  |
| Injury, poisoning and procedural complications                              |                         |                       |                      |
| Arthropod bite<br>subjects affected / exposed<br>occurrences (all)          | 4 / 100 (4.00%)<br>6    | 1 / 109 (0.92%)<br>1  | 0 / 46 (0.00%)<br>0  |
| Arthropod sting<br>subjects affected / exposed<br>occurrences (all)         | 1 / 100 (1.00%)<br>1    | 0 / 109 (0.00%)<br>0  | 0 / 46 (0.00%)<br>0  |
| Procedural pain   |                         |                       |                      |

|  |                      |                      |                     |
|--|----------------------|----------------------|---------------------|
| subjects affected / exposed<br>occurrences (all) | 2 / 100 (2.00%)<br>2 | 1 / 109 (0.92%)<br>1 | 1 / 46 (2.17%)<br>1 |
| Nervous system disorders                         |                      |                      |                     |
| Headache   |                      |                      |                     |
| subjects affected / exposed                      | 27 / 100 (27.00%)    | 12 / 109 (11.01%)    | 12 / 46 (26.09%)    |
| occurrences (all)                                | 69                   | 22                   | 22                  |
| Dizziness  |                      |                      |                     |
| subjects affected / exposed                      | 1 / 100 (1.00%)      | 0 / 109 (0.00%)      | 1 / 46 (2.17%)      |
| occurrences (all)                                | 1                    | 0                    | 1                   |
| Blood and lymphatic system disorders             |                      |                      |                     |
| Lymphadenopathy                                  |                      |                      |                     |
| subjects affected / exposed                      | 2 / 100 (2.00%)      | 0 / 109 (0.00%)      | 0 / 46 (0.00%)      |
| occurrences (all)                                | 3                    | 0                    | 0                   |
| Ear and labyrinth disorders                      |                      |                      |                     |
| Ear pain   |                      |                      |                     |
| subjects affected / exposed                      | 3 / 100 (3.00%)      | 1 / 109 (0.92%)      | 0 / 46 (0.00%)      |
| occurrences (all)                                | 5                    | 1                    | 0                   |
| Ear pruritus                                     |                      |                      |                     |
| subjects affected / exposed                      | 2 / 100 (2.00%)      | 1 / 109 (0.92%)      | 3 / 46 (6.52%)      |
| occurrences (all)                                | 3                    | 3                    | 9                   |
| Eye disorders                                    |                      |                      |                     |
| Eye pruritus                                     |                      |                      |                     |
| subjects affected / exposed                      | 8 / 100 (8.00%)      | 5 / 109 (4.59%)      | 4 / 46 (8.70%)      |
| occurrences (all)                                | 16                   | 6                    | 4                   |
| Gastrointestinal disorders                       |                      |                      |                     |
| Abdominal pain                                   |                      |                      |                     |
| subjects affected / exposed                      | 38 / 100 (38.00%)    | 11 / 109 (10.09%)    | 7 / 46 (15.22%)     |
| occurrences (all)                                | 315                  | 22                   | 13                  |
| Vomiting   |                      |                      |                     |
| subjects affected / exposed                      | 42 / 100 (42.00%)    | 18 / 109 (16.51%)    | 6 / 46 (13.04%)     |
| occurrences (all)                                | 116                  | 32                   | 10                  |
| Oral pruritus                                    |                      |                      |                     |
| subjects affected / exposed                      | 17 / 100 (17.00%)    | 6 / 109 (5.50%)      | 5 / 46 (10.87%)     |
| occurrences (all)                                | 354                  | 232                  | 40                  |
| Nausea   |                      |                      |                     |
| subjects affected / exposed                      | 33 / 100 (33.00%)    | 9 / 109 (8.26%)      | 9 / 46 (19.57%)     |
| occurrences (all)                                | 241                  | 15                   | 14                  |

|  |                          |                         |                       |
|--|--------------------------|-------------------------|-----------------------|
| Abdominal pain upper<br>subjects affected / exposed<br>occurrences (all) | 31 / 100 (31.00%)<br>223 | 9 / 109 (8.26%)<br>136  | 6 / 46 (13.04%)<br>75 |
| Lip pruritus<br>subjects affected / exposed<br>occurrences (all)         | 11 / 100 (11.00%)<br>88  | 3 / 109 (2.75%)<br>4    | 2 / 46 (4.35%)<br>12  |
| Lip swelling<br>subjects affected / exposed<br>occurrences (all)         | 8 / 100 (8.00%)<br>11    | 3 / 109 (2.75%)<br>3    | 4 / 46 (8.70%)<br>5   |
| Paraesthesia oral<br>subjects affected / exposed<br>occurrences (all)    | 6 / 100 (6.00%)<br>62    | 0 / 109 (0.00%)<br>0    | 2 / 46 (4.35%)<br>2   |
| Abdominal discomfort<br>subjects affected / exposed<br>occurrences (all) | 17 / 100 (17.00%)<br>46  | 6 / 109 (5.50%)<br>20   | 5 / 46 (10.87%)<br>20 |
| Diarrhoea<br>subjects affected / exposed<br>occurrences (all)            | 10 / 100 (10.00%)<br>67  | 5 / 109 (4.59%)<br>11   | 1 / 46 (2.17%)<br>4   |
| Tongue pruritus<br>subjects affected / exposed<br>occurrences (all)      | 11 / 100 (11.00%)<br>114 | 3 / 109 (2.75%)<br>5    | 1 / 46 (2.17%)<br>6   |
| Toothache<br>subjects affected / exposed<br>occurrences (all)            | 5 / 100 (5.00%)<br>5     | 0 / 109 (0.00%)<br>0    | 1 / 46 (2.17%)<br>2   |
| Oral discomfort<br>subjects affected / exposed<br>occurrences (all)      | 1 / 100 (1.00%)<br>5     | 1 / 109 (0.92%)<br>1    | 0 / 46 (0.00%)<br>0   |
| Skin and subcutaneous tissue disorders                                   |                          |                         |                       |
| Urticaria<br>subjects affected / exposed<br>occurrences (all)            | 37 / 100 (37.00%)<br>96  | 16 / 109 (14.68%)<br>32 | 6 / 46 (13.04%)<br>12 |
| Pruritus<br>subjects affected / exposed<br>occurrences (all)             | 19 / 100 (19.00%)<br>47  | 7 / 109 (6.42%)<br>11   | 6 / 46 (13.04%)<br>10 |
| Rash   |                          |                         |                       |

|   |                   |                   |                 |
|---|-------------------|-------------------|-----------------|
| subjects affected / exposed                     | 14 / 100 (14.00%) | 6 / 109 (5.50%)   | 1 / 46 (2.17%)  |
| occurrences (all)                               | 16                | 6                 | 1               |
| Eczema  |                   |                   |                 |
| subjects affected / exposed                     | 7 / 100 (7.00%)   | 2 / 109 (1.83%)   | 1 / 46 (2.17%)  |
| occurrences (all)                               | 10                | 2                 | 1               |
| Dermatitis atopic                               |                   |                   |                 |
| subjects affected / exposed                     | 3 / 100 (3.00%)   | 0 / 109 (0.00%)   | 0 / 46 (0.00%)  |
| occurrences (all)                               | 3                 | 0                 | 0               |
| Swelling face                                   |                   |                   |                 |
| subjects affected / exposed                     | 1 / 100 (1.00%)   | 1 / 109 (0.92%)   | 1 / 46 (2.17%)  |
| occurrences (all)                               | 1                 | 1                 | 1               |
| Erythema  |                   |                   |                 |
| subjects affected / exposed                     | 8 / 100 (8.00%)   | 1 / 109 (0.92%)   | 1 / 46 (2.17%)  |
| occurrences (all)                               | 26                | 1                 | 1               |
| Musculoskeletal and connective tissue disorders |                   |                   |                 |
| Arthralgia                                      |                   |                   |                 |
| subjects affected / exposed                     | 2 / 100 (2.00%)   | 2 / 109 (1.83%)   | 0 / 46 (0.00%)  |
| occurrences (all)                               | 2                 | 2                 | 0               |
| Infections and infestations                     |                   |                   |                 |
| Nasopharyngitis                                 |                   |                   |                 |
| subjects affected / exposed                     | 16 / 100 (16.00%) | 5 / 109 (4.59%)   | 5 / 46 (10.87%) |
| occurrences (all)                               | 31                | 9                 | 7               |
| Upper respiratory tract infection               |                   |                   |                 |
| subjects affected / exposed                     | 23 / 100 (23.00%) | 20 / 109 (18.35%) | 6 / 46 (13.04%) |
| occurrences (all)                               | 49                | 27                | 7               |
| Sinusitis                                       |                   |                   |                 |
| subjects affected / exposed                     | 6 / 100 (6.00%)   | 2 / 109 (1.83%)   | 1 / 46 (2.17%)  |
| occurrences (all)                               | 8                 | 2                 | 1               |
| Viral infection                                 |                   |                   |                 |
| subjects affected / exposed                     | 10 / 100 (10.00%) | 9 / 109 (8.26%)   | 1 / 46 (2.17%)  |
| occurrences (all)                               | 13                | 12                | 1               |
| Conjunctivitis                                  |                   |                   |                 |
| subjects affected / exposed                     | 4 / 100 (4.00%)   | 1 / 109 (0.92%)   | 0 / 46 (0.00%)  |
| occurrences (all)                               | 5                 | 1                 | 0               |
| Gastroenteritis                                 |                   |                   |                 |

|   |                       |                      |                      |
|---|-----------------------|----------------------|----------------------|
| subjects affected / exposed<br>occurrences (all)  | 5 / 100 (5.00%)<br>5  | 2 / 109 (1.83%)<br>2 | 1 / 46 (2.17%)<br>1  |
| Influenza<br>subjects affected / exposed<br>occurrences (all)                               | 7 / 100 (7.00%)<br>8  | 7 / 109 (6.42%)<br>7 | 1 / 46 (2.17%)<br>1  |
| Rhinitis<br>subjects affected / exposed<br>occurrences (all)                                | 6 / 100 (6.00%)<br>11 | 1 / 109 (0.92%)<br>1 | 0 / 46 (0.00%)<br>0  |
| Gastrointestinal viral infection<br>subjects affected / exposed<br>occurrences (all)        | 2 / 100 (2.00%)<br>2  | 0 / 109 (0.00%)<br>0 | 0 / 46 (0.00%)<br>0  |
| Tonsillitis<br>subjects affected / exposed<br>occurrences (all)                             | 2 / 100 (2.00%)<br>2  | 0 / 109 (0.00%)<br>0 | 0 / 46 (0.00%)<br>0  |
| Gastroenteritis viral<br>subjects affected / exposed<br>occurrences (all)                   | 9 / 100 (9.00%)<br>12 | 7 / 109 (6.42%)<br>7 | 1 / 46 (2.17%)<br>1  |
| Viral upper respiratory tract infection<br>subjects affected / exposed<br>occurrences (all) | 4 / 100 (4.00%)<br>4  | 5 / 109 (4.59%)<br>6 | 0 / 46 (0.00%)<br>0  |
| Ear infection<br>subjects affected / exposed<br>occurrences (all)                           | 2 / 100 (2.00%)<br>2  | 4 / 109 (3.67%)<br>5 | 3 / 46 (6.52%)<br>3  |
| Pharyngitis streptococcal<br>subjects affected / exposed<br>occurrences (all)               | 4 / 100 (4.00%)<br>4  | 5 / 109 (4.59%)<br>5 | 5 / 46 (10.87%)<br>8 |
| Respiratory tract infection viral<br>subjects affected / exposed<br>occurrences (all)       | 1 / 100 (1.00%)<br>1  | 0 / 109 (0.00%)<br>0 | 0 / 46 (0.00%)<br>0  |

| <b>Non-serious adverse events</b>                        | Group 2, Cohort 3A<br>(Age 4-17) | Group 2, Cohort 3B<br>(Age 4-17) | Group 2, Cohort 3C<br>(Age 4-17) |
|--|----------------------------------|----------------------------------|----------------------------------|
| Total subjects affected by non-serious<br>adverse events |                                  |                                  |                                  |
| subjects affected / exposed                              | 27 / 31 (87.10%)                 | 28 / 31 (90.32%)                 | 33 / 34 (97.06%)                 |
| Vascular disorders                                       |                                  |                                  |                                  |
| Flushing   |                                  |                                  |                                  |

|   |                     |                     |                     |
|---|---------------------|---------------------|---------------------|
| subjects affected / exposed<br>occurrences (all)        | 0 / 31 (0.00%)<br>0 | 0 / 31 (0.00%)<br>0 | 0 / 34 (0.00%)<br>0 |
| General disorders and administration<br>site conditions |                     |                     |                     |
| Pyrexia   |                     |                     |                     |
| subjects affected / exposed                             | 8 / 31 (25.81%)     | 6 / 31 (19.35%)     | 13 / 34 (38.24%)    |
| occurrences (all)                                       | 19                  | 14                  | 24                  |
| Influenza like illness                                  |                     |                     |                     |
| subjects affected / exposed                             | 2 / 31 (6.45%)      | 0 / 31 (0.00%)      | 2 / 34 (5.88%)      |
| occurrences (all)                                       | 2                   | 0                   | 2                   |
| Malaise   |                     |                     |                     |
| subjects affected / exposed                             | 4 / 31 (12.90%)     | 0 / 31 (0.00%)      | 2 / 34 (5.88%)      |
| occurrences (all)                                       | 4                   | 0                   | 2                   |
| Chest pain  |                     |                     |                     |
| subjects affected / exposed                             | 0 / 31 (0.00%)      | 1 / 31 (3.23%)      | 1 / 34 (2.94%)      |
| occurrences (all)                                       | 0                   | 1                   | 1                   |
| Fatigue   |                     |                     |                     |
| subjects affected / exposed                             | 2 / 31 (6.45%)      | 0 / 31 (0.00%)      | 1 / 34 (2.94%)      |
| occurrences (all)                                       | 2                   | 0                   | 1                   |
| Chest discomfort  |                     |                     |                     |
| subjects affected / exposed                             | 1 / 31 (3.23%)      | 1 / 31 (3.23%)      | 0 / 34 (0.00%)      |
| occurrences (all)                                       | 1                   | 2                   | 0                   |
| Immune system disorders                                 |                     |                     |                     |
| Anaphylactic reaction                                   |                     |                     |                     |
| subjects affected / exposed                             | 5 / 31 (16.13%)     | 2 / 31 (6.45%)      | 10 / 34 (29.41%)    |
| occurrences (all)                                       | 14                  | 2                   | 13                  |
| Hypersensitivity  |                     |                     |                     |
| subjects affected / exposed                             | 5 / 31 (16.13%)     | 2 / 31 (6.45%)      | 3 / 34 (8.82%)      |
| occurrences (all)                                       | 8                   | 2                   | 3                   |
| Seasonal allergy  |                     |                     |                     |
| subjects affected / exposed                             | 2 / 31 (6.45%)      | 2 / 31 (6.45%)      | 1 / 34 (2.94%)      |
| occurrences (all)                                       | 2                   | 4                   | 3                   |
| Reproductive system and breast<br>disorders             |                     |                     |                     |
| Dysmenorrhoea   |                     |                     |                     |
| subjects affected / exposed                             | 2 / 31 (6.45%)      | 1 / 31 (3.23%)      | 0 / 34 (0.00%)      |
| occurrences (all)                                       | 4                   | 5                   | 0                   |
| Respiratory, thoracic and mediastinal                   |                     |                     |                     |

|                             |                 |                  |                  |
|-----------------------------|-----------------|------------------|------------------|
| disorders                   |                 |                  |                  |
| Cough                       |                 |                  |                  |
| subjects affected / exposed | 8 / 31 (25.81%) | 10 / 31 (32.26%) | 16 / 34 (47.06%) |
| occurrences (all)           | 57              | 40               | 47               |
| Throat irritation           |                 |                  |                  |
| subjects affected / exposed | 5 / 31 (16.13%) | 5 / 31 (16.13%)  | 9 / 34 (26.47%)  |
| occurrences (all)           | 14              | 6                | 289              |
| Oropharyngeal pain          |                 |                  |                  |
| subjects affected / exposed | 7 / 31 (22.58%) | 6 / 31 (19.35%)  | 8 / 34 (23.53%)  |
| occurrences (all)           | 28              | 11               | 12               |
| Rhinorrhoea                 |                 |                  |                  |
| subjects affected / exposed | 3 / 31 (9.68%)  | 4 / 31 (12.90%)  | 7 / 34 (20.59%)  |
| occurrences (all)           | 15              | 10               | 22               |
| Wheezing                    |                 |                  |                  |
| subjects affected / exposed | 2 / 31 (6.45%)  | 2 / 31 (6.45%)   | 7 / 34 (20.59%)  |
| occurrences (all)           | 12              | 3                | 10               |
| Asthma                      |                 |                  |                  |
| subjects affected / exposed | 0 / 31 (0.00%)  | 4 / 31 (12.90%)  | 6 / 34 (17.65%)  |
| occurrences (all)           | 0               | 7                | 8                |
| Nasal congestion            |                 |                  |                  |
| subjects affected / exposed | 2 / 31 (6.45%)  | 4 / 31 (12.90%)  | 6 / 34 (17.65%)  |
| occurrences (all)           | 37              | 15               | 14               |
| Dyspnoea                    |                 |                  |                  |
| subjects affected / exposed | 3 / 31 (9.68%)  | 5 / 31 (16.13%)  | 5 / 34 (14.71%)  |
| occurrences (all)           | 5               | 5                | 7                |
| Sneezing                    |                 |                  |                  |
| subjects affected / exposed | 3 / 31 (9.68%)  | 4 / 31 (12.90%)  | 4 / 34 (11.76%)  |
| occurrences (all)           | 7               | 14               | 11               |
| Pharyngeal paraesthesia     |                 |                  |                  |
| subjects affected / exposed | 0 / 31 (0.00%)  | 1 / 31 (3.23%)   | 3 / 34 (8.82%)   |
| occurrences (all)           | 0               | 1                | 5                |
| Rhinitis allergic           |                 |                  |                  |
| subjects affected / exposed | 0 / 31 (0.00%)  | 1 / 31 (3.23%)   | 2 / 34 (5.88%)   |
| occurrences (all)           | 0               | 2                | 2                |
| Throat tightness            |                 |                  |                  |

|  |                       |                       |                        |
|--|-----------------------|-----------------------|------------------------|
| subjects affected / exposed<br>occurrences (all)                     | 0 / 31 (0.00%)<br>0   | 2 / 31 (6.45%)<br>2   | 2 / 34 (5.88%)<br>2    |
| Productive cough<br>subjects affected / exposed<br>occurrences (all) | 2 / 31 (6.45%)<br>4   | 1 / 31 (3.23%)<br>2   | 0 / 34 (0.00%)<br>0    |
| Injury, poisoning and procedural complications                       |                       |                       |                        |
| Arthropod bite<br>subjects affected / exposed<br>occurrences (all)   | 1 / 31 (3.23%)<br>1   | 1 / 31 (3.23%)<br>1   | 3 / 34 (8.82%)<br>4    |
| Arthropod sting<br>subjects affected / exposed<br>occurrences (all)  | 0 / 31 (0.00%)<br>0   | 0 / 31 (0.00%)<br>0   | 2 / 34 (5.88%)<br>2    |
| Procedural pain<br>subjects affected / exposed<br>occurrences (all)  | 1 / 31 (3.23%)<br>1   | 2 / 31 (6.45%)<br>4   | 1 / 34 (2.94%)<br>1    |
| Nervous system disorders   |                       |                       |                        |
| Headache<br>subjects affected / exposed<br>occurrences (all)         | 8 / 31 (25.81%)<br>19 | 5 / 31 (16.13%)<br>12 | 14 / 34 (41.18%)<br>51 |
| Dizziness<br>subjects affected / exposed<br>occurrences (all)        | 0 / 31 (0.00%)<br>0   | 0 / 31 (0.00%)<br>0   | 2 / 34 (5.88%)<br>2    |
| Blood and lymphatic system disorders                                 |                       |                       |                        |
| Lymphadenopathy<br>subjects affected / exposed<br>occurrences (all)  | 0 / 31 (0.00%)<br>0   | 1 / 31 (3.23%)<br>3   | 2 / 34 (5.88%)<br>2    |
| Ear and labyrinth disorders  |                       |                       |                        |
| Ear pain<br>subjects affected / exposed<br>occurrences (all)         | 1 / 31 (3.23%)<br>1   | 0 / 31 (0.00%)<br>0   | 3 / 34 (8.82%)<br>4    |
| Ear pruritus<br>subjects affected / exposed<br>occurrences (all)     | 1 / 31 (3.23%)<br>1   | 0 / 31 (0.00%)<br>0   | 1 / 34 (2.94%)<br>2    |
| Eye disorders  |                       |                       |                        |
| Eye pruritus   |                       |                       |                        |

|  |                       |                       |                        |
|--|-----------------------|-----------------------|------------------------|
| subjects affected / exposed<br>occurrences (all)                         | 1 / 31 (3.23%)<br>1   | 3 / 31 (9.68%)<br>4   | 6 / 34 (17.65%)<br>36  |
| <b>Gastrointestinal disorders</b>  |                       |                       |                        |
| Abdominal pain<br>subjects affected / exposed<br>occurrences (all)       | 5 / 31 (16.13%)<br>43 | 7 / 31 (22.58%)<br>14 | 16 / 34 (47.06%)<br>95 |
| Vomiting<br>subjects affected / exposed<br>occurrences (all)             | 6 / 31 (19.35%)<br>8  | 9 / 31 (29.03%)<br>21 | 9 / 34 (26.47%)<br>25  |
| Oral pruritus<br>subjects affected / exposed<br>occurrences (all)        | 4 / 31 (12.90%)<br>10 | 3 / 31 (9.68%)<br>9   | 7 / 34 (20.59%)<br>16  |
| Nausea<br>subjects affected / exposed<br>occurrences (all)               | 5 / 31 (16.13%)<br>5  | 5 / 31 (16.13%)<br>9  | 5 / 34 (14.71%)<br>12  |
| Abdominal pain upper<br>subjects affected / exposed<br>occurrences (all) | 5 / 31 (16.13%)<br>28 | 6 / 31 (19.35%)<br>10 | 4 / 34 (11.76%)<br>8   |
| Lip pruritus<br>subjects affected / exposed<br>occurrences (all)         | 2 / 31 (6.45%)<br>4   | 3 / 31 (9.68%)<br>13  | 4 / 34 (11.76%)<br>31  |
| Lip swelling<br>subjects affected / exposed<br>occurrences (all)         | 3 / 31 (9.68%)<br>16  | 2 / 31 (6.45%)<br>2   | 4 / 34 (11.76%)<br>24  |
| Paraesthesia oral<br>subjects affected / exposed<br>occurrences (all)    | 2 / 31 (6.45%)<br>2   | 2 / 31 (6.45%)<br>3   | 4 / 34 (11.76%)<br>237 |
| Abdominal discomfort<br>subjects affected / exposed<br>occurrences (all) | 0 / 31 (0.00%)<br>0   | 2 / 31 (6.45%)<br>5   | 3 / 34 (8.82%)<br>4    |
| Diarrhoea<br>subjects affected / exposed<br>occurrences (all)            | 4 / 31 (12.90%)<br>15 | 4 / 31 (12.90%)<br>9  | 2 / 34 (5.88%)<br>3    |
| Tongue pruritus<br>subjects affected / exposed<br>occurrences (all)      | 2 / 31 (6.45%)<br>3   | 0 / 31 (0.00%)<br>0   | 2 / 34 (5.88%)<br>43   |

|   |                       |                      |                       |
|---|-----------------------|----------------------|-----------------------|
| Toothache<br>subjects affected / exposed<br>occurrences (all)         | 1 / 31 (3.23%)<br>2   | 0 / 31 (0.00%)<br>0  | 2 / 34 (5.88%)<br>2   |
| Oral discomfort<br>subjects affected / exposed<br>occurrences (all)   | 0 / 31 (0.00%)<br>0   | 3 / 31 (9.68%)<br>4  | 1 / 34 (2.94%)<br>1   |
| <b>Skin and subcutaneous tissue disorders</b>                         |                       |                      |                       |
| Urticaria<br>subjects affected / exposed<br>occurrences (all)         | 7 / 31 (22.58%)<br>34 | 6 / 31 (19.35%)<br>9 | 9 / 34 (26.47%)<br>19 |
| Pruritus<br>subjects affected / exposed<br>occurrences (all)          | 1 / 31 (3.23%)<br>2   | 7 / 31 (22.58%)<br>8 | 5 / 34 (14.71%)<br>12 |
| Rash<br>subjects affected / exposed<br>occurrences (all)              | 1 / 31 (3.23%)<br>1   | 3 / 31 (9.68%)<br>3  | 5 / 34 (14.71%)<br>6  |
| Eczema<br>subjects affected / exposed<br>occurrences (all)            | 2 / 31 (6.45%)<br>4   | 3 / 31 (9.68%)<br>4  | 3 / 34 (8.82%)<br>3   |
| Dermatitis atopic<br>subjects affected / exposed<br>occurrences (all) | 0 / 31 (0.00%)<br>0   | 0 / 31 (0.00%)<br>0  | 2 / 34 (5.88%)<br>9   |
| Swelling face<br>subjects affected / exposed<br>occurrences (all)     | 1 / 31 (3.23%)<br>1   | 0 / 31 (0.00%)<br>0  | 2 / 34 (5.88%)<br>2   |
| Erythema<br>subjects affected / exposed<br>occurrences (all)          | 1 / 31 (3.23%)<br>1   | 3 / 31 (9.68%)<br>7  | 1 / 34 (2.94%)<br>2   |
| <b>Musculoskeletal and connective tissue disorders</b>                |                       |                      |                       |
| Arthralgia<br>subjects affected / exposed<br>occurrences (all)        | 2 / 31 (6.45%)<br>2   | 1 / 31 (3.23%)<br>1  | 1 / 34 (2.94%)<br>2   |
| <b>Infections and infestations</b>                                    |                       |                      |                       |
| Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all)   | 5 / 31 (16.13%)<br>5  | 5 / 31 (16.13%)<br>7 | 9 / 34 (26.47%)<br>18 |

|   |                      |                       |                       |
|---|----------------------|-----------------------|-----------------------|
| Upper respiratory tract infection<br>subjects affected / exposed<br>occurrences (all)       | 3 / 31 (9.68%)<br>7  | 5 / 31 (16.13%)<br>11 | 7 / 34 (20.59%)<br>17 |
| Sinusitis<br>subjects affected / exposed<br>occurrences (all)                               | 0 / 31 (0.00%)<br>0  | 1 / 31 (3.23%)<br>1   | 4 / 34 (11.76%)<br>4  |
| Viral infection<br>subjects affected / exposed<br>occurrences (all)                         | 5 / 31 (16.13%)<br>7 | 1 / 31 (3.23%)<br>1   | 4 / 34 (11.76%)<br>11 |
| Conjunctivitis<br>subjects affected / exposed<br>occurrences (all)                          | 0 / 31 (0.00%)<br>0  | 0 / 31 (0.00%)<br>0   | 3 / 34 (8.82%)<br>3   |
| Gastroenteritis<br>subjects affected / exposed<br>occurrences (all)                         | 0 / 31 (0.00%)<br>0  | 3 / 31 (9.68%)<br>4   | 3 / 34 (8.82%)<br>5   |
| Influenza<br>subjects affected / exposed<br>occurrences (all)                               | 1 / 31 (3.23%)<br>1  | 5 / 31 (16.13%)<br>5  | 3 / 34 (8.82%)<br>3   |
| Rhinitis<br>subjects affected / exposed<br>occurrences (all)                                | 1 / 31 (3.23%)<br>3  | 1 / 31 (3.23%)<br>1   | 3 / 34 (8.82%)<br>4   |
| Gastrointestinal viral infection<br>subjects affected / exposed<br>occurrences (all)        | 0 / 31 (0.00%)<br>0  | 0 / 31 (0.00%)<br>0   | 2 / 34 (5.88%)<br>2   |
| Tonsillitis<br>subjects affected / exposed<br>occurrences (all)                             | 1 / 31 (3.23%)<br>1  | 0 / 31 (0.00%)<br>0   | 2 / 34 (5.88%)<br>2   |
| Gastroenteritis viral<br>subjects affected / exposed<br>occurrences (all)                   | 0 / 31 (0.00%)<br>0  | 2 / 31 (6.45%)<br>3   | 1 / 34 (2.94%)<br>1   |
| Viral upper respiratory tract infection<br>subjects affected / exposed<br>occurrences (all) | 0 / 31 (0.00%)<br>0  | 2 / 31 (6.45%)<br>2   | 1 / 34 (2.94%)<br>1   |
| Ear infection<br>subjects affected / exposed<br>occurrences (all)                           | 3 / 31 (9.68%)<br>6  | 1 / 31 (3.23%)<br>1   | 0 / 34 (0.00%)<br>0   |

|   |                     |                     |                     |
|---|---------------------|---------------------|---------------------|
| Pharyngitis streptococcal<br>subjects affected / exposed<br>occurrences (all)         | 3 / 31 (9.68%)<br>4 | 1 / 31 (3.23%)<br>1 | 0 / 34 (0.00%)<br>0 |
| Respiratory tract infection viral<br>subjects affected / exposed<br>occurrences (all) | 0 / 31 (0.00%)<br>0 | 2 / 31 (6.45%)<br>2 | 0 / 34 (0.00%)<br>0 |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date             | Amendment   |
|------------------|---|
| 28 October 2016  | <ul style="list-style-type: none"><li>Text and schematic modified to clarify procedures.</li></ul>  |
| 07 February 2017 | <ul style="list-style-type: none"><li>Changed the up dosing period duration from 20 to 40 weeks to 22 to 40 weeks for accuracy based on the dosing intervals.</li><li>Defined severe adverse events and adverse events associated with epinephrine use as adverse events of clinical interest.</li><li>Added:<ul style="list-style-type: none"><li>a 4 week QOD dosing interval before transitioning to BIW dosing.</li><li>instructions for adjusting doses and managing missed doses for nondaily dosing regimens.</li><li>an allowance for screening procedures to be performed over 3 consecutive days</li><li>instructions for reporting an accidental food allergen exposure.</li><li>rationale and formula for cohort stopping rules.</li><li>that an adjudication committee will be used in the safety monitoring committee.</li></ul></li><li>Text modified to clarify procedures.</li></ul> |
| 12 June 2017     | <ul style="list-style-type: none"><li>Changed the interval extension periods for group 1 extended maintenance from 8 to 24 weeks to 8 to 28 weeks.</li><li>Added:<ul style="list-style-type: none"><li>instructions for repeat up dosing for group 2 subjects who did not tolerate nondaily dosing.</li><li>guidelines for modifying QD dosing for group 1.</li><li>guidance for continuation of treatment for subjects with severe symptoms.</li><li>requirement to counsel and provide contraception information to postmenarchal subjects.</li><li>both parents must sign the informed consent form when required.</li><li>study product shipment and dispensation information.</li><li>subjects should not administer AR101 on the day of the DBPCFC.</li><li>end of study definition.</li></ul></li><li>Text modified to clarify procedures.</li></ul>   |
| 05 March 2018    | <ul style="list-style-type: none"><li>Text modified to clarify procedures.</li></ul>  |
| 12 April 2018    | <ul style="list-style-type: none"><li>Added a maximum 26 week requirement for completion of repeat up dosing.</li><li>Text modified to clarify procedures and correct discrepancies.</li></ul>  |

Notes:

### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported