



## Clinical trial results:

### OCTUMI-4: Evaluation of Mirtazapine and Folic Acid for Schizophrenia: A randomised, double-blind, 2x2 factorial trial

#### Summary

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2009-014469-19 |
| Trial protocol           | GB FI IT       |
| Global end of trial date | 18 August 2014 |

#### Results information

|                                |              |
|--------------------------------|--------------|
| Result version number          | v1 (current) |
| This version publication date  | 27 July 2016 |
| First version publication date | 27 July 2016 |

#### Trial information

##### Trial identification

|                       |                    |
|-----------------------|--------------------|
| Sponsor protocol code | RECOVERY[OCTUMI-4] |
|-----------------------|--------------------|

##### Additional study identifiers

|                                    |                |
|------------------------------------|----------------|
| ISRCTN number                      | ISRCTN32434568 |
| ClinicalTrials.gov id (NCT number) | -              |
| WHO universal trial number (UTN)   | -              |

Notes:

#### Sponsors

|                              |                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Sponsor organisation name    | University of Oxford                                                                                                |
| Sponsor organisation address | Wellington Square, Oxford, United Kingdom, OX1 2JD                                                                  |
| Public contact               | Professor John Geddes, University of Oxford Department of Psychiatry, =44 Email address, john.geddes@psych.ox.ac.uk |
| Scientific contact           | Professor John Geddes, University of Oxford Department of Psychiatry, +44 1865 226451, john.geddes@psych.ox.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:

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## Results analysis stage

|                                                      |                |
|------------------------------------------------------|----------------|
| Analysis stage                                       | Final          |
| Date of interim/final analysis                       | 11 April 2016  |
| Is this the analysis of the primary completion data? | Yes            |
| Primary completion date                              | 18 August 2014 |
| Global end of trial reached?                         | Yes            |
| Global end of trial date                             | 18 August 2014 |
| Was the trial ended prematurely?                     | Yes            |

Notes:

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## General information about the trial

Main objective of the trial:

Principal research question: Is mirtazapine as add-on therapy to antipsychotic treatment more effective than placebo for treatment of positive and negative symptoms of schizophrenia?

Current treatments for schizophrenia, primarily antipsychotic drugs, are not fully effective. There is some evidence that treatment with mirtazapine plus an antipsychotic may be more effective than an antipsychotic alone ((Berk, Ichim & Brook 2001; Joffe et al. 2009; Zoccali et al. 2004)). OCTUMI-4 is designed to evaluate the effects of mirtazapine as add-on therapy to antipsychotic treatment in patients with schizophrenia who are currently experiencing active psychotic symptoms. OCTUMI-4 will be a double-blind placebo controlled randomised trial.

### References

Berk, Ichim & Brook 2001. Int.Clin.Psychopharmacol, vol. 16, no. 2, pp. 87-92.

Joffe et al. 2009. Schizophr.Res., vol. 108, no. 1-3, pp. 245-251.

Zoccali et al. 2004. Int.Clin.Psychopharmacol, vol. 19, no. 2, pp. 71-76.

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Protection of trial subjects:

If participants had difficulty concentrating during trial visits or became distressed the visit could be stopped and continued on another day.

Background therapy:

The eligibility criteria required participants to be on an effective dose of an antipsychotic medicine. (Effective was defined as the range given in the British National Formulary for maintenance treatment.)

Evidence for comparator:

Both IMPs (mirtazapine and folic acid) were compared to matched placebos. Participants were already being prescribed standard therapy for psychotic symptoms and the IMPs were prescribed as adjunctive treatment. There were no standard adjunctive treatments to use as comparators.

|                                                           |                 |
|-----------------------------------------------------------|-----------------|
| Actual start date of recruitment                          | 01 January 2011 |
| Long term follow-up planned                               | No              |
| Independent data monitoring committee (IDMC) involvement? | Yes             |

Notes:

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## Population of trial subjects

### Subjects enrolled per country

|                                      |                    |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | Finland: 9         |
| Country: Number of subjects enrolled | United Kingdom: 37 |
| Country: Number of subjects enrolled | Italy: 7           |
| Worldwide total number of subjects   | 53                 |
| EEA total number of subjects         | 53                 |

Notes:

| <b>Subjects enrolled per age group</b>    |    |
|-------------------------------------------|----|
| In utero                                  | 0  |
| Preterm newborn - gestational age < 37 wk | 0  |
| Newborns (0-27 days)                      | 0  |
| Infants and toddlers (28 days-23 months)  | 0  |
| Children (2-11 years)                     | 0  |
| Adolescents (12-17 years)                 | 0  |
| Adults (18-64 years)                      | 52 |
| From 65 to 84 years                       | 1  |
| 85 years and over                         | 0  |

## Subject disposition

### Recruitment

Recruitment details:

First participant was randomised on 13/4/2011 and last participant was randomised on 23/7/2013 across seven UK sites (Berkshire, Humber, Leeds, Lothian, Coventry/Warwick, Oxford, SW York), one Italy site and one Finland site.

### Pre-assignment

Screening details:

Participants were enrolled into a 7 to 14 day run-in phase prior to randomisation. During which, the antipsychotic treatment were prescribed for the duration of the randomised phase was established. No trial drugs or placebos were given during this phase. After the run-in phase, participants were assessed for eligibility for randomisation.

### Pre-assignment period milestones

|                              |                   |
|------------------------------|-------------------|
| Number of subjects started   | 64 <sup>[1]</sup> |
| Number of subjects completed | 53                |

### Pre-assignment subject non-completion reasons

|                            |                      |
|----------------------------|----------------------|
| Reason: Number of subjects | PANSS score < 60: 11 |
|----------------------------|----------------------|

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: 11 participants were no longer eligible for randomisation after the run-in

### Period 1

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

Blinding implementation details:

This is a placebo blind study

### Arms

|                              |                          |
|------------------------------|--------------------------|
| Are arms mutually exclusive? | Yes                      |
| <b>Arm title</b>             | Mirtazapine + Folic Acid |

Arm description:

Mirtazapine + Folic Acid

|                                        |                             |
|----------------------------------------|-----------------------------|
| Arm type                               | Experimental + Experimental |
| Investigational medicinal product name | Mirtazapine                 |
| Investigational medicinal product code | N06AX11                     |
| Other name                             |                             |
| Pharmaceutical forms                   | Tablet                      |
| Routes of administration               | Oral use                    |

Dosage and administration details:

Mirtazapine: 30mg/day for 12 weeks followed by a 2-week tapering period of 30mg every other day.

|                                        |            |
|----------------------------------------|------------|
| Investigational medicinal product name | Folic acid |
| Investigational medicinal product code | A11E       |
| Other name                             |            |
| Pharmaceutical forms                   | Tablet     |

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

Dosage and administration details:

Folic acid: 500microg/day for 12 weeks.

|                  |                                  |
|------------------|----------------------------------|
| <b>Arm title</b> | Mirtazapine + Folic Acid placebo |
|------------------|----------------------------------|

Arm description:

Mirtazapine + Folic Acid Placebo

|          |                        |
|----------|------------------------|
| Arm type | Experimental + Placebo |
|----------|------------------------|

No investigational medicinal product assigned in this arm

|                  |                             |
|------------------|-----------------------------|
| <b>Arm title</b> | Mirtazapine + No Folic Acid |
|------------------|-----------------------------|

Arm description:

Mirtazapine + No Folic Acid

|          |                                |
|----------|--------------------------------|
| Arm type | Experimental + No intervention |
|----------|--------------------------------|

No investigational medicinal product assigned in this arm

|                  |                                  |
|------------------|----------------------------------|
| <b>Arm title</b> | Mirtazapine Placebo + Folic Acid |
|------------------|----------------------------------|

Arm description:

Mirtazapine Placebo + Folic Acid

|          |                        |
|----------|------------------------|
| Arm type | Placebo + Experimental |
|----------|------------------------|

No investigational medicinal product assigned in this arm

|                  |                                          |
|------------------|------------------------------------------|
| <b>Arm title</b> | Mirtazapine Placebo + Folic Acid placebo |
|------------------|------------------------------------------|

Arm description:

Mirtazapine Placebo + Folic Acid placebo

|          |                   |
|----------|-------------------|
| Arm type | Placebo + Placebo |
|----------|-------------------|

No investigational medicinal product assigned in this arm

|                  |                                     |
|------------------|-------------------------------------|
| <b>Arm title</b> | Mirtazapine Placebo + No Folic Acid |
|------------------|-------------------------------------|

Arm description:

Mirtazapine Placebo + No Folic Acid

|          |                           |
|----------|---------------------------|
| Arm type | Placebo + No intervention |
|----------|---------------------------|

No investigational medicinal product assigned in this arm

| <b>Number of subjects in period 1</b> | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine + No Folic Acid |
|---------------------------------------|--------------------------|----------------------------------|-----------------------------|
| Started                               | 14                       | 12                               | 1                           |
| Completed                             | 14                       | 12                               | 1                           |

| <b>Number of subjects in period 1</b> | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + Folic Acid placebo | Mirtazapine Placebo + No Folic Acid |
|---------------------------------------|----------------------------------|------------------------------------------|-------------------------------------|
| Started                               | 12                               | 13                                       | 1                                   |
| Completed                             | 12                               | 13                                       | 1                                   |

|                                                              |                                          |
|--------------------------------------------------------------|------------------------------------------|
| <b>Period 2</b>                                              |                                          |
| Period 2 title                                               | Week 4                                   |
| Is this the baseline period?                                 | No                                       |
| Allocation method                                            | Randomised - controlled                  |
| Blinding used                                                | Double blind                             |
| Roles blinded                                                | Subject, Investigator                    |
| <b>Arms</b>                                                  |                                          |
| Are arms mutually exclusive?                                 | Yes                                      |
| <b>Arm title</b>                                             | Mirtazapine + Folic Acid                 |
| Arm description:<br>Mirtazapine Placebo + Folic Acid         |                                          |
| Arm type                                                     | Experimental + Experimental              |
| No investigational medicinal product assigned in this arm    |                                          |
| <b>Arm title</b>                                             | Mirtazapine + Folic Acid placebo         |
| Arm description:<br>Mirtazapine Placebo + Folic Acid Placebo |                                          |
| Arm type                                                     | Experimental + Placebo                   |
| No investigational medicinal product assigned in this arm    |                                          |
| <b>Arm title</b>                                             | Mirtazapine + No Folic Acid              |
| Arm description:<br>Mirtazapine + No Folic Acid              |                                          |
| Arm type                                                     | Experimental + No intervention           |
| No investigational medicinal product assigned in this arm    |                                          |
| <b>Arm title</b>                                             | Mirtazapine Placebo + Folic Acid         |
| Arm description:<br>Mirtazapine Placebo + Folic Acid         |                                          |
| Arm type                                                     | Placebo + Experimental                   |
| No investigational medicinal product assigned in this arm    |                                          |
| <b>Arm title</b>                                             | Mirtazapine Placebo + Folic Acid Placebo |
| Arm description:<br>Mirtazapine Placebo + Folic Acid Placebo |                                          |
| Arm type                                                     | Placebo + Placebo                        |
| No investigational medicinal product assigned in this arm    |                                          |
| <b>Arm title</b>                                             | Mirtazapine Placebo + No Folic Acid      |
| Arm description:<br>Mirtazapine Placebo + No Folic Acid      |                                          |
| Arm type                                                     | Placebo + No intervention                |
| No investigational medicinal product assigned in this arm    |                                          |

| <b>Number of subjects in period 2<sup>[2]</sup></b> | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine + No Folic Acid |
|-----------------------------------------------------|--------------------------|----------------------------------|-----------------------------|
| Started                                             | 13                       | 12                               | 1                           |
| Completed                                           | 13                       | 10                               | 1                           |
| Not completed                                       | 0                        | 2                                | 0                           |
| Consent withdrawn by subject                        | -                        | -                                | -                           |

|                   |   |   |   |
|-------------------|---|---|---|
| Trial terminated  | - | 1 | - |
| Lost to follow-up | - | 1 | - |

| <b>Number of subjects in period 2<sup>[2]</sup></b> | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid |
|-----------------------------------------------------|----------------------------------|------------------------------------------|-------------------------------------|
| Started                                             | 12                               | 13                                       | 1                                   |
| Completed                                           | 10                               | 12                                       | 1                                   |
| Not completed                                       | 2                                | 1                                        | 0                                   |
| Consent withdrawn by subject                        | 1                                | -                                        | -                                   |
| Trial terminated                                    | -                                | 1                                        | -                                   |
| Lost to follow-up                                   | 1                                | -                                        | -                                   |

Notes:

[2] - The number of subjects starting the period is not consistent with the number completing the preceding period. It is expected the number of subjects starting the subsequent period will be the same as the number completing the preceding period.

Justification: Participants excluded due to attrition

### Period 3

|                              |                         |
|------------------------------|-------------------------|
| Period 3 title               | Week 8                  |
| Is this the baseline period? | No                      |
| Allocation method            | Randomised - controlled |
| Blinding used                | Double blind            |
| Roles blinded                | Subject, Investigator   |

### Arms

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

|                  |                          |
|------------------|--------------------------|
| <b>Arm title</b> | Mirtazapine + Folic Acid |
|------------------|--------------------------|

Arm description:

Mirtazapine + Folic Acid

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

No investigational medicinal product assigned in this arm

|                  |                                  |
|------------------|----------------------------------|
| <b>Arm title</b> | Mirtazapine + Folic Acid placebo |
|------------------|----------------------------------|

Arm description:

Mirtazapine + Folic Acid placebo

|          |                        |
|----------|------------------------|
| Arm type | Experimental + Placebo |
|----------|------------------------|

No investigational medicinal product assigned in this arm

|                  |                             |
|------------------|-----------------------------|
| <b>Arm title</b> | Mirtazapine + No Folic Acid |
|------------------|-----------------------------|

Arm description:

Mirtazapine + No Folic Acid

|          |                                |
|----------|--------------------------------|
| Arm type | Experimental + No intervention |
|----------|--------------------------------|

No investigational medicinal product assigned in this arm

|                  |                                  |
|------------------|----------------------------------|
| <b>Arm title</b> | Mirtazapine Placebo + Folic Acid |
|------------------|----------------------------------|

Arm description:

Mirtazapine Placebo + Folic Acid

|          |                        |
|----------|------------------------|
| Arm type | Placebo + Experimental |
|----------|------------------------|

No investigational medicinal product assigned in this arm

|                  |                                  |
|------------------|----------------------------------|
| <b>Arm title</b> | Mirtazapine Placebo + Folic Acid |
|------------------|----------------------------------|

Arm description:

Mirtazapine Placebo + Folic Acid

|                                                           |                                     |
|-----------------------------------------------------------|-------------------------------------|
| Arm type                                                  | Placebo + Experimental              |
| No investigational medicinal product assigned in this arm |                                     |
| <b>Arm title</b>                                          | Mirtazapine Placebo + No Folic Acid |
| Arm description:<br>Mirtazapine Placebo + No Folic Acid   |                                     |
| Arm type                                                  | Placebo + No intervention           |
| No investigational medicinal product assigned in this arm |                                     |

| <b>Number of subjects in period 3</b> | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine + No Folic Acid |
|---------------------------------------|--------------------------|----------------------------------|-----------------------------|
| Started                               | 13                       | 10                               | 1                           |
| Completed                             | 13                       | 10                               | 1                           |

| <b>Number of subjects in period 3</b> | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + No Folic Acid |
|---------------------------------------|----------------------------------|----------------------------------|-------------------------------------|
| Started                               | 10                               | 12                               | 1                                   |
| Completed                             | 10                               | 12                               | 1                                   |

#### Period 4

|                              |                         |
|------------------------------|-------------------------|
| Period 4 title               | Week 12                 |
| Is this the baseline period? | No                      |
| Allocation method            | Randomised - controlled |
| Blinding used                | Double blind            |
| Roles blinded                | Subject, Investigator   |

#### Arms

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

|                  |                          |
|------------------|--------------------------|
| <b>Arm title</b> | Mirtazapine + Folic Acid |
|------------------|--------------------------|

|                                              |  |
|----------------------------------------------|--|
| Arm description:<br>Mirtazapine + Folic Acid |  |
|----------------------------------------------|--|

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

|                                                           |  |
|-----------------------------------------------------------|--|
| No investigational medicinal product assigned in this arm |  |
|-----------------------------------------------------------|--|

|                  |                                  |
|------------------|----------------------------------|
| <b>Arm title</b> | Mirtazapine + Folic Acid Placebo |
|------------------|----------------------------------|

|                                                              |  |
|--------------------------------------------------------------|--|
| Arm description:<br>Mirtazapine Placebo + Folic Acid Placebo |  |
|--------------------------------------------------------------|--|

|          |                        |
|----------|------------------------|
| Arm type | Experimental + Placebo |
|----------|------------------------|

|                                                           |  |
|-----------------------------------------------------------|--|
| No investigational medicinal product assigned in this arm |  |
|-----------------------------------------------------------|--|

|                  |                             |
|------------------|-----------------------------|
| <b>Arm title</b> | Mirtazapine + No Folic Acid |
|------------------|-----------------------------|

|                                                         |  |
|---------------------------------------------------------|--|
| Arm description:<br>Mirtazapine Placebo + No Folic Acid |  |
|---------------------------------------------------------|--|

|          |                                |
|----------|--------------------------------|
| Arm type | Experimental + No intervention |
|----------|--------------------------------|

|                                                           |  |
|-----------------------------------------------------------|--|
| No investigational medicinal product assigned in this arm |  |
|-----------------------------------------------------------|--|



|                                                           |                                          |
|-----------------------------------------------------------|------------------------------------------|
| <b>Arm title</b>                                          | Mirtazapine Placebo + Folic Acid         |
| Arm description:                                          |                                          |
| Mirtazapine Placebo + Folic Acid                          |                                          |
| Arm type                                                  | Placebo + Experimental                   |
| No investigational medicinal product assigned in this arm |                                          |
| <b>Arm title</b>                                          | Mirtazapine Placebo + Folic Acid Placebo |
| Arm description:                                          |                                          |
| Mirtazapine Placebo + Folic Acid Placebo                  |                                          |
| Arm type                                                  | Placebo + Placebo                        |
| No investigational medicinal product assigned in this arm |                                          |
| <b>Arm title</b>                                          | Mirtazapine Placebo + No Folic Acid      |
| Arm description:                                          |                                          |
| Mirtazapine Placebo + No Folic Acid                       |                                          |
| Arm type                                                  | Placebo + No intervention                |
| No investigational medicinal product assigned in this arm |                                          |

| <b>Number of subjects in period 4<sup>[3]</sup></b> | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid Placebo | Mirtazapine + No Folic Acid |
|-----------------------------------------------------|--------------------------|----------------------------------|-----------------------------|
| Started                                             | 13                       | 9                                | 1                           |
| Completed                                           | 13                       | 9                                | 1                           |
| Not completed                                       | 0                        | 0                                | 0                           |
| Unknown                                             | -                        | -                                | -                           |
| Protocol deviation                                  | -                        | -                                | -                           |

| <b>Number of subjects in period 4<sup>[3]</sup></b> | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid |
|-----------------------------------------------------|----------------------------------|------------------------------------------|-------------------------------------|
| Started                                             | 10                               | 12                                       | 1                                   |
| Completed                                           | 10                               | 11                                       | 0                                   |
| Not completed                                       | 0                                | 1                                        | 1                                   |
| Unknown                                             | -                                | -                                        | 1                                   |
| Protocol deviation                                  | -                                | 1                                        | -                                   |

Notes:

[3] - The number of subjects starting the period is not consistent with the number completing the preceding period. It is expected the number of subjects starting the subsequent period will be the same as the number completing the preceding period.

Justification: Participants excluded due to attrition

## Baseline characteristics

| Reporting groups                                                         |                                          |
|--------------------------------------------------------------------------|------------------------------------------|
| Reporting group title                                                    | Mirtazapine + Folic Acid                 |
| Reporting group description:<br>Mirtazapine + Folic Acid                 |                                          |
| Reporting group title                                                    | Mirtazapine + Folic Acid placebo         |
| Reporting group description:<br>Mirtazapine + Folic Acid Placebo         |                                          |
| Reporting group title                                                    | Mirtazapine + No Folic Acid              |
| Reporting group description:<br>Mirtazapine + No Folic Acid              |                                          |
| Reporting group title                                                    | Mirtazapine Placebo + Folic Acid         |
| Reporting group description:<br>Mirtazapine Placebo + Folic Acid         |                                          |
| Reporting group title                                                    | Mirtazapine Placebo + Folic Acid placebo |
| Reporting group description:<br>Mirtazapine Placebo + Folic Acid placebo |                                          |
| Reporting group title                                                    | Mirtazapine Placebo + No Folic Acid      |
| Reporting group description:<br>Mirtazapine Placebo + No Folic Acid      |                                          |

| Reporting group values                             | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine + No Folic Acid |
|----------------------------------------------------|--------------------------|----------------------------------|-----------------------------|
| Number of subjects                                 | 14                       | 12                               | 1                           |
| Age categorical<br>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)                               | 13                       | 12                               | 1                           |
| From 65-84 years                                   | 1                        | 0                                | 0                           |
| 85 years and over                                  | 0                        | 0                                | 0                           |
| Age continuous<br>Units: years                     |                          |                                  |                             |
| arithmetic mean                                    | 48.9                     | 42.5                             | 20.7                        |
| standard deviation                                 | ± 11.8                   | ± 8.7                            | ± 0                         |
| Gender categorical<br>Units: Subjects              |                          |                                  |                             |
| Female                                             | 4                        | 2                                | 0                           |
| Male                                               | 10                       | 10                               | 1                           |
| PANSS negative score<br>Units: Subjects            |                          |                                  |                             |
| 0-2                                                | 4                        | 9                                | 1                           |
| 3-7                                                | 10                       | 3                                | 0                           |

|                                         |                                     |                                             |                                        |
|-----------------------------------------|-------------------------------------|---------------------------------------------|----------------------------------------|
| PANSS Score                             |                                     |                                             |                                        |
| Units: Subjects                         |                                     |                                             |                                        |
| < 75                                    | 5                                   | 5                                           | 1                                      |
| >=75                                    | 9                                   | 7                                           | 0                                      |
| Duration of illness                     |                                     |                                             |                                        |
| Units: Subjects                         |                                     |                                             |                                        |
| < 1 year                                | 0                                   | 0                                           | 0                                      |
| 1-5 years                               | 1                                   | 1                                           | 0                                      |
| >=5 years                               | 13                                  | 11                                          | 1                                      |
| Benzodiazepines                         |                                     |                                             |                                        |
| Units: Subjects                         |                                     |                                             |                                        |
| Not prescribed/not taken                | 10                                  | 11                                          | 1                                      |
| Prescribed/taken                        | 4                                   | 1                                           | 0                                      |
| Mood stabilisers                        |                                     |                                             |                                        |
| Units: Subjects                         |                                     |                                             |                                        |
| Missing                                 | 0                                   | 1                                           | 0                                      |
| No                                      | 11                                  | 9                                           | 1                                      |
| Yes                                     | 3                                   | 2                                           | 0                                      |
| Antipsychotics                          |                                     |                                             |                                        |
| Units: Subjects                         |                                     |                                             |                                        |
| FGA only                                | 3                                   | 2                                           | 0                                      |
| SGA only                                | 10                                  | 9                                           | 1                                      |
| Both                                    | 1                                   | 1                                           | 0                                      |
| Calgary Depression Scale                |                                     |                                             |                                        |
| Units: Subjects                         |                                     |                                             |                                        |
| < 6                                     | 10                                  | 8                                           | 0                                      |
| >=6                                     | 4                                   | 4                                           | 1                                      |
| Global Clinical Assessment of Akathisia |                                     |                                             |                                        |
| Units: Subjects                         |                                     |                                             |                                        |
| Absent                                  | 7                                   | 1                                           | 1                                      |
| Questionable                            | 3                                   | 9                                           | 0                                      |
| Mild Akathisia                          | 3                                   | 2                                           | 0                                      |
| Moderate Akathisia                      | 0                                   | 0                                           | 0                                      |
| Marked Akathisia                        | 1                                   | 0                                           | 0                                      |
| Severe Akathisia                        | 0                                   | 0                                           | 0                                      |
| PANSS Score                             |                                     |                                             |                                        |
| Units: point                            |                                     |                                             |                                        |
| arithmetic mean                         | 83.5                                | 76.9                                        | 69                                     |
| standard deviation                      | ± 16.5                              | ± 9.2                                       | ± 0                                    |
| Barnes Akathisia Scale                  |                                     |                                             |                                        |
| Units: Point                            |                                     |                                             |                                        |
| arithmetic mean                         | 1.4                                 | 2.2                                         | 0                                      |
| standard deviation                      | ± 1.9                               | ± 1.3                                       | ± 0                                    |
| Simpson-Angus Extrapyramidal Scale      |                                     |                                             |                                        |
| Units: point                            |                                     |                                             |                                        |
| arithmetic mean                         | 4.6                                 | 3.2                                         | 0                                      |
| standard deviation                      | ± 1.3                               | ± 1.7                                       | ± 0                                    |
| <b>Reporting group values</b>           | Mirtazapine Placebo<br>+ Folic Acid | Mirtazapine Placebo<br>+ Folic Acid placebo | Mirtazapine Placebo<br>+ No Folic Acid |
| Number of subjects                      | 12                                  | 13                                          | 1                                      |

|                                                       |        |       |      |
|-------------------------------------------------------|--------|-------|------|
| Age categorical<br>Units: Subjects                    |        |       |      |
| In utero                                              | 0      | 0     | 0    |
| Preterm newborn infants<br>(gestational age < 37 wks) | 0      | 0     | 0    |
| Newborns (0-27 days)                                  | 0      | 0     | 0    |
| Infants and toddlers (28 days-23 months)              | 0      | 0     | 0    |
| Children (2-11 years)                                 | 0      | 0     | 0    |
| Adolescents (12-17 years)                             | 0      | 0     | 0    |
| Adults (18-64 years)                                  | 12     | 13    | 1    |
| From 65-84 years                                      | 0      | 0     | 0    |
| 85 years and over                                     | 0      | 0     | 0    |
| Age continuous<br>Units: years                        |        |       |      |
| arithmetic mean                                       | 42.4   | 44.4  | 42.2 |
| standard deviation                                    | ± 11.7 | ± 8.7 | ± 0  |
| Gender categorical<br>Units: Subjects                 |        |       |      |
| Female                                                | 4      | 2     | 1    |
| Male                                                  | 8      | 11    | 0    |
| PANSS negative score<br>Units: Subjects               |        |       |      |
| 0-2                                                   | 8      | 5     | 0    |
| 3-7                                                   | 4      | 8     | 1    |
| PANSS Score<br>Units: Subjects                        |        |       |      |
| < 75                                                  | 5      | 6     | 0    |
| >=75                                                  | 7      | 7     | 1    |
| Duration of illness<br>Units: Subjects                |        |       |      |
| < 1 year                                              | 0      | 0     | 0    |
| 1-5 years                                             | 2      | 3     | 0    |
| >=5 years                                             | 10     | 10    | 1    |
| Benzodiazepines<br>Units: Subjects                    |        |       |      |
| Not prescribed/not taken                              | 9      | 9     | 1    |
| Prescribed/taken                                      | 3      | 4     | 0    |
| Mood stabilisers<br>Units: Subjects                   |        |       |      |
| Missing                                               | 0      | 1     | 0    |
| No                                                    | 12     | 12    | 1    |
| Yes                                                   | 0      | 0     | 0    |
| Antipsychotics<br>Units: Subjects                     |        |       |      |
| FGA only                                              | 2      | 2     | 0    |
| SGA only                                              | 6      | 8     | 1    |
| Both                                                  | 4      | 3     | 0    |
| Calgary Depression Scale<br>Units: Subjects           |        |       |      |
| < 6                                                   | 8      | 11    | 0    |
| >=6                                                   | 4      | 2     | 1    |

|                                                            |        |       |     |
|------------------------------------------------------------|--------|-------|-----|
| Global Clinical Assessment of Akathisia<br>Units: Subjects |        |       |     |
| Absent                                                     | 5      | 8     | 1   |
| Questionable                                               | 3      | 1     | 0   |
| Mild Akathisia                                             | 4      | 2     | 0   |
| Moderate Akathisia                                         | 0      | 1     | 0   |
| Marked Akathisia                                           | 0      | 1     | 0   |
| Severe Akathisia                                           | 0      | 0     | 0   |
| PANSS Score<br>Units: point                                |        |       |     |
| arithmetic mean                                            | 76.5   | 84.2  | 85  |
| standard deviation                                         | ± 10.2 | ± 23  | ± 0 |
| Barnes Akathisia Scale<br>Units: Point                     |        |       |     |
| arithmetic mean                                            | 1.4    | 2.2   | 1   |
| standard deviation                                         | ± 1.7  | ± 1.3 | ± 0 |
| Simpson-Angus Extrapyramidal Scale<br>Units: point         |        |       |     |
| arithmetic mean                                            | 4.2    | 1.7   | 1   |
| standard deviation                                         | ± 1.3  | ± 1.7 | ± 0 |

|                                                       |       |  |  |
|-------------------------------------------------------|-------|--|--|
| <b>Reporting group values</b>                         | Total |  |  |
| Number of subjects                                    | 53    |  |  |
| Age categorical<br>Units: Subjects                    |       |  |  |
| In utero                                              | 0     |  |  |
| Preterm newborn infants<br>(gestational age < 37 wks) | 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)                                  | 52    |  |  |
| From 65-84 years                                      | 1     |  |  |
| 85 years and over                                     | 0     |  |  |
| Age continuous<br>Units: years                        |       |  |  |
| arithmetic mean                                       | -     |  |  |
| standard deviation                                    | -     |  |  |
| Gender categorical<br>Units: Subjects                 |       |  |  |
| Female                                                | 13    |  |  |
| Male                                                  | 40    |  |  |
| PANSS negative score<br>Units: Subjects               |       |  |  |
| 0-2                                                   | 27    |  |  |
| 3-7                                                   | 26    |  |  |
| PANSS Score<br>Units: Subjects                        |       |  |  |
| < 75                                                  | 22    |  |  |
| >=75                                                  | 31    |  |  |

|                                                                                              |    |  |  |
|----------------------------------------------------------------------------------------------|----|--|--|
| Duration of illness<br>Units: Subjects                                                       |    |  |  |
| < 1 year                                                                                     | 0  |  |  |
| 1-5 years                                                                                    | 7  |  |  |
| >=5 years                                                                                    | 46 |  |  |
| Benzodiazepines<br>Units: Subjects                                                           |    |  |  |
| Not prescribed/not taken                                                                     | 41 |  |  |
| Prescribed/taken                                                                             | 12 |  |  |
| Mood stabilisers<br>Units: Subjects                                                          |    |  |  |
| Missing                                                                                      | 2  |  |  |
| No                                                                                           | 46 |  |  |
| Yes                                                                                          | 5  |  |  |
| Antipsychotics<br>Units: Subjects                                                            |    |  |  |
| FGA only                                                                                     | 9  |  |  |
| SGA only                                                                                     | 35 |  |  |
| Both                                                                                         | 9  |  |  |
| Calgary Depression Scale<br>Units: Subjects                                                  |    |  |  |
| < 6                                                                                          | 37 |  |  |
| >=6                                                                                          | 16 |  |  |
| Global Clinical Assessment of Akathisia<br>Units: Subjects                                   |    |  |  |
| Absent                                                                                       | 23 |  |  |
| Questionable                                                                                 | 16 |  |  |
| Mild Akathisia                                                                               | 11 |  |  |
| Moderate Akathisia                                                                           | 1  |  |  |
| Marked Akathisia                                                                             | 2  |  |  |
| Severe Akathisia                                                                             | 0  |  |  |
| PANSS Score<br>Units: point<br>arithmetic mean<br>standard deviation                         | -  |  |  |
| Barnes Akathisia Scale<br>Units: Point<br>arithmetic mean<br>standard deviation              | -  |  |  |
| Simpson-Angus Extrapyrarnidal Scale<br>Units: point<br>arithmetic mean<br>standard deviation | -  |  |  |

## End points

### End points reporting groups

|                                          |                                          |
|------------------------------------------|------------------------------------------|
| Reporting group title                    | Mirtazapine + Folic Acid                 |
| Reporting group description:             |                                          |
| Mirtazapine + Folic Acid                 |                                          |
| Reporting group title                    | Mirtazapine + Folic Acid placebo         |
| Reporting group description:             |                                          |
| Mirtazapine + Folic Acid Placebo         |                                          |
| Reporting group title                    | Mirtazapine + No Folic Acid              |
| Reporting group description:             |                                          |
| Mirtazapine + No Folic Acid              |                                          |
| Reporting group title                    | Mirtazapine Placebo + Folic Acid         |
| Reporting group description:             |                                          |
| Mirtazapine Placebo + Folic Acid         |                                          |
| Reporting group title                    | Mirtazapine Placebo + Folic Acid placebo |
| Reporting group description:             |                                          |
| Mirtazapine Placebo + Folic Acid placebo |                                          |
| Reporting group title                    | Mirtazapine Placebo + No Folic Acid      |
| Reporting group description:             |                                          |
| Mirtazapine Placebo + No Folic Acid      |                                          |
| Reporting group title                    | Mirtazapine + Folic Acid                 |
| Reporting group description:             |                                          |
| Mirtazapine Placebo + Folic Acid         |                                          |
| Reporting group title                    | Mirtazapine + Folic Acid placebo         |
| Reporting group description:             |                                          |
| Mirtazapine Placebo + Folic Acid Placebo |                                          |
| Reporting group title                    | Mirtazapine + No Folic Acid              |
| Reporting group description:             |                                          |
| Mirtazapine + No Folic Acid              |                                          |
| Reporting group title                    | Mirtazapine Placebo + Folic Acid         |
| Reporting group description:             |                                          |
| Mirtazapine Placebo + Folic Acid         |                                          |
| Reporting group title                    | Mirtazapine Placebo + Folic Acid Placebo |
| Reporting group description:             |                                          |
| Mirtazapine Placebo + Folic Acid Placebo |                                          |
| Reporting group title                    | Mirtazapine Placebo + No Folic Acid      |
| Reporting group description:             |                                          |
| Mirtazapine Placebo + No Folic Acid      |                                          |
| Reporting group title                    | Mirtazapine + Folic Acid                 |
| Reporting group description:             |                                          |
| Mirtazapine + Folic Acid                 |                                          |
| Reporting group title                    | Mirtazapine + Folic Acid placebo         |
| Reporting group description:             |                                          |
| Mirtazapine + Folic Acid placebo         |                                          |
| Reporting group title                    | Mirtazapine + No Folic Acid              |
| Reporting group description:             |                                          |
| Mirtazapine + No Folic Acid              |                                          |
| Reporting group title                    | Mirtazapine Placebo + Folic Acid         |

Reporting group description:

Mirtazapine Placebo + Folic Acid

|                       |                                  |
|-----------------------|----------------------------------|
| Reporting group title | Mirtazapine Placebo + Folic Acid |
|-----------------------|----------------------------------|

Reporting group description:

Mirtazapine Placebo + Folic Acid

|                       |                                     |
|-----------------------|-------------------------------------|
| Reporting group title | Mirtazapine Placebo + No Folic Acid |
|-----------------------|-------------------------------------|

Reporting group description:

Mirtazapine Placebo + No Folic Acid

|                       |                          |
|-----------------------|--------------------------|
| Reporting group title | Mirtazapine + Folic Acid |
|-----------------------|--------------------------|

Reporting group description:

Mirtazapine + Folic Acid

|                       |                                  |
|-----------------------|----------------------------------|
| Reporting group title | Mirtazapine + Folic Acid Placebo |
|-----------------------|----------------------------------|

Reporting group description:

Mirtazapine Placebo + Folic Acid Placebo

|                       |                             |
|-----------------------|-----------------------------|
| Reporting group title | Mirtazapine + No Folic Acid |
|-----------------------|-----------------------------|

Reporting group description:

Mirtazapine Placebo + No Folic Acid

|                       |                                  |
|-----------------------|----------------------------------|
| Reporting group title | Mirtazapine Placebo + Folic Acid |
|-----------------------|----------------------------------|

Reporting group description:

Mirtazapine Placebo + Folic Acid

|                       |                                          |
|-----------------------|------------------------------------------|
| Reporting group title | Mirtazapine Placebo + Folic Acid Placebo |
|-----------------------|------------------------------------------|

Reporting group description:

Mirtazapine Placebo + Folic Acid Placebo

|                       |                                     |
|-----------------------|-------------------------------------|
| Reporting group title | Mirtazapine Placebo + No Folic Acid |
|-----------------------|-------------------------------------|

Reporting group description:

Mirtazapine Placebo + No Folic Acid

## Primary: PANSS score

|                 |                            |
|-----------------|----------------------------|
| End point title | PANSS score <sup>[1]</sup> |
|-----------------|----------------------------|

End point description:

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

End point timeframe:

12 weeks

Notes:

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

Justification: Trial terminated early and sample size too small to make any interference. Descriptive statistics were presented as per SAP

| End point values                     | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid Placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|--------------------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type                   | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed          | 13                       | 9                                | 1                           | 10                               |
| Units: point                         |                          |                                  |                             |                                  |
| arithmetic mean (standard deviation) | 75.2 (± 22.9)            | 61.9 (± 11.6)                    | 47 (± 0)                    | 69.8 (± 9)                       |



| End point values                     | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid |  |  |
|--------------------------------------|------------------------------------------|-------------------------------------|--|--|
| Subject group type                   | Reporting group                          | Reporting group                     |  |  |
| Number of subjects analysed          | 11                                       | 0 <sup>[2]</sup>                    |  |  |
| Units: point                         |                                          |                                     |  |  |
| arithmetic mean (standard deviation) | 73.6 (± 22.9)                            | ( )                                 |  |  |

Notes:

[2] - Participant dropped out at 12 weeks

### Statistical analyses

No statistical analyses for this end point

### Secondary: Negative PANSS score

|                 |                      |
|-----------------|----------------------|
| End point title | Negative PANSS score |
|-----------------|----------------------|

End point description:

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

End point timeframe:

12 weeks

| End point values                     | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid Placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|--------------------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type                   | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed          | 13                       | 9                                | 1                           | 10                               |
| Units: point                         |                          |                                  |                             |                                  |
| arithmetic mean (standard deviation) | 22.9 (± 8.9)             | 17.6 (± 5.7)                     | 9 (± 0)                     | 19.6 (± 5.2)                     |

| End point values                     | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid |  |  |
|--------------------------------------|------------------------------------------|-------------------------------------|--|--|
| Subject group type                   | Reporting group                          | Reporting group                     |  |  |
| Number of subjects analysed          | 11                                       | 0 <sup>[3]</sup>                    |  |  |
| Units: point                         |                                          |                                     |  |  |
| arithmetic mean (standard deviation) | 21.4 (± 6.9)                             | ( )                                 |  |  |

Notes:

[3] - Participant dropped out at 12 weeks

### Statistical analyses

No statistical analyses for this end point

### Secondary: Calgary Depression Scale

|                        |                          |
|------------------------|--------------------------|
| End point title        | Calgary Depression Scale |
| End point description: |                          |
| End point type         | Secondary                |
| End point timeframe:   |                          |
| 12 weeks               |                          |

| End point values                     | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid Placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|--------------------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type                   | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed          | 13                       | 9                                | 1                           | 10                               |
| Units: point                         |                          |                                  |                             |                                  |
| arithmetic mean (standard deviation) | 1.8 (± 2.1)              | 2.1 (± 3.5)                      | 5 (± 0)                     | 5 (± 4.5)                        |

| End point values                     | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid |  |  |
|--------------------------------------|------------------------------------------|-------------------------------------|--|--|
| Subject group type                   | Reporting group                          | Reporting group                     |  |  |
| Number of subjects analysed          | 11                                       | 0 <sup>[4]</sup>                    |  |  |
| Units: point                         |                                          |                                     |  |  |
| arithmetic mean (standard deviation) | 2.2 (± 2.5)                              | ( )                                 |  |  |

Notes:

[4] - Participant dropped out at 12 weeks

## Statistical analyses

No statistical analyses for this end point

## Secondary: Clinical Global Severity Scale

|                                |                                |
|--------------------------------|--------------------------------|
| End point title                | Clinical Global Severity Scale |
| End point description:         |                                |
| End point type                 | Secondary                      |
| End point timeframe:           |                                |
| collected at 4, 8 and 12 weeks |                                |

| End point values                     | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|--------------------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type                   | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed          | 12                       | 10                               | 1                           | 10                               |
| Units: point                         |                          |                                  |                             |                                  |
| arithmetic mean (standard deviation) | 3.2 (± 1.3)              | 3.2 (± 0.8)                      | 1 (± 0)                     | 3.3 (± 0.8)                      |

| End point values                     | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo |
|--------------------------------------|------------------------------------------|-------------------------------------|--------------------------|----------------------------------|
| Subject group type                   | Reporting group                          | Reporting group                     | Reporting group          | Reporting group                  |
| Number of subjects analysed          | 12                                       | 1                                   | 12                       | 10                               |
| Units: point                         |                                          |                                     |                          |                                  |
| arithmetic mean (standard deviation) | 3.3 (± 1.4)                              | 4 (± 0)                             | 3.4 (± 1.2)              | 3.2 (± 0.8)                      |

| End point values                     | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + No Folic Acid |
|--------------------------------------|-----------------------------|----------------------------------|----------------------------------|-------------------------------------|
| Subject group type                   | Reporting group             | Reporting group                  | Reporting group                  | Reporting group                     |
| Number of subjects analysed          | 1                           | 10                               | 12                               | 1                                   |
| Units: point                         |                             |                                  |                                  |                                     |
| arithmetic mean (standard deviation) | 1 (± 0)                     | 3.3 (± 0.8)                      | 3.3 (± 1.4)                      | 4 (± 0)                             |

| End point values                     | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid Placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|--------------------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type                   | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed          | 13                       | 9                                | 1                           | 10                               |
| Units: point                         |                          |                                  |                             |                                  |
| arithmetic mean (standard deviation) | 3.4 (± 1)                | 2.8 (± 0.8)                      | 1 (± 0)                     | 3.1 (± 1.1)                      |

| End point values                     | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid |  |  |
|--------------------------------------|------------------------------------------|-------------------------------------|--|--|
| Subject group type                   | Reporting group                          | Reporting group                     |  |  |
| Number of subjects analysed          | 11                                       | 0 <sup>[5]</sup>                    |  |  |
| Units: point                         |                                          |                                     |  |  |
| arithmetic mean (standard deviation) | 3.1 (± 1.3)                              | ( )                                 |  |  |

Notes:

[5] - Participant dropped out at 12 weeks

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change in Barnes Akathisia Scale from baseline

|                 |                                                |
|-----------------|------------------------------------------------|
| End point title | Change in Barnes Akathisia Scale from baseline |
|-----------------|------------------------------------------------|

End point description:

|                            |           |
|----------------------------|-----------|
| End point type             | Secondary |
| End point timeframe:       |           |
| Measured at 4, 8, 12 weeks |           |

| End point values                     | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|--------------------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type                   | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed          | 12                       | 10                               | 1                           | 10                               |
| Units: point                         |                          |                                  |                             |                                  |
| arithmetic mean (standard deviation) | -1 (± 1.9)               | -1.3 (± 1.4)                     | 0 (± 0)                     | -0.6 (± 0.8)                     |

| End point values                     | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo |
|--------------------------------------|------------------------------------------|-------------------------------------|--------------------------|----------------------------------|
| Subject group type                   | Reporting group                          | Reporting group                     | Reporting group          | Reporting group                  |
| Number of subjects analysed          | 12                                       | 1                                   | 12                       | 10                               |
| Units: point                         |                                          |                                     |                          |                                  |
| arithmetic mean (standard deviation) | -0.5 (± 0.8)                             | -1 (± 0)                            | -1.3 (± 2.1)             | -1.1 (± 1.4)                     |

| End point values                     | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + No Folic Acid |
|--------------------------------------|-----------------------------|----------------------------------|----------------------------------|-------------------------------------|
| Subject group type                   | Reporting group             | Reporting group                  | Reporting group                  | Reporting group                     |
| Number of subjects analysed          | 1                           | 10                               | 12                               | 1                                   |
| Units: point                         |                             |                                  |                                  |                                     |
| arithmetic mean (standard deviation) | 0 (± 0)                     | -0.6 (± 2)                       | -0.8 (± 1.1)                     | -1 (± 0)                            |

| End point values                     | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid Placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|--------------------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type                   | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed          | 13                       | 9                                | 1                           | 10                               |
| Units: point                         |                          |                                  |                             |                                  |
| arithmetic mean (standard deviation) | -1 (± 1.8)               | -1.2 (± 1.1)                     | 0 (± 0)                     | -0.3 (± 1.7)                     |

| End point values | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid |  |  |
|------------------|------------------------------------------|-------------------------------------|--|--|
|------------------|------------------------------------------|-------------------------------------|--|--|

|                                      |                 |                  |  |  |
|--------------------------------------|-----------------|------------------|--|--|
| Subject group type                   | Reporting group | Reporting group  |  |  |
| Number of subjects analysed          | 11              | 0 <sup>[6]</sup> |  |  |
| Units: point                         |                 |                  |  |  |
| arithmetic mean (standard deviation) | -0.9 (± 1.4)    | ( )              |  |  |

Notes:

[6] - Participants dropped out at 12 weeks

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change in Global clinical Assessment of Akathisia from baseline

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| End point title | Change in Global clinical Assessment of Akathisia from baseline |
|-----------------|-----------------------------------------------------------------|

End point description:

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

End point timeframe:

Measured at 4, 8 and 12 weeks

| End point values                     | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|--------------------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type                   | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed          | 12                       | 10                               | 1                           | 10                               |
| Units: point                         |                          |                                  |                             |                                  |
| arithmetic mean (standard deviation) | -0.6 (± 1.3)             | -0.5 (± 0.8)                     | 0 (± 0)                     | -0.2 (± 0.4)                     |

| End point values                     | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo |
|--------------------------------------|------------------------------------------|-------------------------------------|--------------------------|----------------------------------|
| Subject group type                   | Reporting group                          | Reporting group                     | Reporting group          | Reporting group                  |
| Number of subjects analysed          | 12                                       | 1                                   | 12                       | 10                               |
| Units: point                         |                                          |                                     |                          |                                  |
| arithmetic mean (standard deviation) | -0.3 (± 0.6)                             | 0 (± 0)                             | -0.8 (± 1.3)             | -0.5 (± 0.8)                     |

| End point values                     | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + No Folic Acid |
|--------------------------------------|-----------------------------|----------------------------------|----------------------------------|-------------------------------------|
| Subject group type                   | Reporting group             | Reporting group                  | Reporting group                  | Reporting group                     |
| Number of subjects analysed          | 1                           | 10                               | 12                               | 1                                   |
| Units: point                         |                             |                                  |                                  |                                     |
| arithmetic mean (standard deviation) | 0 (± 0)                     | -0.3 (± 0.8)                     | -0.6 (± 0.8)                     | 0 (± 0)                             |

| End point values                     | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid Placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|--------------------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type                   | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed          | 13                       | 9                                | 1                           | 10                               |
| Units: point                         |                          |                                  |                             |                                  |
| arithmetic mean (standard deviation) | -0.7 (± 1.3)             | -0.4 (± 0.9)                     | 0 (± 0)                     | -0.1 (± 0.7)                     |

| End point values                     | Mirtazapine Placebo + Folic Acid Placebo | Mirtazapine Placebo + No Folic Acid |  |  |
|--------------------------------------|------------------------------------------|-------------------------------------|--|--|
| Subject group type                   | Reporting group                          | Reporting group                     |  |  |
| Number of subjects analysed          | 11                                       | 0 <sup>[7]</sup>                    |  |  |
| Units: point                         |                                          |                                     |  |  |
| arithmetic mean (standard deviation) | -0.5 (± 0.8)                             | ( )                                 |  |  |

Notes:

[7] - Participant dropped out at 12 weeks

### Statistical analyses

No statistical analyses for this end point

### Secondary: Adherence to Mirtazapine

|                 |                          |
|-----------------|--------------------------|
| End point title | Adherence to Mirtazapine |
|-----------------|--------------------------|

End point description:

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

End point timeframe:

at 4, 8, 12 weeks

| End point values            | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|-----------------------------|--------------------------|----------------------------------|-----------------------------|----------------------------------|
| Subject group type          | Reporting group          | Reporting group                  | Reporting group             | Reporting group                  |
| Number of subjects analysed | 13                       | 10                               | 1                           | 10                               |
| Units: subject              |                          |                                  |                             |                                  |
| Missing                     | 1                        | 0                                | 0                           | 0                                |
| Discontinued                | 1                        | 1                                | 0                           | 0                                |
| <= 50%                      | 0                        | 0                                | 0                           | 0                                |
| 51-70%                      | 1                        | 0                                | 0                           | 0                                |
| 70-90%                      | 1                        | 0                                | 0                           | 0                                |
| >=91%                       | 0                        | 9                                | 1                           | 10                               |

| End point values            | Mirtazapine<br>Placebo + Folic<br>Acid Placebo | Mirtazapine<br>Placebo + No<br>Folic Acid | Mirtazapine +<br>Folic Acid | Mirtazapine +<br>Folic Acid<br>placebo |
|-----------------------------|------------------------------------------------|-------------------------------------------|-----------------------------|----------------------------------------|
| Subject group type          | Reporting group                                | Reporting group                           | Reporting group             | Reporting group                        |
| Number of subjects analysed | 12                                             | 1                                         | 13                          | 10                                     |
| Units: subject              |                                                |                                           |                             |                                        |
| Missing                     | 0                                              | 0                                         | 1                           | 0                                      |
| Discontinued                | 1                                              | 0                                         | 2                           | 1                                      |
| <= 50%                      | 0                                              | 0                                         | 0                           | 0                                      |
| 51-70%                      | 0                                              | 0                                         | 0                           | 0                                      |
| 70-90%                      | 0                                              | 0                                         | 1                           | 0                                      |
| >=91%                       | 11                                             | 1                                         | 9                           | 9                                      |

| End point values            | Mirtazapine +<br>No Folic Acid | Mirtazapine<br>Placebo + Folic<br>Acid | Mirtazapine<br>Placebo +<br>Folic Acid | Mirtazapine<br>Placebo + No<br>Folic Acid |
|-----------------------------|--------------------------------|----------------------------------------|----------------------------------------|-------------------------------------------|
| Subject group type          | Reporting group                | Reporting group                        | Reporting group                        | Reporting group                           |
| Number of subjects analysed | 1                              | 10                                     | 12                                     | 1                                         |
| Units: subject              |                                |                                        |                                        |                                           |
| Missing                     | 0                              | 0                                      | 0                                      | 0                                         |
| Discontinued                | 0                              | 3                                      | 3                                      | 1                                         |
| <= 50%                      | 0                              | 0                                      | 0                                      | 0                                         |
| 51-70%                      | 0                              | 0                                      | 0                                      | 0                                         |
| 70-90%                      | 0                              | 0                                      | 1                                      | 0                                         |
| >=91%                       | 1                              | 7                                      | 8                                      | 0                                         |

| End point values            | Mirtazapine +<br>Folic Acid | Mirtazapine +<br>Folic Acid<br>Placebo | Mirtazapine +<br>No Folic Acid | Mirtazapine<br>Placebo + Folic<br>Acid |
|-----------------------------|-----------------------------|----------------------------------------|--------------------------------|----------------------------------------|
| Subject group type          | Reporting group             | Reporting group                        | Reporting group                | Reporting group                        |
| Number of subjects analysed | 13                          | 9                                      | 1                              | 10                                     |
| Units: subject              |                             |                                        |                                |                                        |
| Missing                     | 0                           | 0                                      | 0                              | 0                                      |
| Discontinued                | 4                           | 0                                      | 0                              | 3                                      |
| <= 50%                      | 0                           | 0                                      | 0                              | 0                                      |
| 51-70%                      | 0                           | 0                                      | 0                              | 0                                      |
| 70-90%                      | 1                           | 1                                      | 0                              | 1                                      |
| >=91%                       | 8                           | 8                                      | 1                              | 6                                      |

| End point values | Mirtazapine<br>Placebo +<br>Folic Acid<br>Placebo | Mirtazapine<br>Placebo + No<br>Folic Acid |  |  |
|------------------|---------------------------------------------------|-------------------------------------------|--|--|
|------------------|---------------------------------------------------|-------------------------------------------|--|--|

|                             |                 |                  |  |  |
|-----------------------------|-----------------|------------------|--|--|
| Subject group type          | Reporting group | Reporting group  |  |  |
| Number of subjects analysed | 11              | 0 <sup>[8]</sup> |  |  |
| Units: subject              |                 |                  |  |  |
| Missing                     | 0               |                  |  |  |
| Discontinued                | 2               |                  |  |  |
| <= 50%                      | 0               |                  |  |  |
| 51-70%                      | 0               |                  |  |  |
| 70-90%                      | 1               |                  |  |  |
| >=91%                       | 8               |                  |  |  |

Notes:

[8] - Participant dropped out

## Statistical analyses

No statistical analyses for this end point

## Secondary: Adherence to Folate Acid

|                 |                          |
|-----------------|--------------------------|
| End point title | Adherence to Folate Acid |
|-----------------|--------------------------|

End point description:

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

End point timeframe:

at 4, 8, 12 weeks

| End point values            | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + Folic Acid Placebo |
|-----------------------------|--------------------------|----------------------------------|----------------------------------|------------------------------------------|
| Subject group type          | Reporting group          | Reporting group                  | Reporting group                  | Reporting group                          |
| Number of subjects analysed | 13                       | 10                               | 10                               | 12                                       |
| Units: Subject              |                          |                                  |                                  |                                          |
| Missing                     | 1                        | 1                                | 0                                | 0                                        |
| Discontinued                | 1                        | 0                                | 0                                | 0                                        |
| <=50%                       | 1                        | 0                                | 0                                | 0                                        |
| 51-70%                      | 0                        | 0                                | 0                                | 0                                        |
| 71-90%                      | 1                        | 9                                | 0                                | 0                                        |
| >=91%                       | 9                        | 0                                | 10                               | 12                                       |

| End point values            | Mirtazapine + Folic Acid | Mirtazapine + Folic Acid placebo | Mirtazapine Placebo + Folic Acid | Mirtazapine Placebo + Folic Acid |
|-----------------------------|--------------------------|----------------------------------|----------------------------------|----------------------------------|
| Subject group type          | Reporting group          | Reporting group                  | Reporting group                  | Reporting group                  |
| Number of subjects analysed | 13                       | 10                               | 10                               | 12                               |
| Units: Subject              |                          |                                  |                                  |                                  |
| Missing                     | 1                        | 0                                | 0                                | 0                                |
| Discontinued                | 2                        | 1                                | 3                                | 2                                |
| <=50%                       | 0                        | 0                                | 0                                | 0                                |
| 51-70%                      | 0                        | 0                                | 0                                | 0                                |



|        |   |   |   |   |
|--------|---|---|---|---|
| 71-90% | 1 | 0 | 0 | 1 |
| >=91%  | 9 | 9 | 7 | 9 |

| <b>End point values</b>     | Mirtazapine +<br>Folic Acid | Mirtazapine +<br>Folic Acid<br>Placebo | Mirtazapine<br>Placebo + Folic<br>Acid | Mirtazapine<br>Placebo +<br>Folic Acid<br>Placebo |
|-----------------------------|-----------------------------|----------------------------------------|----------------------------------------|---------------------------------------------------|
| Subject group type          | Reporting group             | Reporting group                        | Reporting group                        | Reporting group                                   |
| Number of subjects analysed | 13                          | 9                                      | 10                                     | 11                                                |
| Units: Subject              |                             |                                        |                                        |                                                   |
| Missing                     | 0                           | 0                                      | 1                                      | 0                                                 |
| Discontinued                | 3                           | 1                                      | 3                                      | 1                                                 |
| <=50%                       | 1                           | 1                                      | 0                                      | 0                                                 |
| 51-70%                      | 0                           | 0                                      | 0                                      | 0                                                 |
| 71-90%                      | 1                           | 1                                      | 0                                      | 1                                                 |
| >=91%                       | 8                           | 7                                      | 6                                      | 9                                                 |

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information<sup>[1]</sup>

Timeframe for reporting adverse events:

+Investigators were required to report all suspected SAEs to the Chief Investigator within one working day of discovery. The event was assessed by the CI or delegate within one working day and SAE were immediately reporting to the DMC

Adverse event reporting additional description:

Investigators recorded SAEs and reportable AEs (those outwith the SmPC and/or leading to withdrawal) on trial forms. AEs were classified in terms of severity, causality and expectedness by both the investigator and the (CI or delegate). SAEs were reported to the DMC. Procedures were in place for reporting of SARs and SUSARs but none occurred.

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

### Dictionary used

|                    |        |
|--------------------|--------|
| Dictionary name    | MedDRA |
| Dictionary version | 15.0   |

### Reporting groups

|                                |                                     |
|--------------------------------|-------------------------------------|
| Reporting group title          | Mirtazapine + Folic Acid            |
| Reporting group description: - |                                     |
| Reporting group title          | Mirtazapine Placebo + No Folic Acid |
| Reporting group description: - |                                     |
| Reporting group title          | Mirtazapine Placebo + Folic Acid    |
| Reporting group description: - |                                     |

Notes:

[1] - There are no non-serious adverse events recorded for these results. It is expected that there will be at least one non-serious adverse event reported.

Justification: No adverse events only SAE.

| Serious adverse events                            | Mirtazapine + Folic Acid                      | Mirtazapine Placebo + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|---------------------------------------------------|-----------------------------------------------|-------------------------------------|----------------------------------|
| Total subjects affected by serious adverse events |                                               |                                     |                                  |
| subjects affected / exposed                       | 1 / 14 (7.14%)                                | 1 / 1 (100.00%)                     | 1 / 12 (8.33%)                   |
| number of deaths (all causes)                     | 0                                             | 0                                   | 0                                |
| number of deaths resulting from adverse events    |                                               |                                     | 0                                |
| Psychiatric disorders                             |                                               |                                     |                                  |
| Psychotic state                                   | Additional description: Admission to hospital |                                     |                                  |
| subjects affected / exposed                       | 0 / 14 (0.00%)                                | 1 / 1 (100.00%)                     | 0 / 12 (0.00%)                   |
| occurrences causally related to treatment / all   | 0 / 0                                         | 0 / 1                               | 0 / 0                            |
| deaths causally related to treatment / all        | 0 / 0                                         | 0 / 0                               | 0 / 0                            |
| Self-inflicted laceration                         | Additional description: Admission to hospital |                                     |                                  |
| subjects affected / exposed                       | 0 / 14 (0.00%)                                | 1 / 1 (100.00%)                     | 0 / 12 (0.00%)                   |
| occurrences causally related to treatment / all   | 0 / 0                                         | 0 / 0                               | 0 / 0                            |
| deaths causally related to treatment / all        | 0 / 0                                         | 0 / 0                               | 0 / 0                            |
| Psychotic behaviour                               | Additional description: Admission to hospital |                                     |                                  |

|                                                 |                                               |               |                |
|-------------------------------------------------|-----------------------------------------------|---------------|----------------|
| subjects affected / exposed                     | 1 / 14 (7.14%)                                | 0 / 1 (0.00%) | 0 / 12 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1                                         | 0 / 0         | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0                                         | 0 / 0         | 0 / 0          |
| Anxiety                                         | Additional description: Admission to hospital |               |                |
| subjects affected / exposed                     | 0 / 14 (0.00%)                                | 0 / 1 (0.00%) | 1 / 12 (8.33%) |
| occurrences causally related to treatment / all | 0 / 0                                         | 0 / 0         | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0                                         | 0 / 0         | 0 / 0          |

Frequency threshold for reporting non-serious adverse events: 4 %

| <b>Non-serious adverse events</b>                     | Mirtazapine + Folic Acid | Mirtazapine Placebo + No Folic Acid | Mirtazapine Placebo + Folic Acid |
|-------------------------------------------------------|--------------------------|-------------------------------------|----------------------------------|
| Total subjects affected by non-serious adverse events |                          |                                     |                                  |
| subjects affected / exposed                           | 0 / 14 (0.00%)           | 0 / 1 (0.00%)                       | 0 / 12 (0.00%)                   |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date             | Amendment                                                                                                                                                                                                  |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 05 April 2011    | Rating scales added at screening - Mini-International Neuropsychiatric Interview and AUDIT Alcohol Scale. Exclusion of patients with current mood episode. Change to minimisation variables and algorithm. |
| 05 December 2011 | Increase in minimum age for inclusion from 16 to 18 and option for researchers to provide trial medication in small quantities if there are concerns that the participant might take an overdose.          |
| 08 May 2012      | Extension of recruitment period for the trial to 31/07/2013 with last patient out around the end of November 2013 (exact date depending on length of run-in phase of last participant).                    |
| 13 March 2013    | Change of manufacturer of folic acid placebo and of packager for both placebo and active tablets                                                                                                           |

Notes:

### Interruptions (globally)

Were there any global interruptions to the trial? Yes

| Date              | Interruption                                                                                                                                                                                                                                                      | Restart date |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 05 September 2013 | Recruitment was stopped in July 2013 due to withdrawal of funding. Participants already in the trial were given the option to terminate early or to complete the trial as per protocol. The final participant to complete the trial did so on 5th September 2013. | -            |

Notes:

### Limitations and caveats

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

Due to the early termination of the trial only 53 participants entered the randomised phase and, of those, MMM did not complete the trial due to the forced termination.

Notes: