



Clinical trial results:

BREATHER (PENTA 16): Short-cycle therapy (SCT) (5 days on/ 2 days off) in young people with chronic HIV-infection

Summary

| | |
|--------------------------|-------------------|
| EudraCT number | 2009-012947-40 |
| Trial protocol | IE GB ES DK BE DE |
| Global end of trial date | |

Results information

| | |
|--------------------------------|------------------|
| Result version number | v1 |
| This version publication date | 04 February 2017 |
| First version publication date | 04 February 2017 |

Trial information

Trial identification

| | |
|-----------------------|---------|
| Sponsor protocol code | PENTA16 |
|-----------------------|---------|

Additional study identifiers

| | |
|------------------------------------|----------------|
| ISRCTN number | ISRCTN97755073 |
| ClinicalTrials.gov id (NCT number) | - |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | The PENTA foundation |
| Sponsor organisation address | Torre della Ricerca Pediatrica Corso Stati Uniti 4, Padova, Italy, 35127 |
| Public contact | University College London, University College London, penta.mrcctu@ucl.ac.uk |
| Scientific contact | University College London, University College London, penta.mrcctu@ucl.ac.uk |

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 | Interim |
| Date of interim/final analysis | 31 July 2014 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 31 July 2014 |
| Global end of trial reached? | No |

Notes:

General information about the trial

Main objective of the trial:

The overall aim of the BREATHER trial is to evaluate the role of Short-Cycle Therapy (SCT) in the management of HIV-infected young people who have responded well to antiretroviral therapy (ART) and to determine whether young people with chronic HIV infection undergoing Short-Cycle Therapy of five days on ART and two days off maintain the same level of viral load suppression as those on continuous therapy, over 48 weeks.

Protection of trial subjects:

In order to assess the safety of the SCT strategy, a pilot study was carried out in 32 young people, who were seen on the Monday morning following having Saturday and Sunday off treatment. Their viral loads were assessed on this visit and the main trial did not commence until the IDMC had confirmed they had no safety concerns as a result of the pilot phase.

Background therapy:

Every young person were on a first-line HAART regimen containing at least 2 NRTI/NtRTIs and EFV.

Evidence for comparator:

Current WHO guidelines recommend a first-line ART regimen containing 2 NRTI/NtRTIs and EFV for treatment of HIV in children.

| | |
|---|---------------------------------------|
| Actual start date of recruitment | 01 April 2011 |
| Long term follow-up planned | Yes |
| Long term follow-up rationale | Safety, Efficacy, Scientific research |
| Long term follow-up duration | 2 Years |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | Spain: 11 |
| Country: Number of subjects enrolled | United Kingdom: 26 |
| Country: Number of subjects enrolled | Belgium: 2 |
| Country: Number of subjects enrolled | Denmark: 3 |
| Country: Number of subjects enrolled | Germany: 3 |
| Country: Number of subjects enrolled | Ireland: 3 |
| Country: Number of subjects enrolled | Thailand: 36 |
| Country: Number of subjects enrolled | Argentina: 11 |
| Country: Number of subjects enrolled | United States: 14 |
| Country: Number of subjects enrolled | Uganda: 70 |
| Country: Number of subjects enrolled | Ukraine: 20 |
| Worldwide total number of subjects | 199 |
| EEA total number of subjects | 48 |

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) | 53 |
| Adolescents (12-17 years) | 104 |
| Adults (18-64 years) | 42 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details: -

Pre-assignment period milestones

| | |
|----------------------------|--------------------|
| Number of subjects started | 225 ^[1] |
|----------------------------|--------------------|

| | |
|------------------------------|-----|
| Number of subjects completed | 199 |
|------------------------------|-----|

Pre-assignment subject non-completion reasons

| | |
|----------------------------|--|
| Reason: Number of subjects | Consent withdrawn by subject: 3 |
| Reason: Number of subjects | Protocol deviation: 21 |
| Reason: Number of subjects | Car crash prevented them making randomisation visit: 1 |
| Reason: Number of subjects | Unreliable attendance: 1 |

Notes:

[1] - The number of subjects reported to have started the pre-assignment period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same.

Justification: 225 young people were screened, but 199 randomised. Reasons for not randomising are documented here.

Period 1

| | |
|----------------|-----------------------------|
| Period 1 title | Main trial (overall period) |
|----------------|-----------------------------|

| | |
|------------------------------|-----|
| Is this the baseline period? | Yes |
|------------------------------|-----|

| | |
|-------------------|-------------------------|
| Allocation method | Randomised - controlled |
|-------------------|-------------------------|

| | |
|---------------|-------------|
| Blinding used | Not blinded |
|---------------|-------------|

Arms

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

| | |
|------------------|--------------------|
| Arm title | Continuous therapy |
|------------------|--------------------|

Arm description:

Patients randomised to continuing their ART strategy, taking ART every day.

| | |
|----------|-----------------|
| Arm type | No intervention |
|----------|-----------------|

No investigational medicinal product assigned in this arm

| | |
|------------------|---------------------|
| Arm title | Short Cycle Therapy |
|------------------|---------------------|

Arm description:

Patients take their ART as normal for 5 days a week, with a break at the weekends, taking no ART for 2 days every week.

The only product entered here is Efavirenz, as all young people in the trial were on Efavirenz. However, it is not the drug that is being investigated in this trial, it is the strategy in which the ART regimen is taken.

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

| | |
|--|-----------|
| Investigational medicinal product name | Efavirenz |
|--|-----------|

| | |
|--|--|
| Investigational medicinal product code | |
|--|--|

| | |
|------------|--|
| Other name | |
|------------|--|

| | |
|----------------------|--------|
| Pharmaceutical forms | Tablet |
|----------------------|--------|

| | |
|--------------------------|----------|
| Routes of administration | Oral use |
|--------------------------|----------|

Dosage and administration details:

Dosed as prescribed by the clinician.

| Number of subjects in period 1 | Continuous therapy | Short Cycle Therapy |
|---------------------------------------|--------------------|---------------------|
| Started | 100 | 99 |
| Completed | 99 | 99 |
| Not completed | 1 | 0 |
| Lost to follow-up | 1 | - |

Baseline characteristics

Reporting groups

| | |
|-----------------------|--------------------|
| Reporting group title | Continuous therapy |
|-----------------------|--------------------|

Reporting group description:

Patients randomised to continuing their ART strategy, taking ART every day.

| | |
|-----------------------|---------------------|
| Reporting group title | Short Cycle Therapy |
|-----------------------|---------------------|

Reporting group description:

Patients take their ART as normal for 5 days a week, with a break at the weekends, taking no ART for 2 days every week.

The only product entered here is Efavirenz, as all young people in the trial were on Efavirenz. However, it is not the drug that is being investigated in this trial, it is the strategy in which the ART regimen is taken.

| Reporting group values | Continuous therapy | Short Cycle Therapy | Total |
|--|--------------------|---------------------|-------|
| Number of subjects | 100 | 99 | 199 |
| 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) | 25 | 28 | 53 |
| Adolescents (12-17 years) | 55 | 49 | 104 |
| Adults (18-64 years) | 20 | 22 | 42 |
| From 65-84 years | 0 | 0 | 0 |
| 85 years and over | 0 | 0 | 0 |
| Age continuous | | | |
| Units: years | | | |
| median | 14.4 | 13.7 | |
| inter-quartile range (Q1-Q3) | 12 to 17.5 | 11.7 to 17.7 | - |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 52 | 42 | 94 |
| Male | 48 | 57 | 105 |
| Route of infection | | | |
| Mode of transmission of HIV | | | |
| Units: Subjects | | | |
| Vertical | 90 | 90 | 180 |
| Sexual contact | 7 | 7 | 14 |
| Blood product | 2 | 1 | 3 |
| Unknown | 1 | 1 | 2 |
| Ethnic origin | | | |
| Ethnicity | | | |
| Units: Subjects | | | |
| White | 17 | 24 | 41 |
| Black | 54 | 58 | 112 |
| Mixed black/white | 4 | 0 | 4 |

| | | | |
|---|--------------|--------------|-----|
| Asian | 22 | 15 | 37 |
| Other | 3 | 2 | 5 |
| CDC stage | | | |
| CDC stage event at randomisation | | | |
| Units: Subjects | | | |
| Stage N | 10 | 16 | 26 |
| Stage A | 25 | 25 | 50 |
| Stage B | 43 | 45 | 88 |
| Stage C | 21 | 13 | 34 |
| Missing | 1 | 0 | 1 |
| Classes of drugs exposed to | | | |
| Classes of drugs exposed to by randomisation | | | |
| Units: Subjects | | | |
| NRTIs, NNRTIs and PIs | 12 | 17 | 29 |
| NRTIs and NNRTIs only | 88 | 82 | 170 |
| Baseline regimen first regimen | | | |
| Is the baseline regimen their first ART regimen? | | | |
| Units: Subjects | | | |
| Yes | 42 | 40 | 82 |
| No | 58 | 59 | 117 |
| Young person questionnaire - how will taking weekends off make things for you? | | | |
| Question from acceptability questionnaire answered by the young person. | | | |
| Units: Subjects | | | |
| A lot easier | 0 | 50 | 50 |
| A little easier | 0 | 20 | 20 |
| No difference | 0 | 8 | 8 |
| A little more difficult | 0 | 2 | 2 |
| A lot more difficult | 0 | 0 | 0 |
| Question not answered | 100 | 19 | 119 |
| Carer questionnaire - how will stopping meds at weekend make things for the young person? | | | |
| Question from acceptability questionnaire answered by the carer. | | | |
| Units: Subjects | | | |
| A lot easier | 0 | 45 | 45 |
| A little easier | 0 | 16 | 16 |
| No difference | 0 | 7 | 7 |
| A little more difficult | 0 | 4 | 4 |
| A lot more difficult | 0 | 1 | 1 |
| Question not answered | 100 | 26 | 126 |
| Weight | | | |
| Weight at randomisation | | | |
| Units: kilogram(s) | | | |
| median | 45.1 | 45.5 | |
| inter-quartile range (Q1-Q3) | 33.9 to 55.7 | 33.1 to 56.2 | - |
| CD4% | | | |
| Mean of CD4% from screening and randomisation visit. | | | |
| Units: percent | | | |
| median | 34 | 34.5 | |
| inter-quartile range (Q1-Q3) | 29.5 to 38.1 | 29.3 to 39 | - |

| | | | |
|---|----------------|---------------|---|
| Absolute CD4 count | | | |
| Mean of CD4 count from screening and randomisation visit. | | | |
| Units: cells/microlitre | | | |
| median | 747.3 | 722.5 | |
| inter-quartile range (Q1-Q3) | 575.3 to 972.8 | 581 to 965 | - |
| Creatinine | | | |
| Creatinine at randomisation | | | |
| Units: milligram(s)/decilitre | | | |
| median | 0.6 | 0.5 | |
| inter-quartile range (Q1-Q3) | 0.5 to 0.7 | 0.4 to 0.7 | - |
| Total bilirubin | | | |
| Total bilirubin at randomisation | | | |
| Units: milligram(s)/decilitre | | | |
| median | 0.3 | 0.2 | |
| inter-quartile range (Q1-Q3) | 0.2 to 0.4 | 0.2 to 0.3 | - |
| Alkaline phosphatase | | | |
| Alkaline phosphatase at randomisation | | | |
| Units: milligram(s)/decilitre | | | |
| median | 224 | 260.5 | |
| inter-quartile range (Q1-Q3) | 130 to 320 | 136 to 347 | - |
| Aspartate transaminase | | | |
| Aspartate transaminase at randomisation | | | |
| Units: unit(s)/litre | | | |
| median | 25 | 25 | |
| inter-quartile range (Q1-Q3) | 20 to 30 | 19 to 34 | - |
| Alanine transaminase | | | |
| Alanine transaminase at randomisation | | | |
| Units: unit(s)/litre | | | |
| median | 17.5 | 18 | |
| inter-quartile range (Q1-Q3) | 14 to 25 | 12 to 26 | - |
| Glucose | | | |
| Glucose at randomisation | | | |
| Units: milligram(s)/decilitre | | | |
| median | 86.5 | 86.4 | |
| inter-quartile range (Q1-Q3) | 81.5 to 90.9 | 82.9 to 91.9 | - |
| Triglycerides | | | |
| Triglycerides at randomisation | | | |
| Units: milligram(s)/decilitre | | | |
| median | 81 | 74.8 | |
| inter-quartile range (Q1-Q3) | 61.7 to 121 | 54.8 to 102.7 | - |
| LDL Cholesterol | | | |
| LDL Cholesterol at randomisation | | | |
| Units: milligram(s)/decilitre | | | |
| median | 85.6 | 89 | |
| inter-quartile range (Q1-Q3) | 76 to 108 | 78.1 to 107.4 | - |
| HDL Cholesterol | | | |
| HDL Cholesterol at randomisation | | | |
| Units: milligram(s)/decilitre | | | |
| median | 54.9 | 51 | |
| inter-quartile range (Q1-Q3) | 46.3 to 68.2 | 42.5 to 62 | - |
| Total cholesterol | | | |
| Total cholesterol at randomisation | | | |

| | | | |
|-----------------------------------|----------------|---------------|---|
| Units: milligram(s)/decilitre | | | |
| median | 164.1 | 158.2 | |
| inter-quartile range (Q1-Q3) | 147.3 to 181.5 | 142.9 to 181 | - |
| Haemoglobin | | | |
| Haemoglobin at randomisation | | | |
| Units: gram(s)/decilitre | | | |
| median | 13.2 | 13.2 | |
| inter-quartile range (Q1-Q3) | 12.3 to 14.2 | 12.2 to 14 | - |
| MCV | | | |
| MCV at randomisation | | | |
| Units: femtolitres | | | |
| median | 92 | 94 | |
| inter-quartile range (Q1-Q3) | 86 to 100.5 | 87.3 to 100.5 | - |
| White cell count | | | |
| White cell count at randomisation | | | |
| Units: /litre | | | |
| median | 5 | 4.6 | |
| inter-quartile range (Q1-Q3) | 4 to 6.3 | 3.9 to 6 | - |
| Lymphocytes | | | |
| Lymphocytes at randomisation | | | |
| Units: /litre | | | |
| median | 2.2 | 2.2 | |
| inter-quartile range (Q1-Q3) | 1.7 to 2.9 | 1.7 to 2.6 | - |
| Neutrophils | | | |
| Neutrophils at randomisation | | | |
| Units: /litre | | | |
| median | 1.9 | 1.9 | |
| inter-quartile range (Q1-Q3) | 1.2 to 3.4 | 1.4 to 2.9 | - |
| Platelets | | | |
| Platelet count at randomisation | | | |
| Units: /litre | | | |
| median | 292.5 | 293 | |
| inter-quartile range (Q1-Q3) | 247.5 to 352.5 | 244 to 352 | - |

End points

End points reporting groups

| | |
|---|---------------------|
| Reporting group title | Continuous therapy |
| Reporting group description: Patients randomised to continuing their ART strategy, taking ART every day. | |
| Reporting group title | Short Cycle Therapy |
| Reporting group description: Patients take their ART as normal for 5 days a week, with a break at the weekends, taking no ART for 2 days every week. | |
| The only product entered here is Efavirenz, as all young people in the trial were on Efavirenz. However, it is not the drug that is being investigated in this trial, it is the strategy in which the ART regimen is taken. | |

Primary: Virological failure (≥ 50 c/ml confirmed).

| | |
|--|--|
| End point title | Virological failure (≥ 50 c/ml confirmed). |
| End point description: The primary endpoint was a confirmed viral load ≥ 50 c/ml within 54 weeks of randomisation. | |
| End point type | Primary |
| End point timeframe: Any time from randomisation to 48(+6) weeks after randomisation. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|-----------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 100 | 99 | | |
| Units: People | | | | |
| Reached endpoint | 7 | 6 | | |
| Did not reach endpoint | 93 | 93 | | |

Statistical analyses

| | |
|--|--|
| Statistical analysis title | Primary analysis - diff in adj. KM estimates |
| Statistical analysis description: Difference in adjusted (for stratification factors) Kaplan-Meier survival function estimates at 54 weeks after randomisation. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[1] |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.012 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | -0.073 |
| upper limit | 0.049 |

Notes:

[1] - Non-inferiority margin = 12%.

Calculated SCT arm survival function - CT arm survival function, so if the upper bound of the 90% confidence interval was <0.12, the results were consistent with non-inferiority of SCT compared with CT.

| | |
|---|--|
| Statistical analysis title | Secondary analysis - unadjusted diff |
| Statistical analysis description: | |
| Difference in Kaplan-Meier survival function estimates at 54 weeks after randomisation. | |
| Comparison groups | Short Cycle Therapy v Continuous therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[2] |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.011 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | -0.068 |
| upper limit | 0.046 |

Notes:

[2] - Non-inferiority margin = 12%.

Calculated SCT arm survival function - CT arm survival function, so if the upper bound of the 90% confidence interval was <0.12, the results were consistent with non-inferiority of SCT compared with CT.

| | |
|---|--|
| Statistical analysis title | Secondary analysis - crude diff |
| Statistical analysis description: | |
| Difference in proportion of YP with confirmed VL>=50c/ml. | |
| Comparison groups | Short Cycle Therapy v Continuous therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[3] |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.009 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | -0.067 |
| upper limit | 0.048 |

Notes:

[3] - Non-inferiority margin = 12%.

Calculated proportion of YP with virological failure in the SCT arm - proportion of YP with virological failure in the CT arm, so if the upper bound of the 90% confidence interval was <0.12, the results were consistent with non-inferiority of SCT compared with CT.

| | |
|---|---------------------------------------|
| Statistical analysis title | Secondary analysis - unadj. Cox model |
| Statistical analysis description: | |
| Cox model examining time to confirmed viral load >=50c/ml | |

| | |
|---|--|
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.755 ^[4] |
| Method | Regression, Cox |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.84 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | 0.34 |
| upper limit | 2.1 |

Notes:

[4] - Non-significant difference between arms.

| | |
|--|--|
| Statistical analysis title | Secondary analysis - adj. Cox model |
| Statistical analysis description: | |
| Cox model examining time to confirmed viral load ≥ 50 c/ml, adjusting for stratification factors. | |
| Comparison groups | Short Cycle Therapy v Continuous therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.743 ^[5] |
| Method | Regression, Cox |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.83 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | 0.33 |
| upper limit | 2.08 |

Notes:

[5] - Non-significant difference between arms.

Secondary: Virological failure (≥ 400 c/ml confirmed).

| | |
|--|---|
| End point title | Virological failure (≥ 400 c/ml confirmed). |
| End point description: | |
| Confirmed viral load ≥ 400 c/ml within 54 weeks of randomisation. | |
| End point type | Secondary |
| End point timeframe: | |
| Any time from randomisation to 48(+6) weeks after randomisation. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|-----------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 100 | 99 | | |
| Units: People | | | | |
| Reached endpoint | 4 | 2 | | |
| Did not reach endpoint | 96 | 97 | | |

Statistical analyses

| Statistical analysis title | Diff. in adj. KM estimates |
|---|--|
| Statistical analysis description: | |
| Difference in adjusted (for stratification factors) Kaplan-Meier survival function estimates at 54 weeks after randomisation. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[6] |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.021 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | -0.062 |
| upper limit | 0.019 |

Notes:

[6] - Calculated SCT arm survival function - CT arm survival function, so if the upper bound of the 90% confidence interval was <0.12, the results were consistent with non-inferiority of SCT compared with CT.

| Statistical analysis title | Unadj. diff. in KM estimates |
|---|--|
| Statistical analysis description: | |
| Difference in Kaplan-Meier survival function estimates at 54 weeks after randomisation. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[7] |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.02 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | -0.061 |
| upper limit | 0.02 |

Notes:

[7] - Calculated SCT arm survival function - CT arm survival function, so if the upper bound of the 90% confidence interval was <0.12, the results were consistent with non-inferiority of SCT compared with CT.

| Statistical analysis title | Crude diff. in proportion |
|---|--|
| Statistical analysis description: | |
| Difference in proportion of YP with confirmed VL≥400c/ml. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[8] |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.02 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | -0.06 |
| upper limit | 0.02 |

Notes:

[8] - Calculated proportion of YP with virological failure in the SCT arm - proportion of YP with virological failure in the CT arm, so if the upper bound of the 90% confidence interval was <0.12, the results were consistent with non-inferiority of SCT compared with CT.

| | |
|--|--|
| Statistical analysis title | Unadj. Cox model |
| Statistical analysis description: | |
| Cox model examining time to confirmed viral load ≥ 400 c/ml | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.4 |
| Method | Regression, Cox |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.48 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | 0.12 |
| upper limit | 2.01 |

| | |
|---|--|
| Statistical analysis title | Adj. Cox model |
| Statistical analysis description: | |
| Cox model examining time to confirmed viral load ≥ 400 c/ml, adjusting for stratification factors. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.399 |
| Method | Regression, Cox |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.48 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | 0.12 |
| upper limit | 2 |

Secondary: SCT change strategy to continuous therapy

| | |
|-----------------|--|
| End point title | SCT change strategy to continuous therapy ^[9] |
|-----------------|--|

End point description:

Any young person that changed strategy from SCT to return to taking daily ART, and reasons for changing.

The protocol states that young people should return to continuous therapy if they experience the primary endpoint, or have 3 viral load "blips" ≥ 50 c/ml, which have a subsequent VL reading that is < 50 c/ml.

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

End point timeframe:

Any time from randomisation to week 48(+6).

Notes:

[9] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: This is only applicable to those randomised to SCT and therefore cannot be reported for those on CT, as they are all already taking their ART every day.

| End point values | Short Cycle Therapy | | | |
|----------------------------------|---------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 99 | | | |
| Units: People | | | | |
| Due to reaching primary endpoint | 6 | | | |
| Due to 3 unconfirmed blips | 0 | | | |
| Due to other reasons | 2 | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Changes in ART regimen

| | |
|-----------------|------------------------|
| End point title | Changes in ART regimen |
|-----------------|------------------------|

End point description:

Number of individuals on a different ART regimen at week 48 to at week 0.

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

End point timeframe:

Randomisation to week 48(+6).

| End point values | Continuous therapy | Short Cycle Therapy | | |
|-----------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 99 ^[10] | 99 | | |
| Units: People | | | | |
| Change in ART regimen | 9 | 3 | | |
| No change in ART regimen | 90 | 96 | | |

Notes:

[10] - 1 young person lost to follow up before week 48 visit

Statistical analyses

| Statistical analysis title | Snapshot comparison at week 48 visit |
|--|--|
| Statistical analysis description: | |
| Fisher's exact test comparing number of young people still on their randomised regimen at week 48 from each arm. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 198 |
| Analysis specification | Post-hoc |
| Analysis type | equivalence |
| P-value | = 0.104 |
| Method | Fisher exact |

Secondary: Young people with major resistance mutations - any class

| End point title | Young people with major resistance mutations - any class |
|--|--|
| End point description: | |
| Resistance tests were performed on everyone that reached the primary endpoint. "Major mutation" defined as in Johnson et. al., 2013, Topics in antiviral medicine. | |
| End point type | Secondary |
| End point timeframe: | |
| Randomisation to week 48(+6) | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|--|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 7 ^[11] | 6 ^[12] | | |
| Units: People | | | | |
| Major mutations present | 5 | 2 | | |
| No major mutations present | 1 | 1 | | |
| Test failed to amplify (insufficient viral load) | 1 | 3 | | |

Notes:

[11] - Only performed on young people that reached the primary endpoint.

[12] - Only performed on young people that reached the primary endpoint.

Statistical analyses

Secondary: Mean change in CD4% at week 48 from randomisation

| | |
|-----------------|---|
| End point title | Mean change in CD4% at week 48 from randomisation |
|-----------------|---|

End point description:

Reporting mean change from the global baseline value (across both arms).

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

End point timeframe:

Randomisation and week 48 visit.

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 94 ^[13] | 93 ^[14] | | |
| Units: percent | | | | |
| arithmetic mean (standard error) | 0.1 (± 0.4) | 0.2 (± 0.4) | | |

Notes:

[13] - All patients with a reading at week 48 and week 0.

[14] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|----------------------------|-------------------|
| Statistical analysis title | Linear regression |
|----------------------------|-------------------|

Statistical analysis description:

Linear regression of CD4% at week 48, adjusting for randomised arm, baseline CD4% and stratification factors. Presenting mean difference between arms.

| | |
|---|--|
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 187 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.76 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.9 |
| upper limit | 1.3 |

Secondary: Mean change in absolute CD4 count at week 48 from randomisation

| | |
|-----------------|---|
| End point title | Mean change in absolute CD4 count at week 48 from randomisation |
|-----------------|---|

End point description:

Reporting mean change from the global baseline value (across both arms).

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

End point timeframe:

Randomisation and week 48 visit.

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 91 ^[15] | 92 ^[16] | | |
| Units: cells/microlitre | | | | |
| arithmetic mean (standard error) | -21.6 (± 21.1) | -34.2 (± 20.9) | | |

Notes:

[15] - All patients with a reading at week 48 and week 0.

[16] - All patients with a reading at week 48 and week 0.

Statistical analyses

| Statistical analysis title | Linear regression. |
|---|--|
| Statistical analysis description: Linear regression of absolute CD4 count at week 48, adjusting for randomised arm, baseline absolute CD4 count and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 183 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.68 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -12.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -71.9 |
| upper limit | 46.9 |

Secondary: Mean change in Creatinine at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in Creatinine at week 48 from randomisation |
| End point description: Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 90 ^[17] | 93 ^[18] | | |
| Units: milligram(s)/decilitre | | | | |
| arithmetic mean (standard error) | 0 (\pm 0) | 0 (\pm 0) | | |

Notes:

[17] - All patients with a reading at week 48 and week 0.

[18] - All patients with a reading at week 48 and week 0.

Statistical analyses

| Statistical analysis title | Linear regression. |
|----------------------------|--------------------|
|----------------------------|--------------------|

Statistical analysis description:

Linear regression of creatinine at week 48, adjusting for randomised arm, baseline creatinine and stratification factors. Presenting mean difference between arms.

| | |
|---|--|
| Comparison groups | Short Cycle Therapy v Continuous therapy |
| Number of subjects included in analysis | 183 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.42 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0 |
| upper limit | 0.1 |

Secondary: Mean change in bilirubin at week 48 from randomisation

| | |
|-----------------|--|
| End point title | Mean change in bilirubin at week 48 from randomisation |
|-----------------|--|

End point description:

Reporting mean change from the global baseline value (across both arms).

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

End point timeframe:

Randomisation and week 48 visit.

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 92 ^[19] | 91 ^[20] | | |
| Units: milligram(s)/decilitre | | | | |
| arithmetic mean (standard error) | 0 (\pm 0) | 0 (\pm 0) | | |

Notes:

[19] - All patients with a reading at week 48 and week 0.

[20] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of bilirubin at week 48, adjusting for randomised arm, baseline bilirubin and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 183 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.45 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0 |
| upper limit | 0.1 |

Secondary: Mean change in Alkaline phosphatase at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in Alkaline phosphatase at week 48 from randomisation |
| End point description: Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 90 ^[21] | 90 ^[22] | | |
| Units: milligram(s)/decilitre | | | | |
| arithmetic mean (standard error) | -17.4 (± 9.3) | -24.8 (± 9.3) | | |

Notes:

[21] - All patients with a reading at week 48 and week 0.

[22] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of Alkaline phosphatase at week 48, adjusting for randomised arm, baseline Alkaline phosphatase and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 180 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.77 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -3.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -28.3 |
| upper limit | 21 |

Secondary: Mean change in Aspartate transaminase at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in Aspartate transaminase at week 48 from randomisation |
| End point description: | |
| Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: | |
| Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 87 ^[23] | 87 ^[24] | | |
| Units: unit(s)/litre | | | | |
| arithmetic mean (standard error) | 0.5 (± 1) | -1.2 (± 1) | | |

Notes:

[23] - All patients with a reading at week 48 and week 0.

[24] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|--|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: | |
| Linear regression of aspartate transaminase at week 48, adjusting for randomised arm, baseline aspartate transaminase and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 174 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.22 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -1.7 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.4 |
| upper limit | 1 |

Secondary: Mean change in Alanine transaminase at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in Alanine transaminase at week 48 from randomisation |
| End point description: Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 91 ^[25] | 92 ^[26] | | |
| Units: unit(s)/litre | | | | |
| arithmetic mean (standard error) | 1.8 (± 1.3) | -0.4 (± 1.3) | | |

Notes:

[25] - All patients with a reading at week 48 and week 0.

[26] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of alanine transaminase at week 48, adjusting for randomised arm, baseline alanine transaminase and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 183 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.23 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -1.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.8 |
| upper limit | 1.4 |

Secondary: Mean change in Glucose at week 48 from randomisation

| | |
|-----------------|--|
| End point title | Mean change in Glucose at week 48 from randomisation |
|-----------------|--|

End point description:

Reporting mean change from the global baseline value (across both arms).

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

End point timeframe:

Randomisation and week 48 visit.

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 89 ^[27] | 90 ^[28] | | |
| Units: milligram(s)/decilitre | | | | |
| arithmetic mean (standard error) | 1.7 (\pm 1.1) | 1.6 (\pm 1.1) | | |

Notes:

[27] - All patients with a reading at week 48 and week 0.

[28] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|----------------------------|--------------------|
| Statistical analysis title | Linear regression. |
|----------------------------|--------------------|

Statistical analysis description:

Linear regression of glucose at week 48, adjusting for randomised arm, baseline glucose and stratification factors. Presenting mean difference between arms.

| | |
|---|--|
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 179 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.93 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.3 |
| upper limit | 3 |

Secondary: Mean change in Triglycerides at week 48 from randomisation

| | |
|-----------------|--|
| End point title | Mean change in Triglycerides at week 48 from randomisation |
|-----------------|--|

End point description:

Reporting mean change from the global baseline value (across both arms).

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

End point timeframe:

Randomisation and week 48 visit.

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 93 ^[29] | 93 ^[30] | | |
| Units: milligram(s)/decilitre | | | | |
| arithmetic mean (standard error) | -2.8 (± 4.8) | 6.3 (± 4.8) | | |

Notes:

[29] - All patients with a reading at week 48 and week 0.

[30] - All patients with a reading at week 48 and week 0.

Statistical analyses

| Statistical analysis title | Linear regression. |
|--|--|
| Statistical analysis description: | |
| Linear regression of triglycerides at week 48, adjusting for randomised arm, baseline triglycerides and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 186 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.2 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 8.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.7 |
| upper limit | 22.2 |

Secondary: Mean change in LDL Cholesterol at week 48 from randomisation

| | |
|--|--|
| End point title | Mean change in LDL Cholesterol at week 48 from randomisation |
| End point description: | |
| Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: | |
| Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 92 ^[31] | 89 ^[32] | | |
| Units: milligram(s)/decilitre | | | | |
| arithmetic mean (standard error) | -0.3 (± 1.6) | 1.3 (± 1.7) | | |

Notes:

[31] - All patients with a reading at week 48 and week 0.

[32] - All patients with a reading at week 48 and week 0.

Statistical analyses

| Statistical analysis title | Linear regression. |
|----------------------------|--------------------|
|----------------------------|--------------------|

Statistical analysis description:

Linear regression of LDL cholesterol at week 48, adjusting for randomised arm, baseline LDL cholesterol and stratification factors. Presenting mean difference between arms.

| | |
|---|--|
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 181 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.52 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 1.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.1 |
| upper limit | 6.1 |

Secondary: Mean change in VLDL cholesterol at week 48 from randomisation

| | |
|-----------------|---|
| End point title | Mean change in VLDL cholesterol at week 48 from randomisation |
|-----------------|---|

End point description:

Reporting mean change from the global baseline value (across both arms).

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

End point timeframe:

Randomisation and week 48 visit.

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 52 ^[33] | 49 ^[34] | | |
| Units: milligram(s)/decilitre | | | | |
| arithmetic mean (standard error) | -1.9 (± 1.1) | -3.1 (± 1.2) | | |

Notes:

[33] - All patients with a reading at week 48 and week 0.

[34] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of VLDL cholesterol at week 48, adjusting for randomised arm, baseline VLDL cholesterol and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 101 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.44 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -1.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.3 |
| upper limit | 1.9 |

Secondary: Mean change in HDL cholesterol at week 48 from randomisation

| | |
|--|--|
| End point title | Mean change in HDL cholesterol at week 48 from randomisation |
| End point description: Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 92 ^[35] | 92 ^[36] | | |
| Units: milligram(s)/decilitre | | | | |
| arithmetic mean (standard error) | -0.5 (± 1) | -2.1 (± 1) | | |

Notes:

[35] - All patients with a reading at week 48 and week 0.

[36] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|--|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: | |
| Linear regression of HDL cholesterol at week 48, adjusting for randomised arm, baseline HDL cholesterol and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 184 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.24 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -1.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.6 |
| upper limit | 1.2 |

| | |
|--|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: | |
| Linear regression of HDL cholesterol at week 48, adjusting for randomised arm, baseline HDL cholesterol and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 184 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.28 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -1.6 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.5 |
| upper limit | 1.3 |

| | |
|--|--|
| Secondary: Mean change in total cholesterol at week 48 from randomisation | |
| End point title | Mean change in total cholesterol at week 48 from randomisation |
| End point description: | |
| Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: | |
| Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 93 ^[37] | 93 ^[38] | | |
| Units: milligram(s)/decilitre | | | | |
| arithmetic mean (standard error) | -2.2 (± 2.1) | 0.6 (± 2) | | |

Notes:

[37] - All patients with a reading at week 48 and week 0.

[38] - All patients with a reading at week 48 and week 0.

Statistical analyses

| Statistical analysis title | Linear regression. |
|--|--|
| Statistical analysis description: | |
| Linear regression of total cholesterol at week 48, adjusting for randomised arm, baseline total cholesterol and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 186 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.35 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 2.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | 8.5 |

Secondary: Mean change in Haemoglobin at week 48 from randomisation

| | |
|--|--|
| End point title | Mean change in Haemoglobin at week 48 from randomisation |
| End point description: | |
| Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: | |
| Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 94 ^[39] | 95 ^[40] | | |
| Units: gram(s)/decilitre | | | | |
| arithmetic mean (standard error) | 0 (\pm 0.1) | 0.1 (\pm 0.1) | | |

Notes:

[39] - All patients with a reading at week 48 and week 0.

[40] - All patients with a reading at week 48 and week 0.

Statistical analyses

| Statistical analysis title | Linear regression. |
|----------------------------|--------------------|
|----------------------------|--------------------|

Statistical analysis description:

Linear regression of haemoglobin at week 48, adjusting for randomised arm, baseline haemoglobin and stratification factors. Presenting mean difference between arms.

| | |
|---|--|
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 189 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.37 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.2 |
| upper limit | 0.4 |

Secondary: Mean change in MCV at week 48 from randomisation

| | |
|-----------------|--|
| End point title | Mean change in MCV at week 48 from randomisation |
|-----------------|--|

End point description:

Reporting mean change from the global baseline value (across both arms).

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

End point timeframe:

Randomisation and week 48 visit.

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 93 ^[41] | 94 ^[42] | | |
| Units: femtolitres | | | | |
| arithmetic mean (standard error) | -1.6 (\pm 0.5) | -3.6 (\pm 0.5) | | |

Notes:

[41] - All patients with a reading at week 48 and week 0.

[42] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of MCV at week 48, adjusting for randomised arm, baseline MCV and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 187 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | < 0.001 ^[43] |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -2.1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.5 |
| upper limit | -0.6 |

Notes:

[43] - Significant difference between arms - higher MCV in the continuous therapy arm.

Secondary: Mean change in white blood cell count at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in white blood cell count at week 48 from randomisation |
| End point description: Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 94 ^[44] | 95 ^[45] | | |
| Units: /litre | | | | |
| arithmetic mean (standard error) | 0.1 (± 0.1) | 0.4 (± 0.1) | | |

Notes:

[44] - All patients with a reading at week 48 and week 0.

[45] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of white blood cell count at week 48, adjusting for randomised arm, baseline white blood cell count and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 189 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.09 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.3 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.1 |
| upper limit | 0.7 |

Secondary: Mean change in Lymphocyte count at week 48 from randomisation

| | |
|------------------------|--|
| End point title | Mean change in Lymphocyte count at week 48 from randomisation |
| End point description: | Reporting mean change from the global baseline value (across both arms). |
| End point type | Secondary |
| End point timeframe: | Randomisation and week 48 visit. |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 91 ^[46] | 91 ^[47] | | |
| Units: /litre | | | | |
| arithmetic mean (standard error) | 0 (± 0.5) | 0.7 (± 0.5) | | |

Notes:

[46] - All patients with a reading at week 48 and week 0.

[47] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: | Linear regression of lymphocyte count at week 48, adjusting for randomised arm, baseline lymphocyte count and stratification factors. Presenting mean difference between arms. |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 182 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.34 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.6 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.7 |
| upper limit | 2.1 |

Secondary: Mean change in Neutrophil count at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in Neutrophil count at week 48 from randomisation |
| End point description: Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 91 ^[48] | 91 ^[49] | | |
| Units: /litre | | | | |
| arithmetic mean (standard error) | 0.1 (± 0.1) | 0.4 (± 0.1) | | |

Notes:

[48] - All patients with a reading at week 48 and week 0.

[49] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of neutrophil count at week 48, adjusting for randomised arm, baseline neutrophil count and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Short Cycle Therapy v Continuous therapy |
| Number of subjects included in analysis | 182 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.12 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.3 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.1 |
| upper limit | 0.7 |

Secondary: Mean change in platelet count at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in platelet count at week 48 from randomisation |
| End point description: Reporting mean change from the global baseline value (across both arms). | |
| End point type | Secondary |
| End point timeframe: Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 94 ^[50] | 95 ^[51] | | |
| Units: /litre | | | | |
| arithmetic mean (standard error) | 7.4 (\pm 6.6) | -13.4 (\pm 6.5) | | |

Notes:

[50] - All patients with a reading at week 48 and week 0.

[51] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of platelet count at week 48, adjusting for randomised arm, baseline platelet count and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Short Cycle Therapy v Continuous therapy |
| Number of subjects included in analysis | 189 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.03 ^[52] |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -20.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -39.1 |
| upper limit | -2.1 |

Notes:

[52] - Significant difference between the arms, higher platelet count in the continuous therapy arm.

Secondary: Young person questionnaire - how did taking weekends off make things for you?

| | |
|--|---|
| End point title | Young person questionnaire - how did taking weekends off make things for you? ^[53] |
| End point description: This questionnaire was only completed in the SCT arm. | |
| End point type | Secondary |
| End point timeframe: Week 48 assessment/time of switch to continuous therapy/ last main trial visit (if after week 48). | |

Notes:

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

Justification: Acceptability questionnaires only completed by those randomised to SCT.

| End point values | Short Cycle Therapy | | | |
|-----------------------------|---------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 99 ^[54] | | | |
| Units: People | | | | |
| Lot easier | 67 | | | |
| Little easier | 14 | | | |
| No difference | 7 | | | |
| Little more difficult | 0 | | | |
| Lot more difficult | 2 | | | |
| Question not answered | 9 | | | |

Notes:

[54] - Only answered by those randomised to SCT arm

Statistical analyses

No statistical analyses for this end point

Secondary: Carer questionnaire - how did stopping meds at weekend make things for the young person?

| | |
|-----------------|--|
| End point title | Carer questionnaire - how did stopping meds at weekend make things for the young person? ^[55] |
|-----------------|--|

End point description:

This questionnaire was only asked in the SCT arm.

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

End point timeframe:

Week 48 assessment/time of switch to continuous therapy/ last main trial visit (if after week 48).

Notes:

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

Justification: Acceptability questionnaires only completed by those randomised to SCT.

| End point values | Short Cycle Therapy | | | |
|-----------------------------|---------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 99 ^[56] | | | |
| Units: People | | | | |
| Lot easier | 49 | | | |
| Little easier | 9 | | | |
| No difference | 3 | | | |
| Little more difficult | 0 | | | |
| Lot more difficult | 0 | | | |
| Question not answered | 38 | | | |

Notes:

[56] - Only answered by those randomised to the SCT arm.

Statistical analyses

No statistical analyses for this end point

Secondary: Adherence- Missed Doses at Last Visit

| | |
|-----------------|---------------------------------------|
| End point title | Adherence- Missed Doses at Last Visit |
|-----------------|---------------------------------------|

End point description:

Participants were asked if they missed any doses since the last visit.

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

End point timeframe:

Collected at Week 4, 12, 24, 36, and 48.

| End point values | Continuous therapy | Short Cycle Therapy | | |
|--|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 100 | 99 | | |
| Units: Number of Questionnaires | | | | |
| Missed doses since last visit: Week 4 | 15 | 23 | | |
| Missed doses since last visit: Week 12 | 19 | 23 | | |
| Missed doses since last visit: Week 24 | 20 | 25 | | |
| Missed doses since last visit: Week 36 | 15 | 22 | | |
| Missed doses since last visit: Week 48 | 18 | 20 | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Comparison of missed doses at week 4 |
| Comparison groups | Short Cycle Therapy v Continuous therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.14 |
| Method | Fisher exact |

| | |
|---|--|
| Statistical analysis title | Comparison of missed doses at week 12 |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.593 |
| Method | Fisher exact |

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Comparison of missed doses at week 24 |
|-----------------------------------|---------------------------------------|

| | |
|---|--|
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.488 |
| Method | Fisher exact |

| | |
|---|--|
| Statistical analysis title | Comparison of missed doses at week 38 |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.193 |
| Method | Fisher exact |

| | |
|---|--|
| Statistical analysis title | Comparison of missed doese at week 48 |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 199 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.854 |
| Method | Fisher exact |

Other pre-specified: Mean change in CD8% at week 48 from randomisation

| | |
|------------------------|--|
| End point title | Mean change in CD8% at week 48 from randomisation |
| End point description: | Reporting mean change from the global baseline value (across both arms). |
| End point type | Other pre-specified |
| End point timeframe: | Randomisation and week 48 visit. |

| | | | | |
|----------------------------------|--------------------|---------------------|--|--|
| End point values | Continuous therapy | Short Cycle Therapy | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 86 ^[57] | 89 ^[58] | | |
| Units: percent | | | | |
| arithmetic mean (standard error) | -0.3 (± 0.5) | -0.5 (± 0.5) | | |

Notes:

[57] - All patients with a reading at week 48 and week 0.

[58] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of CD8% at week 48, adjusting for randomised arm, baseline CD8% and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 175 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.8 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.6 |
| upper limit | 1.2 |

Other pre-specified: Mean change in absolute CD8 count at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in absolute CD8 count at week 48 from randomisation |
| End point description: Reporting mean change from the global baseline value (across both arms). | |
| End point type | Other pre-specified |
| End point timeframe: Randomisation and week 48 visit. | |

| | | | | |
|----------------------------------|--------------------|---------------------|--|--|
| End point values | Continuous therapy | Short Cycle Therapy | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 86 ^[59] | 89 ^[60] | | |
| Units: cells/microlitre | | | | |
| arithmetic mean (standard error) | -14.8 (± 24.5) | -22.1 (± 23.8) | | |

Notes:

[59] - All patients with a reading at week 48 and week 0.

[60] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of absolute CD8 count at week 48, adjusting for randomised arm, baseline absolute CD8 count and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 175 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.85 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -6.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -74.5 |
| upper limit | 61.7 |

Other pre-specified: Mean change in CD3% at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in CD3% at week 48 from randomisation |
| End point description: | |
| Reporting mean change from the global baseline value (across both arms). | |
| End point type | Other pre-specified |
| End point timeframe: | |
| Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 86 ^[61] | 88 ^[62] | | |
| Units: percent | | | | |
| arithmetic mean (standard error) | -0.7 (± 0.7) | -0.7 (± 0.7) | | |

Notes:

[61] - All patients with a reading at week 48 and week 0.

[62] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|--|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: | |
| Linear regression of CD3% at week 48, adjusting for randomised arm, baseline CD3% and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Short Cycle Therapy v Continuous therapy |
| Number of subjects included in analysis | 174 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.99 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.9 |
| upper limit | 1.9 |

Other pre-specified: Mean change in absolute CD3 count at week 48 from randomisation

| | |
|--|---|
| End point title | Mean change in absolute CD3 count at week 48 from randomisation |
| End point description: Reporting mean change from the global baseline value (across both arms). | |
| End point type | Other pre-specified |
| End point timeframe: Randomisation and week 48 visit. | |

| End point values | Continuous therapy | Short Cycle Therapy | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 86 ^[63] | 88 ^[64] | | |
| Units: cells/microlitre | | | | |
| arithmetic mean (standard error) | -25.9 (± 49.5) | -56.6 (± 48.4) | | |

Notes:

[63] - All patients with a reading at week 48 and week 0.

[64] - All patients with a reading at week 48 and week 0.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Linear regression. |
| Statistical analysis description: Linear regression of absolute CD3 count at week 48, adjusting for randomised arm, baseline absolute CD3 count and stratification factors. Presenting mean difference between arms. | |
| Comparison groups | Continuous therapy v Short Cycle Therapy |
| Number of subjects included in analysis | 174 |
| Analysis specification | Pre-specified |
| Analysis type | equivalence |
| P-value | = 0.72 |
| Method | Regression, Linear |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -25.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -163.7 |
| upper limit | 112.7 |

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Randomisation to 54 weeks after randomisation.

Adverse event reporting additional description:

For non-serious adverse events we reported grade three or four adverse clinical or laboratory adverse events.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 16.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|--------------------|
| Reporting group title | Continuous therapy |
|-----------------------|--------------------|

Reporting group description:

Patients randomised to continuing their ART strategy, taking ART every day.

| | |
|-----------------------|---------------------|
| Reporting group title | Short Cycle Therapy |
|-----------------------|---------------------|

Reporting group description:

Patients take their ART as normal for 5 days a week, with a break at the weekends, taking no ART for 2 days every week.

| Serious adverse events | Continuous therapy | Short Cycle Therapy | |
|---|--------------------|---------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 3 / 100 (3.00%) | 6 / 99 (6.06%) | |
| 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) | | | |
| Kaposi's sarcoma AIDS related | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Surgical and medical procedures | | | |
| Hospitalisation (following contusion of chest) | | | |
| subjects affected / exposed | 1 / 100 (1.00%) | 0 / 99 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Headache | | | |

| | | | |
|---|-----------------|----------------|--|
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hemiparesis | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Investigation (Collapsed) | | | |
| subjects affected / exposed | 1 / 100 (1.00%) | 0 / 99 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pregnancy, puerperium and perinatal conditions | | | |
| Abortion spontaneous | | | |
| subjects affected / exposed | 1 / 100 (1.00%) | 1 / 99 (1.01%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Epistaxis | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Psychiatric disorders | | | |
| Suicidal ideation | | | |
| subjects affected / exposed | 1 / 100 (1.00%) | 0 / 99 (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 | | | |
| Measles | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Appendicitis | | | |

| | | | |
|---|-----------------|----------------|--|
| subjects affected / exposed | 1 / 100 (1.00%) | 0 / 99 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infective exacerbation of bronchiectasis | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Neurosyphilis | | | |
| subjects affected / exposed | 1 / 100 (1.00%) | 0 / 99 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

Frequency threshold for reporting non-serious adverse events: 0 %

| Non-serious adverse events | Continuous therapy | Short Cycle Therapy | |
|---|--------------------|---------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 12 / 100 (12.00%) | 8 / 99 (8.08%) | |
| Investigations | | | |
| Blood alkaline phosphatase increased | | | |
| subjects affected / exposed | 1 / 100 (1.00%) | 0 / 99 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Blood bilirubin increased | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences (all) | 0 | 1 | |
| Blood calcium decreased | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences (all) | 0 | 1 | |
| Blood glucose decreased | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences (all) | 0 | 1 | |
| Low density lipoprotein increased | | | |
| subjects affected / exposed | 1 / 100 (1.00%) | 1 / 99 (1.01%) | |
| occurrences (all) | 1 | 1 | |
| Neutrophil count decreased | | | |

| | | | |
|---|----------------------|---------------------|--|
| subjects affected / exposed occurrences (all) | 6 / 100 (6.00%) 6 | 2 / 99 (2.02%) 2 | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) Kaposi's Sarcoma AIDS related subjects affected / exposed occurrences (all) | 0 / 100 (0.00%) 0 | 1 / 99 (1.01%) 1 | |
| Surgical and medical procedures Hospitalisation subjects affected / exposed occurrences (all) | 1 / 100 (1.00%) 1 | 0 / 99 (0.00%) 0 | |
| Inguinal hernia repair subjects affected / exposed occurrences (all) | 1 / 100 (1.00%) 1 | 0 / 99 (0.00%) 0 | |
| Nervous system disorders Headache subjects affected / exposed occurrences (all) | 0 / 100 (0.00%) 0 | 1 / 99 (1.01%) 1 | |
| Hemiparesis subjects affected / exposed occurrences (all) | 0 / 100 (0.00%) 0 | 1 / 99 (1.01%) 1 | |
| Collapse/suspected seizure subjects affected / exposed occurrences (all) | 1 / 100 (1.00%) 1 | 0 / 99 (0.00%) 0 | |
| Reproductive system and breast disorders Gynaecomastia subjects affected / exposed occurrences (all) | 0 / 100 (0.00%) 0 | 1 / 99 (1.01%) 1 | |
| Skin and subcutaneous tissue disorders Lipohypertrophy subjects affected / exposed occurrences (all) | 1 / 100 (1.00%) 1 | 0 / 99 (0.00%) 0 | |
| Psychiatric disorders Suicidal ideation subjects affected / exposed occurrences (all) | 1 / 100 (1.00%) 1 | 0 / 99 (0.00%) 0 | |
| Infections and infestations | | | |

| | | | |
|---|-----------------|----------------|--|
| Appendicitis | | | |
| subjects affected / exposed | 1 / 100 (1.00%) | 0 / 99 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Gastroenteritis | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences (all) | 0 | 1 | |
| Infective exacerbation of bronchiectasis | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences (all) | 0 | 1 | |
| Measles | | | |
| subjects affected / exposed | 0 / 100 (0.00%) | 1 / 99 (1.01%) | |
| occurrences (all) | 0 | 1 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|---------------|--|
| 01 April 2014 | The TSC recommended that the participants are followed for 2 years after completion of the main trial (long term follow up). |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported