



Clinical trial results:

An Open-Label, Multicenter, Single-arm Study to Evaluate the Immunogenicity of VARIVAX™ in Healthy Russian Individuals 12 Months of Age and Older

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2019-003903-36 |
| Trial protocol | Outside EU/EEA |
| Global end of trial date | 19 June 2020 |

Results information

| | |
|--------------------------------|------------------|
| Result version number | v2 (current) |
| This version publication date | 12 March 2021 |
| First version publication date | 20 December 2020 |
| Version creation reason | |

Trial information

Trial identification

| | |
|-----------------------|----------|
| Sponsor protocol code | V210-058 |
|-----------------------|----------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT03843632 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Merck Sharp & Dohme Corp. |
| Sponsor organisation address | 2000 Galloping Hill Road, Kenilworth, NJ, United States, 07033 |
| Public contact | Clinical Trials Disclosure, Merck Sharp & Dohme Corp., ClinicalTrialsDisclosure@merck.com |
| Scientific contact | Clinical Trials Disclosure, Merck Sharp & Dohme Corp., ClinicalTrialsDisclosure@merck.com |

Notes:

Paediatric regulatory details

| | |
|--|-----|
| Is trial part of an agreed paediatric investigation plan (PIP) | No |
| Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial? | No |
| Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial? | Yes |

Notes:

Results analysis stage

| | |
|--|--------------|
| Analysis stage | Final |
| Date of interim/final analysis | 19 June 2020 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 19 June 2020 |
| Global end of trial reached? | Yes |
| Global end of trial date | 19 June 2020 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The purpose of this study was to evaluate the immunogenicity of VARIVAX™ vaccine in healthy Russian children, adolescents, and adults. No formal hypothesis was tested.

Protection of trial subjects:

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

Background therapy: -

Evidence for comparator: -

| | |
|---|---------------|
| Actual start date of recruitment | 01 March 2019 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|-------------------------|
| Country: Number of subjects enrolled | Russian Federation: 150 |
| Worldwide total number of subjects | 150 |
| EEA total number of subjects | 0 |

Notes:

Subjects enrolled per age group

| | |
|---|----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 64 |
| Adolescents (12-17 years) | 36 |
| Adults (18-64 years) | 50 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

This study enrolled healthy Russians aged 12 months and older. Additional inclusion criteria applied.

Pre-assignment

Screening details:

150 participants were enrolled and received VARIVAX™ on study. Adults and Adolescents received 2 vaccinations on study and children received 1 vaccination.

Period 1

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

Arms

| | |
|------------------------------|---------------------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | VARIVAX Adults (18 to 75 years) |

Arm description:

Participants aged 18 to 75 years of age received 2 doses of VARIVAX™ administered approximately six weeks apart: one 0.5 mL dose of VARIVAX™ administered by subcutaneous (SC) injection on Day 1, and a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43.

| | |
|--|------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | VARIVAX™ |
| Investigational medicinal product code | |
| Other name | Varicella Virus Vaccine Live |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

All participants received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1. Adult participants and adolescent participants 13 to 17 years of age also received a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43.

| | |
|------------------|--|
| Arm title | VARIVAX™ Adolescents 13 to 17 years of age |
|------------------|--|

Arm description:

Participants aged 13 to 17 years of age received 2 doses of VARIVAX™ administered approximately six weeks apart: one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1, and a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43.

| | |
|--|------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | VARIVAX™ |
| Investigational medicinal product code | |
| Other name | Varicella Virus Vaccine Live |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

All participants received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1. Adult participants and adolescent participants 13 to 17 years of age also received a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43.

| | |
|------------------|--|
| Arm title | VARIVAX™ Children 7 to 12 years of age |
|------------------|--|

Arm description:

Participants aged 7 to 12 years of age received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1.

| | |
|----------|--------------|
| Arm type | Experimental |
|----------|--------------|

| | |
|--|---|
| Investigational medicinal product name | VARIVAX |
| Investigational medicinal product code | |
| Other name | Varicella Virus Vaccine Live |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Subcutaneous use |
| Dosage and administration details: | |
| All participants received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1. | |
| Arm title | VARIVAX™ Children 12 months to 6 years of age |

Arm description:

Participants aged 12 months to 6 years of age received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1.

| | |
|--|------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | VARIVAX |
| Investigational medicinal product code | |
| Other name | Varicella Virus Vaccine Live |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

All participants received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1.

| Number of subjects in period 1 | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age |
|---------------------------------------|---------------------------------|--|--|
| Started | 50 | 30 | 33 |
| Vaccination 1 | 50 | 30 | 33 |
| Vaccination 2 | 49 | 30 | 0 ^[1] |
| Completed | 49 | 30 | 33 |
| Not completed | 1 | 0 | 0 |
| Consent withdrawn by subject | 1 | - | - |

| Number of subjects in period 1 | VARIVAX™ Children 12 months to 6 years of age |
|---------------------------------------|---|
| Started | 37 |
| Vaccination 1 | 37 |
| Vaccination 2 | 0 ^[2] |
| Completed | 37 |
| Not completed | 0 |
| Consent withdrawn by subject | - |

Notes:

[1] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: Only adults and adolescents 13 to 17 years of age received Vaccination 2.

[2] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: Only adults and adolescents 13 to 17 years of age received Vaccination 2.

Baseline characteristics

Reporting groups

| | |
|--|---|
| Reporting group title | VARIVAX Adults (18 to 75 years) |
| Reporting group description: Participants aged 18 to 75 years of age received 2 doses of VARIVAX™ administered approximately six weeks apart: one 0.5 mL dose of VARIVAX™ administered by subcutaneous (SC) injection on Day 1, and a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43. | |
| Reporting group title | VARIVAX™ Adolescents 13 to 17 years of age |
| Reporting group description: Participants aged 13 to 17 years of age received 2 doses of VARIVAX™ administered approximately six weeks apart: one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1, and a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43. | |
| Reporting group title | VARIVAX™ Children 7 to 12 years of age |
| Reporting group description: Participants aged 7 to 12 years of age received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1. | |
| Reporting group title | VARIVAX™ Children 12 months to 6 years of age |
| Reporting group description: Participants aged 12 months to 6 years of age received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1. | |

| Reporting group values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age |
|--|---------------------------------|--|--|
| Number of subjects | 50 | 30 | 33 |
| Age Categorical Units: Participants | | | |

| | | | |
|---|---------------|---------------|--------------|
| Age Continuous Units: years arithmetic mean standard deviation | 24.7 ± 6.0 | 15.1 ± 1.5 | 9.6 ± 1.6 |
| Gender Categorical Units: Participants | | | |
| Female | 36 | 16 | 14 |
| Male | 14 | 14 | 19 |
| Race Units: Subjects | | | |
| White | 50 | 30 | 33 |
| Ethnicity Units: Subjects | | | |
| Hispanic Or Latino | 1 | 0 | 0 |
| Not Hispanic Or Latino | 48 | 30 | 33 |
| Not Reported | 1 | 0 | 0 |
| Serostatus for Varicella-Zoster Virus (VZV) Units: Subjects | | | |
| VZV Seronegative | 26 | 18 | 22 |
| VZV Seropositive | 24 | 12 | 11 |

| | | | |
|------------------------|-------------------|-------|--|
| Reporting group values | VARIVAX™ Children | Total | |
|------------------------|-------------------|-------|--|

12 months to 6
years of age

| | | | |
|---|--------------|-----|--|
| Number of subjects | 37 | 150 | |
| Age Categorical Units: Participants | | | |
| Age Continuous Units: years arithmetic mean standard deviation | 3.2 ± 1.6 | - | |
| Gender Categorical Units: Participants | | | |
| Female | 18 | 84 | |
| Male | 19 | 66 | |
| Race Units: Subjects | | | |
| White | 37 | 150 | |
| Ethnicity Units: Subjects | | | |
| Hispanic Or Latino | 0 | 1 | |
| Not Hispanic Or Latino | 37 | 148 | |
| Not Reported | 0 | 1 | |
| Serostatus for Varicella-Zoster Virus (VZV) Units: Subjects | | | |
| VZV Seronegative | 34 | 100 | |
| VZV Seropositive | 3 | 50 | |

End points

End points reporting groups

| | |
|--|---|
| Reporting group title | VARIVAX Adults (18 to 75 years) |
| Reporting group description: Participants aged 18 to 75 years of age received 2 doses of VARIVAX™ administered approximately six weeks apart: one 0.5 mL dose of VARIVAX™ administered by subcutaneous (SC) injection on Day 1, and a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43. | |
| Reporting group title | VARIVAX™ Adolescents 13 to 17 years of age |
| Reporting group description: Participants aged 13 to 17 years of age received 2 doses of VARIVAX™ administered approximately six weeks apart: one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1, and a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43. | |
| Reporting group title | VARIVAX™ Children 7 to 12 years of age |
| Reporting group description: Participants aged 7 to 12 years of age received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1. | |
| Reporting group title | VARIVAX™ Children 12 months to 6 years of age |
| Reporting group description: Participants aged 12 months to 6 years of age received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1. | |

Primary: Varicella Zoster Virus (VZV) Antibody Response Rate at 6 Weeks Post Last Vaccination in Participants Who Were Seronegative at Baseline

| | |
|--|---|
| End point title | Varicella Zoster Virus (VZV) Antibody Response Rate at 6 Weeks Post Last Vaccination in Participants Who Were Seronegative at Baseline ^[1] |
| End point description: VZV antibody titers were measured using a glycoprotein enzyme-linked immunosorbent assay (gpELISA). The VZV antibody response rate was defined as the percentage of participants with a post-vaccination VZV antibody titer ≥ 5 gpELISA units/mL for participants whose baseline VZV antibody titer was < 1.25 gpELISA units/mL. VZV antibody response rate was reported for all study arms at 6 weeks post last vaccination (Vaccination 1 for children and Vaccination 2 for adults and adolescents) for participants who were seronegative to VZW at baseline. All allocated participants without deviations from the protocol that would substantially affect the results of the immunogenicity outcome measures (Per-Protocol population) who were seronegative at baseline and who received Vaccination 1 (children) or Vaccination 1 and Vaccination 2 (adults and adolescents) were analyzed. | |
| End point type | Primary |
| End point timeframe: Adults and Adolescents: 6 weeks post Vaccination 2 (up to approximately 86 days), Children: 6 weeks post Vaccination 1 (up to approximately 43 days) | |
| 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: There were no between-group statistical analyses for this endpoint. | |

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 26 | 18 | 22 | 34 |
| Units: Percentage of participants | | | | |
| number (confidence interval 95%) | 100 (86.8 to 100.0) | 100 (81.5 to 100.0) | 95.5 (77.2 to 99.9) | 100.0 (89.7 to 100.0) |

Statistical analyses

No statistical analyses for this end point

Primary: Geometric Mean Titers (GMTs) of VZV Antibodies at 6 Weeks Post Last Vaccination in Participants Who Were Seronegative at Baseline

| | |
|-----------------|--|
| End point title | Geometric Mean Titers (GMTs) of VZV Antibodies at 6 Weeks Post Last Vaccination in Participants Who Were Seronegative at Baseline ^[2] |
|-----------------|--|

End point description:

GMTs of VZV antibodies were measured post-vaccination using a gpELISA. GMT was calculated at each time point by taking the log of the titers, averaging over all participants values, and then back-transforming to the original scale. GMT was reported for all study arms at 6 weeks post last vaccination (Vaccination 1 for children and Vaccination 2 for adults and adolescents) for participants who were seronegative to VZW at baseline. All allocated participants without deviations from the protocol that would substantially affect the results of the immunogenicity outcome measures (Per-Protocol population) who were seronegative at baseline and who received Vaccination 1 (children) or Vaccination 1 and Vaccination 2 (adults and adolescents) were analyzed.

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

End point timeframe:

Adults and Adolescents: 6 weeks post Vaccination 2 (up to approximately 86 days), Children: 6 weeks post Vaccination 1 (up to approximately 43 days)

Notes:

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

Justification: There were no between-group statistical analyses for this endpoint.

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|---|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 26 | 18 | 22 | 34 |
| Units: gpELISA units/mL | | | | |
| geometric mean (confidence interval 95%) | 70.7 (47.9 to 104.2) | 78.6 (46.5 to 133.0) | 11.3 (7.3 to 17.5) | 13.9 (11.2 to 17.2) |

Statistical analyses

No statistical analyses for this end point

Primary: VZV Antibody Seroconversion Rate at 6 Weeks Post Last Vaccination in Participants Who Were Seronegative at Baseline

| | |
|-----------------|--|
| End point title | VZV Antibody Seroconversion Rate at 6 Weeks Post Last Vaccination in Participants Who Were Seronegative at Baseline ^[3] |
|-----------------|--|

End point description:

VZV antibody levels were measured using a gpELISA. The VZW antibody seroconversion rate was

defined as the percentage of participants with VZV antibodies ≥ 1.25 gpELISA units/mL in participants with a baseline VZV antibody titer < 1.25 gpELISA units/mL. VZW antibody seroconversion was reported for all study arms at 6 weeks post last vaccination (Vaccination 1 for children and Vaccination 2 for adults and adolescents) for participants who were seronegative to VZW at baseline. All allocated participants without deviations from the protocol that would substantially affect the results of the immunogenicity outcome measures (Per-Protocol population) who were seronegative at baseline and who received Vaccination 1 (children) or Vaccination 1 and Vaccination 2 (adults and adolescents) were analyzed.

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

End point timeframe:

Adults and Adolescents: 6 weeks post Vaccination 2 (up to approximately 86 days), Children: 6 weeks post Vaccination 1 (up to approximately 43 days)

Notes:

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

Justification: There were no between-group statistical analyses for this endpoint.

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|------------------------------------|---|---|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 26 | 18 | 22 | 34 |
| Units: Percentage of participants | | | | |
| number (confidence interval 95%) | 100.0 (86.8 to 100.0) | 100.0 (81.5 to 100.0) | 95.5 (77.2 to 99.9) | 100.0 (89.7 to 100.0) |

Statistical analyses

No statistical analyses for this end point

Primary: GMTs of VZV Antibodies at Day 1 and 6 Weeks Post Last Vaccination in Participants Who Were Seropositive at Baseline

| | |
|-----------------|--|
| End point title | GMTs of VZV Antibodies at Day 1 and 6 Weeks Post Last Vaccination in Participants Who Were Seropositive at Baseline ^[4] |
|-----------------|--|

End point description:

GMTs of VZV antibodies were measured post-vaccination using a gpELISA. GMT was calculated at each time point by taking the log of the titers, averaging over all participants values, and then back-transforming to the original scale. GMT was reported for all study arms at 6 weeks post last vaccination (Vaccination 1 for children and Vaccination 2 for adults and adolescents) for participants who were seropositive to VZW at baseline. Confidence intervals (CIs) were only calculated when there were at least 5 participants who were seropositive in a treatment group; missing CIs indicated by "9999". All allocated participants without deviations from the protocol that would substantially affect the results of the immunogenicity outcome measures (Per-Protocol population) who were seropositive at baseline and who received Vaccination 1 (children) or Vaccination 1 and Vaccination 2 (adults and adolescents) were analyzed.

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

End point timeframe:

Day 1 (Baseline), 6 weeks post last vaccination (Day 43 for children and Day 84 for adults and adolescents)

Notes:

[4] - 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: There were no between-group statistical analyses for this endpoint.

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|---|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 23 | 12 | 11 | 3 |
| Units: gpELISA units/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Day 1 (Baseline) | 71.1 (31.4 to 161.2) | 13.4 (5.8 to 31.0) | 24.8 (7.2 to 85.5) | 4.2 (-9999 to 9999) |
| Post Last Vaccination | 216.7 (132.8 to 353.6) | 151.7 (92.5 to 248.6) | 125.0 (37.9 to 411.7) | 47.6 (-9999 to 9999) |

Statistical analyses

No statistical analyses for this end point

Primary: Geometric Mean Fold Rise (GMFR) in VZV Antibody Titers From Day 1 to 6 Weeks Post Last Vaccination in Participants Who Were Seropositive at Baseline

| | |
|-----------------|---|
| End point title | Geometric Mean Fold Rise (GMFR) in VZV Antibody Titers From Day 1 to 6 Weeks Post Last Vaccination in Participants Who Were Seropositive at Baseline ^[5] |
|-----------------|---|

End point description:

GMTs were measured using a gpELISA. For participants who were seropositive at baseline (baseline VZV antibody titer ≥ 1.25 gpELISA units/mL), the GMFR was calculated as the ratio of the VZV GMT at 6 weeks post last vaccination to the VZV GMT at Day 1 (baseline). The GMFR from Day 1 was reported for all study arms at 6 weeks post last vaccination (Vaccination 1 for children and Vaccination 2 for adults and adolescents) for participants who were seropositive to VZW at baseline. CIs were only calculated when there were at least 5 participants who were seropositive in a treatment group; missing CIs indicated by "9999". All allocated participants without deviations from the protocol that would substantially affect the results of the immunogenicity outcome measures (Per-Protocol population) who were seropositive at baseline and who received Vaccination 1 (children) or Vaccination 1 and Vaccination 2 (adults and adolescents) were analyzed.

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

End point timeframe:

Day 1 (Baseline), 6 weeks post last vaccination (Day 43 for children and Day 84 for adults and adolescents)

Notes:

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

Justification: There were no between-group statistical analyses for this endpoint.

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|---|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 23 | 12 | 11 | 3 |
| Units: Ratio | | | | |
| geometric mean (confidence interval 95%) | 3.0 (2.0 to 4.8) | 11.3 (4.6 to 27.5) | 5.0 (2.6 to 9.7) | 11.2 (-9999 to 9999) |

Statistical analyses

No statistical analyses for this end point

Primary: Percentage of Participants With ≥ 4 -Fold Rise in Antibody Titers From Day 1 to 6 Weeks Post Last Vaccination Among Participants Who Were Seropositive at Baseline

| | |
|-----------------|--|
| End point title | Percentage of Participants With ≥ 4 -Fold Rise in Antibody Titers From Day 1 to 6 Weeks Post Last Vaccination Among Participants Who Were Seropositive at Baseline ^[6] |
|-----------------|--|

End point description:

GMTs were measured using a gpELISA. For participants who were seropositive at baseline (baseline VZV antibody titer ≥ 1.25 gpELISA units/mL), the percentage of participants with a ≥ 4 -fold rise in VZV antibody titer from Day 1 (baseline) to post-vaccination was assessed and reported for all study arms at 6 weeks post last vaccination (Vaccination 1 for children and Vaccination 2 for adults and adolescents). CIs were only calculated when there were at least 5 participants who were seropositive in a treatment group; missing CIs indicated by "9999". All allocated participants without deviations from the protocol that would substantially affect the results of the immunogenicity outcome measures (Per-Protocol population) who were seropositive at baseline and who received Vaccination 1 (children) or Vaccination 1 and Vaccination 2 (adults and adolescents) were analyzed.

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

End point timeframe:

Day 1 (Baseline), 6 weeks post last vaccination (Day 43 for children and Day 84 for adults and adolescents)

Notes:

[6] - 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: There were no between-group statistical analyses for this endpoint.

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|------------------------------------|---|---|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 23 | 12 | 11 | 3 |
| Units: Percentage of participants | | | | |
| number (confidence interval 95%) | 60.9 (38.5 to 80.3) | 66.7 (34.9 to 90.1) | 54.5 (23.4 to 83.3) | 100.0 (-9999 to 9999) |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Solicited Injection-Site Adverse Events (AEs) Post-Vaccination 1

| | |
|-----------------|--|
| End point title | Percentage of Participants With Solicited Injection-Site Adverse Events (AEs) Post-Vaccination 1 |
|-----------------|--|

End point description:

An AE was any untoward medical occurrence in a participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention. Solicited injection-site AEs, which included erythema, pain, and swelling, were recorded on a Vaccine Report Card (VRC). The percentage of participants who experienced solicited injection-site AEs after Vaccination 1 (up to approximately 5 days post-vaccination) was summarized for all study arms. All allocated participants who received at least one dose of study vaccine and who had some safety follow-up data after the respective vaccination were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to approximately 5 days post-Vaccination 1

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 50 | 30 | 33 | 37 |
| Units: Percentage of participants | | | | |
| number (not applicable) | | | | |
| Injection-site erythema | 16.0 | 3.3 | 3.0 | 0.0 |
| Injection-site pain | 40.0 | 23.3 | 30.3 | 13.5 |
| Injection-site swelling | 10.0 | 0.0 | 3.0 | 0.0 |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Solicited Injection-Site AEs Post-Vaccination 2

| | |
|-----------------|---|
| End point title | Percentage of Participants With Solicited Injection-Site AEs Post-Vaccination 2 |
|-----------------|---|

End point description:

An AE was any untoward medical occurrence in a participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention. Solicited injection-site AEs, which included erythema, pain, and swelling, were recorded on a VRC. The percentage of participants who experienced solicited injection-site AEs after Vaccination 2 (up to approximately 5 days post-vaccination) was summarized for all study arms receiving a second vaccination (adults and adolescents). All allocated participants who received two doses of study vaccine (adults and adolescents) and who had some safety follow-up data after the respective vaccination were analyzed. The two children study arms did not receive a second vaccination and were excluded from this analysis

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to approximately 5 days post-Vaccination 2 (up to approximately 46 days)

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 49 | 30 | 0 ^[7] | 0 ^[8] |
| Units: Percentage of participants | | | | |
| number (not applicable) | | | | |
| Injection-site erythema | 18.4 | 0 | | |
| Injection-site pain | 49.0 | 23.3 | | |
| Injection-site swelling | 8.2 | 3.3 | | |

Notes:

[7] - Participants who did not receive a 2nd dose were excluded from analysis.

[8] - Participants who did not receive a 2nd dose were excluded from analysis.

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Unsolicited Injection-Site AEs Post-Vaccination 1

| | |
|-----------------|---|
| End point title | Percentage of Participants With Unsolicited Injection-Site AEs Post-Vaccination 1 |
|-----------------|---|

End point description:

An AE was any untoward medical occurrence in a participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention. Unsolicited injection-site AEs were recorded on a VRC. The percentage of participants who experienced unsolicited injection-site AEs after Vaccination 1 (up to approximately 42 days post-vaccination) was summarized for all study arms. All allocated participants who received at least one dose of study vaccine and who had some safety follow-up data after the respective vaccination were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to approximately 42 days post-Vaccination 1

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 50 | 30 | 33 | 37 |
| Units: Percentage of participants | | | | |
| number (not applicable) | 2.0 | 3.3 | 0.0 | 5.4 |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Unsolicited Injection-Site AEs Post-Vaccination 2

| | |
|-----------------|---|
| End point title | Percentage of Participants With Unsolicited Injection-Site AEs Post-Vaccination 2 |
|-----------------|---|

End point description:

An AE was any untoward medical occurrence in a participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention. Unsolicited injection-site AEs were recorded on a VRC. The percentage of participants who experienced unsolicited injection-site AEs after Vaccination 2 (up to approximately 42 days post-vaccination) was summarized for all study arms receiving a second vaccination (adults and adolescents). All allocated participants who received two doses of study vaccine (adults and adolescents) and who had some safety follow-up data after the respective vaccination were analyzed. The two children study arms did not receive a second vaccination and were excluded from this analysis.

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Up to approximately 42 days post-Vaccination 2 (up to approximately 86 days) | |

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 49 | 30 | 0 ^[9] | 0 ^[10] |
| Units: Percentage of participants | | | | |
| number (not applicable) | 0.0 | 0.0 | | |

Notes:

[9] - Participants who did not receive a 2nd dose were excluded from analysis.

[10] - Participants who did not receive a 2nd dose were excluded from analysis.

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Elevated Temperature Post-Vaccination 1

| | |
|-----------------|---|
| End point title | Percentage of Participants With Elevated Temperature Post-Vaccination 1 |
|-----------------|---|

End point description:

The participant's temperature was taken in the evening after Vaccination 1 and daily through Day 28, and was recorded on a VRC. An elevated temperature was defined as ≥ 39.0 °C (102.2 °F). The percentage of participants with elevated temperature after Vaccination 1 (up to approximately 28 days post-vaccination) was summarized for all study arms. All allocated participants who received at least one dose of study vaccine and who had some safety follow-up data after the respective vaccination were analyzed.

| | |
|----------------------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Up to 28 days post-Vaccination 1 | |

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 50 | 30 | 33 | 37 |
| Units: Percentage of participants | | | | |
| number (not applicable) | 2.0 | 0.0 | 3.0 | 8.1 |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Elevated Temperature Post-Vaccination 2

| | |
|--|---|
| End point title | Percentage of Participants With Elevated Temperature Post-Vaccination 2 |
| End point description: The participant's temperature was taken in the evening after Vaccination 2 and daily through Day 28, and was recorded on a VRC. An elevated temperature was defined as ≥ 39.0 °C (102.2 °F). The percentage of participants with elevated temperature after Vaccination 2 (up to approximately 28 days post-vaccination) was summarized for all study arms receiving a second vaccination (adults and adolescents). All allocated participants who received two doses of study vaccine (adults and adolescents) and who had some safety follow-up data after the respective vaccination were analyzed. The two children study arms did not receive a second vaccination and were excluded from this analysis. | |
| End point type | Secondary |
| End point timeframe: Up to 28 days post-Vaccination 2 (up to approximately 71 days) | |

| End point values | VARIVAX [™] Adults (18 to 75 years) | VARIVAX [™] Adolescents 13 to 17 years of age | VARIVAX [™] Children 7 to 12 years of age | VARIVAX [™] Children 12 months to 6 years of age |
|-----------------------------------|---|---|---|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 49 | 30 | 0 ^[11] | 0 ^[12] |
| Units: Percentage of participants | | | | |
| number (not applicable) | 0.0 | 0.0 | | |

Notes:

[11] - Participants who did not receive a 2nd dose were excluded from analysis.

[12] - Participants who did not receive a 2nd dose were excluded from analysis.

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Varicella- and Herpes Zoster-Like Rashes Post-Vaccination 1

| | |
|--|---|
| End point title | Percentage of Participants With Varicella- and Herpes Zoster-Like Rashes Post-Vaccination 1 |
| End point description: The development of varicella-like and herpes zoster-like rashes was recorded on a VRC. The percentage of participants who experienced varicella-like and herpes zoster-like rashes after Vaccination 1 (up to approximately 42 days post-vaccination) was summarized for all study arms. All allocated participants who received at least one dose of study vaccine and who had some safety follow-up data after the respective vaccination were analyzed. | |
| End point type | Secondary |
| End point timeframe: Up to approximately 42 days post-Vaccination 1 | |

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 50 | 30 | 33 | 37 |
| Units: Percentage of participants | | | | |
| number (not applicable) | | | | |
| Varicella-like rash | 6.0 | 0.0 | 6.1 | 2.7 |
| Herpes zoster-like rash | 0.0 | 0.0 | 0.0 | 0.0 |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Varicella- and Herpes Zoster-Like Rashes Post-Vaccination 2

| | |
|-----------------|---|
| End point title | Percentage of Participants With Varicella- and Herpes Zoster-Like Rashes Post-Vaccination 2 |
|-----------------|---|

End point description:

The development of varicella-like and herpes zoster-like rashes was recorded on a VRC. The percentage of participants who experienced varicella-like and herpes zoster-like rashes after Vaccination 1 (up to approximately 42 days post-vaccination) was summarized for all study arms receiving a second vaccination (adults and adolescents). All allocated participants who received two doses of study vaccine (adults and adolescents) and who had some safety follow-up data after the respective vaccination were analyzed. The two children study arms did not receive a second vaccination and were excluded from this analysis.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to approximately 42 days post-Vaccination 2 (up to approximately 86 days)

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 49 | 30 | 0 ^[13] | 0 ^[14] |
| Units: Percentage of participants | | | | |
| number (not applicable) | 2.0 | 0.0 | | |

Notes:

[13] - Participants who did not receive a 2nd dose were excluded from analysis.

[14] - Participants who did not receive a 2nd dose were excluded from analysis.

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Systemic AEs Post-Vaccination 1

| | |
|-----------------|---|
| End point title | Percentage of Participants With Systemic AEs Post-Vaccination 1 |
|-----------------|---|

End point description:

An AE was any untoward medical occurrence in a participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention. A systemic AE was defined as any non-injection-site AE. Systemic AEs were recorded on a VRC. The percentage of participants who experienced a systemic AE after Vaccination 1 (up to approximately 42 days post-vaccination) was summarized for all study arms. All allocated participants who received at least one dose of study vaccine and who had some safety follow-up data after the respective vaccination were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to approximately 42 days post-Vaccination 1

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 50 | 30 | 33 | 37 |
| Units: Percentage of participants | | | | |
| number (not applicable) | 38.0 | 23.3 | 36.4 | 43.2 |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Systemic AEs Post-Vaccination 2

| | |
|-----------------|---|
| End point title | Percentage of Participants With Systemic AEs Post-Vaccination 2 |
|-----------------|---|

End point description:

An AE was any untoward medical occurrence in a participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention. A systemic AE was defined as any non-injection-site AE. Systemic AEs were recorded on a VRC. The percentage of participants who experienced a systemic AE after Vaccination 2 (up to approximately 42 days post-vaccination) was summarized for all study arms receiving a second vaccination (adults and adolescents). All allocated participants who received two doses of study vaccine (adults and adolescents) and who had some safety follow-up data after the respective vaccination were analyzed. The two children study arms did not receive a second vaccination and were excluded from this analysis.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to approximately 42 days post-Vaccination 2 (up to approximately 86 days)

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 49 | 30 | 0 ^[15] | 0 ^[16] |
| Units: Percentage of participants | | | | |
| number (not applicable) | 28.6 | 26.7 | | |

Notes:

[15] - Participants who did not receive a 2nd dose were excluded from analysis.

[16] - Participants who did not receive a 2nd dose were excluded from analysis.

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With 1 or More Serious Adverse Events (SAEs) Post-Vaccination 1 or Post-Vaccination 2

| | |
|-----------------|--|
| End point title | Percentage of Participants With 1 or More Serious Adverse Events (SAEs) Post-Vaccination 1 or Post-Vaccination 2 |
|-----------------|--|

End point description:

An AE was any untoward medical occurrence in a participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention. An SAE was an AE that resulted in death, was life-threatening, required inpatient hospitalization or prolongation of existing hospitalization, resulted in persistent or significant disability/incapacity, was a congenital anomaly/birth defect, or another important medical event. The percentage of participants who experienced one or more SAEs after either vaccination (up to approximately 42 days post-vaccination) was summarized for all study arms. All allocated participants who received at least one dose of study vaccine and who had some safety follow-up data after the respective vaccination were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to 42 days post-Vaccination 1 or post-Vaccination 2 (up to approximately 86 days)

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 50 | 30 | 33 | 37 |
| Units: Percentage of participants | | | | |
| number (not applicable) | 0.0 | 0.0 | 3.0 | 0.0 |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Vaccine-Related SAEs Post-Vaccination 1 or Post-Vaccination 2

| | |
|-----------------|---|
| End point title | Percentage of Participants With Vaccine-Related SAEs Post-Vaccination 1 or Post-Vaccination 2 |
|-----------------|---|

End point description:

An AE was any untoward medical occurrence in a participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention. A vaccine-related SAE was an AE that resulted in death, was life-threatening, required inpatient hospitalization or prolongation of existing hospitalization, resulted in persistent or significant disability/incapacity, was a congenital anomaly/birth defect, or another important medical event, that was considered at least possibly related to the study vaccine. The percentage of participants who experienced one or more vaccine-related SAEs

after either vaccination (up to approximately 42 days post-vaccination) was summarized for all study arms. All allocated participants who received at least one dose of study vaccine and who had some safety follow-up data after the respective vaccination were analyzed.

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Up to 42 days post-Vaccination 1 or post-Vaccination 2 (up to approximately 86 days) | |

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 50 | 30 | 33 | 37 |
| Units: Percentage of participants | | | | |
| number (not applicable) | 0.0 | 0.0 | 0.0 | 0.0 |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With Vaccine-Related Death Post-Vaccination 1 or Post-Vaccination 2

| | |
|-----------------|--|
| End point title | Percentage of Participants With Vaccine-Related Death Post-Vaccination 1 or Post-Vaccination 2 |
|-----------------|--|

End point description:

An AE was any untoward medical occurrence in a participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention. A vaccine-related SAE was an AE that resulted in death, was life-threatening, required inpatient hospitalization or prolongation of existing hospitalization, resulted in persistent or significant disability/incapacity, was a congenital anomaly/birth defect, or another important medical event, that was considered at least possibly related to the study vaccine. The percentage of participants who experienced a vaccine-related SAE that resulted in death after either vaccination (up to approximately 42 days post-vaccination) was summarized for all study arms. All allocated participants who received at least one dose of study vaccine and who had some safety follow-up data after the respective vaccination were analyzed.

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Up to 42 days post-Vaccination 1 or post-Vaccination 2 (up to approximately 86 days) | |

| End point values | VARIVAX Adults (18 to 75 years) | VARIVAX™ Adolescents 13 to 17 years of age | VARIVAX™ Children 7 to 12 years of age | VARIVAX™ Children 12 months to 6 years of age |
|-----------------------------------|---------------------------------------|---|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 50 | 30 | 33 | 37 |
| Units: Percentage of participants | | | | |
| number (not applicable) | 0.0 | 0.0 | 0.0 | 0.0 |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Up to 42 days post-Vaccination 1 or post-Vaccination 2 (up to approximately 86 days)

Adverse event reporting additional description:

Serious and Non-serious AE tables include all allocated participants who received at least 1 dose of study vaccination.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 23.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|---------------------------------|
| Reporting group title | VARIVAX Adults (18 to 75 years) |
|-----------------------|---------------------------------|

Reporting group description:

Participants aged 18 to 75 years of age received 2 doses of VARIVAX™ administered approximately six weeks apart: one 0.5 mL dose of VARIVAX™ administered by subcutaneous (SC) injection on Day 1, and a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43.

| | |
|-----------------------|--------------------------------------|
| Reporting group title | VARIVAX Adolescents (13 to 17 years) |
|-----------------------|--------------------------------------|

Reporting group description:

Participants aged 13 to 17 years of age received 2 doses of VARIVAX™ administered approximately six weeks apart: one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1, and a second 0.5 mL dose of VARIVAX™ by SC injection on Day 43.

| | |
|-----------------------|----------------------------------|
| Reporting group title | VARIVAX Children (7 to 12 years) |
|-----------------------|----------------------------------|

Reporting group description:

Participants aged 7 to 12 years of age received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1.

| | |
|-----------------------|---|
| Reporting group title | VARIVAX Children (12 months to 6 years) |
|-----------------------|---|

Reporting group description:

Participants aged 12 months to 6 years of age received one 0.5 mL dose of VARIVAX™ administered by SC injection on Day 1.

| Serious adverse events | VARIVAX Adults (18 to 75 years) | VARIVAX Adolescents (13 to 17 years) | VARIVAX Children (7 to 12 years) |
|---|---------------------------------|--------------------------------------|----------------------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 30 (0.00%) | 1 / 33 (3.03%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 30 (0.00%) | 1 / 33 (3.03%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|------------------------|---|--|--|
| Serious adverse events | VARIVAX Children (12 months to 6 years) | | |
|------------------------|---|--|--|

| | years) | | |
|---|----------------|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 37 (0.00%) | | |
| number of deaths (all causes) | 0 | | |
| number of deaths resulting from adverse events | 0 | | |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 0 / 37 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

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

| Non-serious adverse events | VARIVAX Adults (18 to 75 years) | VARIVAX Adolescents (13 to 17 years) | VARIVAX Children (7 to 12 years) |
|---|---------------------------------|--------------------------------------|----------------------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 40 / 50 (80.00%) | 17 / 30 (56.67%) | 15 / 33 (45.45%) |
| Investigations | | | |
| Body temperature increased | | | |
| subjects affected / exposed | 6 / 50 (12.00%) | 5 / 30 (16.67%) | 2 / 33 (6.06%) |
| occurrences (all) | 11 | 10 | 2 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 9 / 50 (18.00%) | 6 / 30 (20.00%) | 5 / 33 (15.15%) |
| occurrences (all) | 15 | 10 | 5 |
| General disorders and administration site conditions | | | |
| Injection site haemorrhage | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 30 (0.00%) | 0 / 33 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Injection site pain | | | |
| subjects affected / exposed | 29 / 50 (58.00%) | 10 / 30 (33.33%) | 10 / 33 (30.30%) |
| occurrences (all) | 45 | 14 | 10 |
| Injection site erythema | | | |
| subjects affected / exposed | 16 / 50 (32.00%) | 1 / 30 (3.33%) | 1 / 33 (3.03%) |
| occurrences (all) | 17 | 1 | 1 |
| Injection site swelling | | | |

| | | | |
|--|----------------------|---------------------|---------------------|
| subjects affected / exposed occurrences (all) | 7 / 50 (14.00%) 9 | 1 / 30 (3.33%) 1 | 1 / 33 (3.03%) 1 |
| Gastrointestinal disorders Vomiting subjects affected / exposed occurrences (all) | 0 / 50 (0.00%) 0 | 0 / 30 (0.00%) 0 | 0 / 33 (0.00%) 0 |
| Reproductive system and breast disorders Dysmenorrhoea subjects affected / exposed occurrences (all) | 3 / 50 (6.00%) 6 | 0 / 30 (0.00%) 0 | 0 / 33 (0.00%) 0 |
| Skin and subcutaneous tissue disorders Rash vesicular subjects affected / exposed occurrences (all) | 3 / 50 (6.00%) 4 | 0 / 30 (0.00%) 0 | 2 / 33 (6.06%) 2 |
| Infections and infestations Respiratory tract infection subjects affected / exposed occurrences (all) | 1 / 50 (2.00%) 1 | 0 / 30 (0.00%) 0 | 2 / 33 (6.06%) 2 |
| Respiratory tract infection viral subjects affected / exposed occurrences (all) | 1 / 50 (2.00%) 1 | 2 / 30 (6.67%) 2 | 1 / 33 (3.03%) 1 |
| Rhinitis subjects affected / exposed occurrences (all) | 0 / 50 (0.00%) 0 | 0 / 30 (0.00%) 0 | 0 / 33 (0.00%) 0 |

| | | | |
|--|---|--|--|
| Non-serious adverse events | VARIVAX Children (12 months to 6 years) | | |
| Total subjects affected by non-serious adverse events subjects affected / exposed | 16 / 37 (43.24%) | | |
| Investigations Body temperature increased subjects affected / exposed occurrences (all) | 9 / 37 (24.32%) 13 | | |
| Nervous system disorders Headache subjects affected / exposed occurrences (all) | 0 / 37 (0.00%) 0 | | |
| General disorders and administration | | | |

| | | | |
|--|-----------------|--|--|
| site conditions | | | |
| Injection site haemorrhage | | | |
| subjects affected / exposed | 2 / 37 (5.41%) | | |
| occurrences (all) | 2 | | |
| Injection site pain | | | |
| subjects affected / exposed | 5 / 37 (13.51%) | | |
| occurrences (all) | 5 | | |
| Injection site erythema | | | |
| subjects affected / exposed | 0 / 37 (0.00%) | | |
| occurrences (all) | 0 | | |
| Injection site swelling | | | |
| subjects affected / exposed | 0 / 37 (0.00%) | | |
| occurrences (all) | 0 | | |
| Gastrointestinal disorders | | | |
| Vomiting | | | |
| subjects affected / exposed | 2 / 37 (5.41%) | | |
| occurrences (all) | 2 | | |
| Reproductive system and breast disorders | | | |
| Dysmenorrhoea | | | |
| subjects affected / exposed | 0 / 37 (0.00%) | | |
| occurrences (all) | 0 | | |
| Skin and subcutaneous tissue disorders | | | |
| Rash vesicular | | | |
| subjects affected / exposed | 1 / 37 (2.70%) | | |
| occurrences (all) | 1 | | |
| Infections and infestations | | | |
| Respiratory tract infection | | | |
| subjects affected / exposed | 5 / 37 (13.51%) | | |
| occurrences (all) | 5 | | |
| Respiratory tract infection viral | | | |
| subjects affected / exposed | 4 / 37 (10.81%) | | |
| occurrences (all) | 6 | | |
| Rhinitis | | | |
| subjects affected / exposed | 2 / 37 (5.41%) | | |
| occurrences (all) | 2 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|------------------|--|
| 06 December 2012 | Amendment 1: The primary reason for the amendment was to change the pregnancy/contraceptive follow-up period text so that it was consistent with the Investigator Brochure and the Product Label. |
| 18 April 2013 | Amendment 2: The primary reasons for this amendment were to update the study design to include the enrollment targets by age groups and specify the primary immunogenicity and safety endpoints of the study; and to add laboratory tests for participants 7 years of age and older. |
| 03 October 2018 | Amendment 3: The primary reasons for this amendment were to edit the title of the study remove "safety" and "tolerability" and to align it with the study's primary focus of immunogenicity, and make its secondary objective that of safety and tolerability. The study design was also revised to include an adult cohort with a target enrollment of 50 participants. This cohort is referred to as Stage 1. Stage 2 would then enroll children and adolescents and follow sequentially after Stage 1. Additionally, the ages of children and adolescent participants in Stage 2 of the study were specified. |
| 18 December 2018 | Amendment 4: The primary reason for this amendment was to add an exclusion criterion to exclude participants who had (or their parents had) a documented human immunodeficiency virus (HIV) infection, untreated syphilis infection or viral hepatitis infection (Hepatitis B or C). |
| 30 July 2019 | Amendment 5: The primary reason for this amendment was to align the protocol with the current version of the Common Protocol Template (CPT). |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported