



Clinical trial results:

Efficacy and safety of oral semaglutide 25 mg once daily in adults with overweight or obesity (OASIS 4)

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2021-006534-40 |
| Trial protocol | PL |
| Global end of trial date | 07 May 2024 |

Results information

| | |
|--------------------------------|--------------|
| Result version number | v1 (current) |
| This version publication date | 10 May 2025 |
| First version publication date | 10 May 2025 |

Trial information

Trial identification

| | |
|-----------------------|-------------|
| Sponsor protocol code | NN9932-4954 |
|-----------------------|-------------|

Additional study identifiers

| | |
|------------------------------------|-----------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT05564117 |
| WHO universal trial number (UTN) | U1111-1271-9056 |

Notes:

Sponsors

| | |
|------------------------------|---------------------------------------------------------------------------------------|
| Sponsor organisation name | Novo Nordisk A/S |
| Sponsor organisation address | Novo Alle, Bagsvaerd, Denmark, 2880 |
| Public contact | Clinical Reporting Office (2834), Novo Nordisk A/S, clinicaltrials@novonordisk.com |
| Scientific contact | Clinical Reporting Office (2834), Novo Nordisk A/S, clinicaltrials@novonordisk.com |

Notes:

Paediatric regulatory details

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

Notes:

Results analysis stage

| | |
|------------------------------------------------------|--------------|
| Analysis stage | Final |
| Date of interim/final analysis | 18 June 2024 |
| Is this the analysis of the primary completion data? | No |

| | |
|----------------------------------|-------------|
| Global end of trial reached? | Yes |
| Global end of trial date | 07 May 2024 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To confirm superior efficacy on body weight reduction from baseline (week 0) to end of treatment (week 64) of oral semaglutide 25 mg once daily versus placebo as an adjunct to reduced-calorie diet and increased physical activity in adults with overweight or obesity.

Protection of trial subjects:

The study was conducted in accordance with the Declaration of Helsinki and ICH Good Clinical Practice, including archiving of essential documents. The submitted information, reflecting the data available at the data cut-off date for this report, is confirmed to be accurate.

Background therapy: -

Evidence for comparator:

Not applicable

| | |
|-----------------------------------------------------------|-----------------|
| Actual start date of recruitment | 11 October 2022 |
| 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 | Canada: 32 |
| Country: Number of subjects enrolled | Germany: 81 |
| Country: Number of subjects enrolled | Poland: 80 |
| Country: Number of subjects enrolled | United States: 114 |
| Worldwide total number of subjects | 307 |
| EEA total number of subjects | 161 |

Notes:

Subjects enrolled per age group

| | |
|-------------------------------------------|---|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |

| | |
|----------------------|-----|
| Adults (18-64 years) | 278 |
| From 65 to 84 years | 29 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

The trial was conducted at 22 sites in 4 countries.

Pre-assignment

Screening details:

Subjects were randomised in 2:1 ratio to receive 25 milligram (mg) oral semaglutide or semaglutide matching placebo once weekly.

Period 1

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

Arms

| | |
|------------------------------|-----|
| Are arms mutually exclusive? | Yes |
|------------------------------|-----|

| | |
|------------------|------------------------|
| Arm title | Oral semaglutide 25 mg |
|------------------|------------------------|

Arm description:

Subjects received oral semaglutide tablets once daily in a dose escalation manner for 64 weeks: 3 mg (weeks 0 to 4), 7 mg (weeks 5 to 8), 14 mg (weeks 9 to 12), and 25 mg (weeks 13 to 64).

| | |
|----------------------------------------|---------------|
| Arm type | Experimental |
| Investigational medicinal product name | Semaglutide C |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Oral semaglutide tablets were administered once daily for 64 weeks.

| | |
|------------------|---------|
| Arm title | Placebo |
|------------------|---------|

Arm description:

Subjects received placebo tablets matched to oral semaglutide once daily for 64 weeks.

| | |
|----------------------------------------|----------|
| Arm type | Placebo |
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Placebo tablets matching oral semaglutide were administered once daily for 64 weeks.

| Number of subjects in period 1 | Oral semaglutide 25 mg | Placebo |
|---------------------------------------|------------------------|---------|
| Started | 205 | 102 |
| Full Analysis Set (FAS) | 205 | 102 |
| Safety Analysis Set (SAS) | 204 | 102 |
| Completed | 196 | 94 |
| Not completed | 9 | 8 |
| Physician decision | 1 | - |
| Consent withdrawn by subject | 1 | 1 |
| Lost to follow-up | 7 | 7 |

Baseline characteristics

Reporting groups

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Reporting group title | Oral semaglutide 25 mg |
| Reporting group description: | |
| Subjects received oral semaglutide tablets once daily in a dose escalation manner for 64 weeks: 3 mg (weeks 0 to 4), 7 mg (weeks 5 to 8), 14 mg (weeks 9 to 12), and 25 mg (weeks 13 to 64). | |
| Reporting group title | Placebo |
| Reporting group description: | |
| Subjects received placebo tablets matched to oral semaglutide once daily for 64 weeks. | |

| Reporting group values | Oral semaglutide 25 mg | Placebo | Total |
|----------------------------------------------------|------------------------|---------|-------|
| Number of subjects | 205 | 102 | 307 |
| 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) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 184 | 94 | 278 |
| From 65-84 years | 21 | 8 | 29 |
| 85 years and over | 0 | 0 | 0 |
| Age Continuous | | | |
| Units: years | | | |
| arithmetic mean | 48 | 47 | |
| standard deviation | ± 13 | ± 13 | - |
| Gender Categorical | | | |
| Units: Subjects | | | |
| Female | 155 | 87 | 242 |
| Male | 50 | 15 | 65 |
| Race (NIH/OMB) | | | |
| Units: Subjects | | | |
| Asian | 1 | 1 | 2 |
| Black or African American | 13 | 9 | 22 |
| White | 190 | 91 | 281 |
| Other | 1 | 1 | 2 |
| Ethnicity (NIH/OMB) | | | |
| Units: Subjects | | | |
| Hispanic or Latino | 17 | 7 | 24 |
| Not Hispanic or Latino | 188 | 95 | 283 |

End points

End points reporting groups

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Reporting group title | Oral semaglutide 25 mg |
| Reporting group description: Subjects received oral semaglutide tablets once daily in a dose escalation manner for 64 weeks: 3 mg (weeks 0 to 4), 7 mg (weeks 5 to 8), 14 mg (weeks 9 to 12), and 25 mg (weeks 13 to 64). | |
| Reporting group title | Placebo |
| Reporting group description: Subjects received placebo tablets matched to oral semaglutide once daily for 64 weeks. | |

Primary: Relative change in body weight

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| End point title | Relative change in body weight |
| End point description: Relative change in body weight from baseline (week 0) to end of treatment (week 64) is presented. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point. | |
| End point type | Primary |
| End point timeframe: From baseline (week 0) to end of treatment (week 64) | |

| End point values | Oral semaglutide 25 mg | Placebo | | |
|--------------------------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 192 | 90 | | |
| Units: Percentage (%) point of body weight | | | | |
| arithmetic mean (standard deviation) | -14.4 (± 10.5) | -2.5 (± 7.9) | | |

Statistical analyses

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Statistical analysis title | Hypothetical estimand |
| Statistical analysis description: All responses prior to first discontinuation of treatment (or initiation of other anti-obesity medication or bariatric surgery) were included in a mixed model for repeated measurements with randomised treatment as factor and baseline body weight as covariate, all nested within visit. | |
| Comparison groups | Oral semaglutide 25 mg v Placebo |

| | |
|-----------------------------------------|----------------------------|
| Number of subjects included in analysis | 282 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[1] |
| P-value | < 0.0001 |
| Method | Mixed models analysis |
| Parameter estimate | Treatment difference |
| Point estimate | -13.87 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -16.53 |
| upper limit | -11.21 |

Notes:

[1] - Hypothetical estimand: Total number of subjects included in statistical analysis is 168. The number given here is auto-calculated by the system.

| | |
|-----------------------------------|---------------------------|
| Statistical analysis title | Treatment policy estimand |
|-----------------------------------|---------------------------|

Statistical analysis description:

Week 64 responses were analysed using an analysis of covariance model with randomised treatment as factor and baseline body weight as covariate.

| | |
|-----------------------------------------|----------------------------------|
| Comparison groups | Placebo v Oral semaglutide 25 mg |
| Number of subjects included in analysis | 282 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANCOVA |
| Parameter estimate | Treatment difference |
| Point estimate | -11.43 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -13.88 |
| upper limit | -8.98 |

Primary: Achievement of body weight reduction \geq 5 percentage (%) (Yes/No)

| | |
|-----------------|-----------------------------------------------------------------------|
| End point title | Achievement of body weight reduction \geq 5 percentage (%) (Yes/No) |
|-----------------|-----------------------------------------------------------------------|

End point description:

Achievement of body weight reduction \geq 5% (Yes/No) at end of treatment (week 64) is presented. In the reported data, 'Yes' infers the number of participants who have achieved \geq 5% weight loss, whereas 'No' infers the number of participants who have not achieved \geq 5% weight loss. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

At end-of-treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 192 | 90 | | |
| Units: Subjects | | | | |
| Yes | 152 | 28 | | |
| No | 40 | 62 | | |

Statistical analyses

| Statistical analysis title | Hypothetical estimand |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Statistical analysis description: | |
| All responses prior to first discontinuation of treatment (or initiation of other anti-obesity medication or bariatric surgery) were included in a mixed model for repeated measurements with randomised treatment as factor and baseline body weight as covariate, all nested within visit. | |
| Comparison groups | Oral semaglutide 25 mg v Placebo |
| Number of subjects included in analysis | 282 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[2] |
| P-value | < 0.0001 |
| Method | Regression, Logistic |
| Parameter estimate | Treatment odds ratio |
| Point estimate | 25.23 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 13.24 |
| upper limit | 48.07 |

Notes:

[2] - Hypothetical estimand: Total number of subjects included in statistical analysis is 168. The number given here is auto-calculated by the system.

| Statistical analysis title | Treatment policy estimand |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Statistical analysis description: | |
| Week 64 responses were analysed using a binary logistic regression model with randomised treatment as factor and baseline body weight as covariate. | |
| Comparison groups | Oral semaglutide 25 mg v Placebo |
| Number of subjects included in analysis | 282 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | Regression, Logistic |
| Parameter estimate | Treatment odds ratio |
| Point estimate | 7.34 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 4.22 |
| upper limit | 12.76 |

Secondary: Achievement of body weight reduction \geq 10% (Yes/No)

| | |
|-----------------|----------------------------------------------------------|
| End point title | Achievement of body weight reduction \geq 10% (Yes/No) |
|-----------------|----------------------------------------------------------|

End point description:

Achievement of body weight reduction \geq 10% (Yes/No) at end of treatment (week 64) is presented. In the reported data, 'Yes' infers the number of participants who have achieved \geq 10% weight loss, whereas 'No' infers the number of participants who have not achieved \geq 10% weight loss. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

At end-of-treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 192 | 90 | | |
| Units: Subjects | | | | |
| Yes | 121 | 13 | | |
| No | 71 | 77 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Achievement of body weight reduction \geq 15% (Yes/No)

| | |
|-----------------|----------------------------------------------------------|
| End point title | Achievement of body weight reduction \geq 15% (Yes/No) |
|-----------------|----------------------------------------------------------|

End point description:

Achievement of body weight reduction \geq 15% (Yes/No) at end of treatment (week 64) is presented. In the reported data, 'Yes' infers the number of participants who have achieved \geq 15% weight loss, whereas 'No' infers the number of participants who have not achieved \geq 15% weight loss. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

At end-of-treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 192 | 90 | | |
| Units: Subjects | | | | |
| Yes | 96 | 5 | | |
| No | 96 | 85 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Achievement of body weight reduction \geq 20% (Yes/No)

| | |
|-----------------|----------------------------------------------------------|
| End point title | Achievement of body weight reduction \geq 20% (Yes/No) |
|-----------------|----------------------------------------------------------|

End point description:

Achievement of body weight reduction \geq 20% (Yes/No) at end of treatment (week 64) is presented. In the reported data, 'Yes' infers the number of participants who have achieved \geq 20% weight loss, whereas 'No' infers the number of participants who have not achieved \geq 20% weight loss. The end point was evaluated based on the data from in-trial period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

At end-of-treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 192 | 90 | | |
| Units: Subjects | | | | |
| Yes | 57 | 3 | | |
| No | 135 | 87 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in Physical function domain (5-items) score (Impact of Weight on Quality of Life-Lite-Clinical Trials version [IWQOL-Lite-CT])

| | |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| End point title | Change in Physical function domain (5-items) score (Impact of Weight on Quality of Life-Lite-Clinical Trials version [IWQOL-Lite-CT]) |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|

End point description:

The Impact of Weight on Quality of Life Clinical Trials Version (IWQOL-Lite-CT) is designed to assess the impact of changes in weight on patient's quality of life within the context of clinical trials. IWQOL-Lite-CT

is a 20-item questionnaire-based instrument used to assess the impact of body weight changes on subject's overall health-related quality of life (HRQoL). All IWQOL-Lite-CT composite scores range from 0 to 100, with higher scores reflecting better levels of functioning. Results for Physical Function Domain are presented in this presented. The end point was evaluated based on the data from in-trial period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

| | |
|------------------------------------------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| From baseline (week 0) to end of treatment (week 64) | |

| End point values | Oral semaglutide 25 mg | Placebo | | |
|--------------------------------------|------------------------|-------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 188 | 89 | | |
| Units: Score on a scale | | | | |
| arithmetic mean (standard deviation) | 16.8 (\pm 20.4) | 8.3 (\pm 16.7) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in systolic blood pressure

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| End point title | Change in systolic blood pressure |
| End point description: | |
| Change in systolic blood pressure from baseline (week 0) to end of treatment (week 64) is presented. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point. | |
| End point type | Secondary |
| End point timeframe: | |
| From baseline (week 0) to end of treatment (week 64) | |

| End point values | Oral semaglutide 25 mg | Placebo | | |
|--------------------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 192 | 90 | | |
| Units: Millimeters of mercury (mmHg) | | | | |
| arithmetic mean (standard deviation) | -7 (\pm 15) | -5 (\pm 15) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in waist circumference

| | |
|-----------------|-------------------------------|
| End point title | Change in waist circumference |
|-----------------|-------------------------------|

End point description:

Change in waist circumference from baseline (week 0) to end of treatment (week 64) is presented. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|--------------------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 191 | 89 | | |
| Units: centimeter (cm) | | | | |
| arithmetic mean (standard deviation) | -12.9 (± 12.3) | -3.1 (± 11.2) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in body mass index (BMI)

| | |
|-----------------|---------------------------------|
| End point title | Change in body mass index (BMI) |
|-----------------|---------------------------------|

End point description:

Change in BMI from baseline (week 0) to end of treatment (week 64) is presented. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-------------------------------------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 192 | 90 | | |
| Units: Kilogram per square meter (kg/m ²) | | | | |
| arithmetic mean (standard deviation) | -5.3 (± 4.0) | -0.9 (± 2.8) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in diastolic blood pressure

| | |
|-----------------|------------------------------------|
| End point title | Change in diastolic blood pressure |
|-----------------|------------------------------------|

End point description:

Change in diastolic blood pressure from randomisation (week 0) to end of treatment (week 64) is presented. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From randomisation (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|--------------------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 192 | 90 | | |
| Units: mmHg | | | | |
| arithmetic mean (standard deviation) | -3 (± 9) | -2 (± 10) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in glycosylated haemoglobin (HbA1c)

| | |
|-----------------|--------------------------------------------|
| End point title | Change in glycosylated haemoglobin (HbA1c) |
|-----------------|--------------------------------------------|

End point description:

Change in glycosylated haemoglobin (HbA1c) from baseline (week 0) to end of treatment (week 64) is presented. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|--------------------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 190 | 86 | | |
| Units: Percentage point of HbA1c | | | | |
| arithmetic mean (standard deviation) | -0.3 (± 0.3) | -0.0 (± 0.2) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in high density lipoproteins (HDL) cholesterol

| | |
|-----------------|-------------------------------------------------------|
| End point title | Change in high density lipoproteins (HDL) cholesterol |
|-----------------|-------------------------------------------------------|

End point description:

Change in HDL (mmol/L) from baseline (week 0) to end of treatment (week 64) is presented as ratio to baseline. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 182 | 85 | | |
| Units: Ratio of high density lipoproteins | | | | |
| geometric mean (geometric coefficient of variation) | 1.04 (± 15.8) | 0.99 (± 13.7) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in total cholesterol

| | |
|-----------------|-----------------------------|
| End point title | Change in total cholesterol |
|-----------------|-----------------------------|

End point description:

Change in total cholesterol measured in millimoles per liter (mmol/L) from baseline (week 0) to end of treatment (week 64) is presented as ratio to baseline. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|--------------------------------------------------------|------------------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 187 | 87 | | |
| Units: Ratio of total cholesterol | | | | |
| geometric mean (geometric coefficient of variation) | 0.96 (\pm 15.3) | 0.98 (\pm 16.4) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in low density lipoprotein (LDL) cholesterol

| | |
|-----------------|-----------------------------------------------------|
| End point title | Change in low density lipoprotein (LDL) cholesterol |
|-----------------|-----------------------------------------------------|

End point description:

Change in LDL (mmol/L) from baseline (week 0) to end of treatment (week 64) is presented as ratio to baseline. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|--------------------------------------------------------|------------------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 182 | 85 | | |
| Units: Ratio of low density lipoproteins | | | | |
| geometric mean (geometric coefficient of variation) | 0.96 (\pm 24.0) | 0.99 (\pm 25.9) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in very low density lipoprotein (VLDL)

| | |
|-----------------|-----------------------------------------------|
| End point title | Change in very low density lipoprotein (VLDL) |
|-----------------|-----------------------------------------------|

End point description:

Change in VLDL (mmol/L) from baseline (week 0) to end of treatment (week 64) is presented as ratio to baseline. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------------------------------|------------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 186 | 87 | | |
| Units: Ratio of very low density lipoproteins | | | | |
| geometric mean (geometric coefficient of variation) | 0.80 (\pm 38.9) | 0.92 (\pm 36.8) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in triglycerides

| | |
|-----------------|-------------------------|
| End point title | Change in triglycerides |
|-----------------|-------------------------|

End point description:

Change in triglycerides (mmol/L) from baseline (week 0) to end of treatment (week 64) is presented as ratio to baseline. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------------------------------|------------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 186 | 87 | | |
| Units: Ratio of triglycerides | | | | |
| geometric mean (geometric coefficient of variation) | 0.80 (\pm 39.2) | 0.93 (\pm 36.0) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in free fatty acids

| | |
|-----------------|----------------------------|
| End point title | Change in free fatty acids |
|-----------------|----------------------------|

End point description:

Change in free fatty acids (mmol/L) from baseline (week 0) to end of treatment (week 64) is presented as ratio to baseline. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------------------------------|------------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 180 | 84 | | |
| Units: Ratio of free fatty acids | | | | |
| geometric mean (geometric coefficient of variation) | 0.86 (\pm 64.2) | 0.95 (\pm 76.6) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in high sensitivity C-Reactive Protein

| | |
|-----------------|-----------------------------------------------|
| End point title | Change in high sensitivity C-Reactive Protein |
|-----------------|-----------------------------------------------|

End point description:

Change in high sensitivity C-Reactive Protein (hsCRP) measured in milligram per litre (mg/L) from baseline (week 0) to end of treatment (week 64) is presented as ratio to baseline. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------------------------------|------------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 188 | 87 | | |
| Units: Ratio of hsCRP | | | | |
| geometric mean (geometric coefficient of variation) | 0.50 (\pm 111.9) | 0.91 (\pm 122.8) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in fasting serum insulin

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| End point title | Change in fasting serum insulin |
| End point description: Change in fasting serum insulin measured in picomoles per liter (pmol/L) from baseline (week 0) to end of treatment (week 64) is presented as ratio to baseline. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point. | |
| End point type | Secondary |
| End point timeframe: From baseline (week 0) to end of treatment (week 64) | |

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------------------------------|------------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 180 | 84 | | |
| Units: Ratio of fasting serum insulin | | | | |
| geometric mean (geometric coefficient of variation) | 0.74 (\pm 57.9) | 1.03 (\pm 62.5) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change in fasting plasma glucose (FPG)

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| End point title | Change in fasting plasma glucose (FPG) |
| End point description: Change in FPG measured in mg/dL from baseline (week 0) to end of treatment (week 64) is presented. The endpoint was evaluated based on the data from in-trial observation period. In-trial observation period: the uninterrupted time interval from the start of randomisation to last trial-related subject-site contact. Full analysis set (FAS) comprised all randomised subjects. Overall number of subjects analyzed = subjects with available data for this end point. | |
| End point type | Secondary |

End point timeframe:

From baseline (week 0) to end of treatment (week 64)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|--------------------------------------|------------------------|-------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 186 | 87 | | |
| Units: mg/dL | | | | |
| arithmetic mean (standard deviation) | -7.3 (\pm 10.8) | 0.1 (\pm 12.0) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of treatment emergent adverse events

| | |
|-----------------|---------------------------------------------|
| End point title | Number of treatment emergent adverse events |
|-----------------|---------------------------------------------|

End point description:

An adverse event (AE) was defined as any untoward medical occurrence in a clinical study participant that is temporally associated with the use of IMP, whether or not considered related to the IMP. All AEs mentioned here are treatment emergent adverse events (TEAE) defined as an event with onset during the on-treatment observation period. On-treatment observation period: from the date of first IMP administration to date of last IMP administration excluding potential off-treatment time intervals of more than 3 consecutive days. Safety analysis set (SAS) included all participants randomly assigned to study treatment and who took at least 1 dose of trial product. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of study (week 71)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------|------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 204 | 102 | | |
| Units: Events | | | | |
| number (not applicable) | 1239 | 432 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of treatment emergent serious adverse events

| | |
|-----------------|-----------------------------------------------------|
| End point title | Number of treatment emergent serious adverse events |
|-----------------|-----------------------------------------------------|

End point description:

Number of treatment emergent serious adverse events from baseline (week 0) to end of study (week 71) is presented. A serious adverse event (SAE) is any untoward medical occurrence that fulfils at least one of following criteria: results in death; is life-threatening; requires inpatient or prolongation of existing hospitalization; results in persistent or significant disability/incapacity; is congenital anomaly/birth defect; important medical event. The end point was evaluated based on data from on-treatment observation period. On-treatment observation period: from date of first investigational medicinal product (IMP) administration to date of last IMP administration excluding potential off-treatment time intervals of more than 3 consecutive days. Safety analysis set (SAS) included all participants randomly assigned to study treatment and who took at least 1 dose of trial product. Overall number of subjects analyzed = subjects with available data for this end point.

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

End point timeframe:

From baseline (week 0) to end of study (week 71)

| End point values | Oral semaglutide 25 mg | Placebo | | |
|-----------------------------|------------------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 204 | 102 | | |
| Units: Events | | | | |
| number (not applicable) | 17 | 13 | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From baseline (week 0) to end of study (week 71)

Adverse event reporting additional description:

All presented adverse events (AEs) are treatment emergent adverse events (TEAEs). Treatment emergent adverse events: defined as an event with onset during on-treatment observation period. Safety analysis set (SAS) included all participants randomly assigned to study treatment and who took at least 1 dose of trial product.

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

Dictionary used

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

| | |
|--------------------|----|
| Dictionary version | 22 |
|--------------------|----|

Reporting groups

| | |
|-----------------------|---------|
| Reporting group title | Placebo |
|-----------------------|---------|

Reporting group description:

Subjects received placebo tablets matched to oral semaglutide once daily for 64 weeks.

| | |
|-----------------------|------------------------|
| Reporting group title | Oral semaglutide 25 mg |
|-----------------------|------------------------|

Reporting group description:

Subjects received oral semaglutide tablets once daily in a dose escalation manner for 64 weeks: 3 mg (weeks 0 to 4), 7 mg (weeks 5 to 8), 14 mg (weeks 9 to 12), and 25 mg (weeks 13 to 64).

| Serious adverse events | Placebo | Oral semaglutide 25 mg | |
|---------------------------------------------------------------------|-----------------|------------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 9 / 102 (8.82%) | 8 / 204 (3.92%) | |
| number of deaths (all causes) | 0 | 0 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Adrenal neoplasm | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Benign salivary gland neoplasm | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular disorders | | | |
| Hypertension | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypotension | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Surgical and medical procedures | | | |
| Sleeve gastrectomy | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Reproductive system and breast disorders | | | |
| Cervical polyp | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ovarian mass | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Psychiatric disorders | | | |
| Depression | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Suicidal ideation | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Injury, poisoning and procedural complications | | | |
| Fracture displacement | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Meniscus injury | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac disorders | | | |
| Cardiac aneurysm | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Dysarthria | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Headache | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ischaemic stroke | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Memory impairment | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Trigeminal neuralgia | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Blood and lymphatic system disorders | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|--|
| Microcytic anaemia | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Pancreatitis acute | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatobiliary disorders | | | |
| Cholelithiasis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal and urinary disorders | | | |
| Acute kidney injury | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Musculoskeletal and connective tissue disorders | | | |
| Intervertebral disc disorder | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Osteoarthritis | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Furuncle | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| COVID-19 | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumonia | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Metabolism and nutrition disorders | | | |
| Hyponatraemia | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 204 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Iron deficiency | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vitamin D deficiency | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 204 (0.49%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

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

| Non-serious adverse events | Placebo | Oral semaglutide 25 mg | |
|-------------------------------------------------------|-------------------|------------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 79 / 102 (77.45%) | 172 / 204 (84.31%) | |
| Nervous system disorders | | | |
| Dizziness | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 11 / 204 (5.39%) | |
| occurrences (all) | 1 | 14 | |
| Headache | | | |
| subjects affected / exposed | 9 / 102 (8.82%) | 24 / 204 (11.76%) | |
| occurrences (all) | 10 | 34 | |
| General disorders and administration site conditions | | | |

| | | | |
|--------------------------------------------------------------------------------------|-------------------------|--------------------------|--|
| Fatigue subjects affected / exposed occurrences (all) | 1 / 102 (0.98%) 1 | 15 / 204 (7.35%) 15 | |
| Gastrointestinal disorders | | | |
| Abdominal pain subjects affected / exposed occurrences (all) | 4 / 102 (3.92%) 5 | 15 / 204 (7.35%) 16 | |
| Abdominal pain upper subjects affected / exposed occurrences (all) | 2 / 102 (1.96%) 2 | 18 / 204 (8.82%) 23 | |
| Dyspepsia subjects affected / exposed occurrences (all) | 9 / 102 (8.82%) 11 | 37 / 204 (18.14%) 50 | |
| Diarrhoea subjects affected / exposed occurrences (all) | 9 / 102 (8.82%) 10 | 36 / 204 (17.65%) 61 | |
| Constipation subjects affected / exposed occurrences (all) | 10 / 102 (9.80%) 11 | 41 / 204 (20.10%) 59 | |
| Eructation subjects affected / exposed occurrences (all) | 2 / 102 (1.96%) 2 | 21 / 204 (10.29%) 23 | |
| Vomiting subjects affected / exposed occurrences (all) | 6 / 102 (5.88%) 6 | 63 / 204 (30.88%) 105 | |
| Gastrooesophageal reflux disease subjects affected / exposed occurrences (all) | 5 / 102 (4.90%) 5 | 16 / 204 (7.84%) 17 | |
| Nausea subjects affected / exposed occurrences (all) | 19 / 102 (18.63%) 27 | 95 / 204 (46.57%) 157 | |
| Skin and subcutaneous tissue disorders | | | |
| Alopecia subjects affected / exposed occurrences (all) | 2 / 102 (1.96%) 2 | 13 / 204 (6.37%) 14 | |
| Musculoskeletal and connective tissue disorders | | | |

| | | | |
|------------------------------------|-------------------|-------------------|--|
| Back pain | | | |
| subjects affected / exposed | 6 / 102 (5.88%) | 6 / 204 (2.94%) | |
| occurrences (all) | 6 | 6 | |
| Arthralgia | | | |
| subjects affected / exposed | 6 / 102 (5.88%) | 6 / 204 (2.94%) | |
| occurrences (all) | 9 | 6 | |
| Infections and infestations | | | |
| COVID-19 | | | |
| subjects affected / exposed | 18 / 102 (17.65%) | 41 / 204 (20.10%) | |
| occurrences (all) | 19 | 45 | |
| Bronchitis | | | |
| subjects affected / exposed | 7 / 102 (6.86%) | 9 / 204 (4.41%) | |
| occurrences (all) | 8 | 10 | |
| Urinary tract infection | | | |
| subjects affected / exposed | 3 / 102 (2.94%) | 13 / 204 (6.37%) | |
| occurrences (all) | 4 | 16 | |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 9 / 102 (8.82%) | 11 / 204 (5.39%) | |
| occurrences (all) | 13 | 11 | |
| Tonsillitis | | | |
| subjects affected / exposed | 6 / 102 (5.88%) | 5 / 204 (2.45%) | |
| occurrences (all) | 7 | 5 | |
| Sinusitis | | | |
| subjects affected / exposed | 7 / 102 (6.86%) | 7 / 204 (3.43%) | |
| occurrences (all) | 8 | 8 | |
| Nasopharyngitis | | | |
| subjects affected / exposed | 27 / 102 (26.47%) | 43 / 204 (21.08%) | |
| occurrences (all) | 40 | 59 | |
| Influenza | | | |
| subjects affected / exposed | 10 / 102 (9.80%) | 15 / 204 (7.35%) | |
| occurrences (all) | 10 | 21 | |
| Metabolism and nutrition disorders | | | |
| Decreased appetite | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 14 / 204 (6.86%) | |
| occurrences (all) | 1 | 15 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported