

Impact of Psilocybin on Motor Function in Healthy Participants: A Phase 1, Randomised, Triple-Blind, Dose-Finding Study

CNS Drugs

Online Resource 5: Post-Hoc Analysis

Authors

Dr Chiranth Bhagavan¹
Professor Olivia Carter²
Dr Glenn Nielsen³
Professor David Berlowitz^{4,5}
Ms Sara Issak^{5,6}
Associate Professor Sabine Braat^{7,8}
Dr Sophie Zaloumis^{7,8}
Mr Zachary Attard^{4,5}
Ms Gina Oliver¹
Ms Deanne Mayne⁹
Dr James Rucker^{10,11}
Dr Matthew Butler^{10,11}
Dr Orwa Dandash¹
Dr Alexander Bryson^{*12,13,14}
Professor Richard A. Kanaan^{*1}

*Contributed equally to the paper

Corresponding author:

Dr Chiranth Bhagavan
Email: cbhagavan@student.unimelb.edu.au
Address: Department of Psychiatry, University of Melbourne, Austin Health, 145 Studley Rd, Heidelberg VIC 3084, Australia

Affiliations:

- ¹ Department of Psychiatry, University of Melbourne, Austin Health, Heidelberg, VIC, Australia
- ² Melbourne School of Psychological Sciences, University of Melbourne, Parkville, VIC, Australia
- ³ Neurosciences, City St George's, University of London, London, United Kingdom
- ⁴ Institute for Breathing and Sleep, Austin Health, Heidelberg, VIC, Australia
- ⁵ Department of Physiotherapy, Melbourne School of Health Sciences, The University of Melbourne, Carlton, VIC, Australia
- ⁶ Department of Physiotherapy, Epworth Healthcare, Camberwell, VIC, Australia
- ⁷ Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health, The University of Melbourne, Melbourne, VIC, Australia
- ⁸ MISCH (Methods and Implementation Support for Clinical Health) Research Hub, Faculty of Medicine, Dentistry and Health Sciences, University of Melbourne, Melbourne, VIC, Australia
- ⁹ FND Hope International, Salmon, Idaho, United States
- ¹⁰ Department of Psychological Medicine, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom
- ¹¹ South London & Maudsley NHS Foundation Trust, Bethlem Royal Hospital, Beckenham, United Kingdom
- ¹² Florey Institute of Neuroscience & Mental Health, Parkville, VIC, Australia
- ¹³ Department of Neurology, Melbourne Health, Parkville, VIC, Australia
- ¹⁴ Department of Neurology, Eastern Health, Box Hill, VIC, Australia

Contents

Motor function	3
Combined de Morton Mobility Index and Functional Movement Exploration (% Maximum)	3
Action Research Arm Test	4
Box and Block (Original)	5
Box and Block (Modified)	6
Digit Symbol Substitution Test	7
Reaction Time Ruler Drop Test (Mean)	8
Ego-Dissolution Inventory	9
Ego-Dissolution Inventory (Mean)	9
Q1: Dissolution of self	10
Q2: Feeling one with the universe	11
Q3: Sense of union with others	12
Q4: Decrease in sense of self-importance	13
Q5: Disintegration of self or ego	14
Q6: Less absorbed with own issues/concerns	15
Q7: Loss of sense of ego	16
Q8: All notion of self and identity dissolved away	17
5-Dimensional Altered States of Consciousness	18
5-Dimensional Altered States of Consciousness (Mean)	18
Experience of Unity	19
Spiritual Experience	20
Blissful State	21
Insightfulness	22
Disembodiment	23
Impaired Control and Cognition	24
Anxiety	25
Complex Imagery	26
Elementary Imagery	27
Audio Visual Synesthesiae	28
Changed Meaning of Percepts	29

Motor function

Combined de Morton Mobility Index and Functional Movement Exploration (% Maximum)

“demmi_fnd_extension_total_perc”

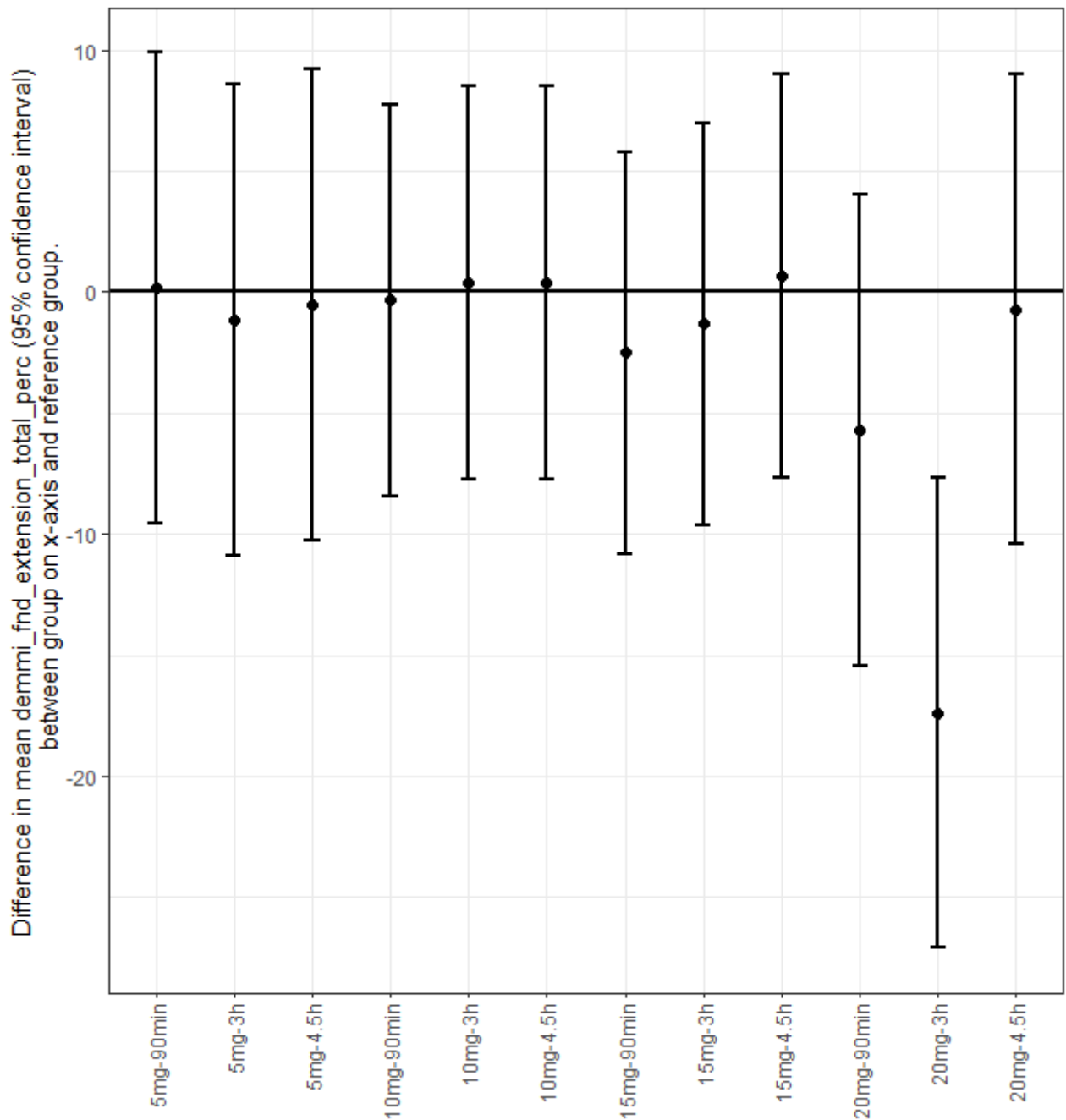


Figure S5.1: Caterpillar plot for demmi_fnd_extension_total_perc.

Action Research Arm Test

“arat_total”

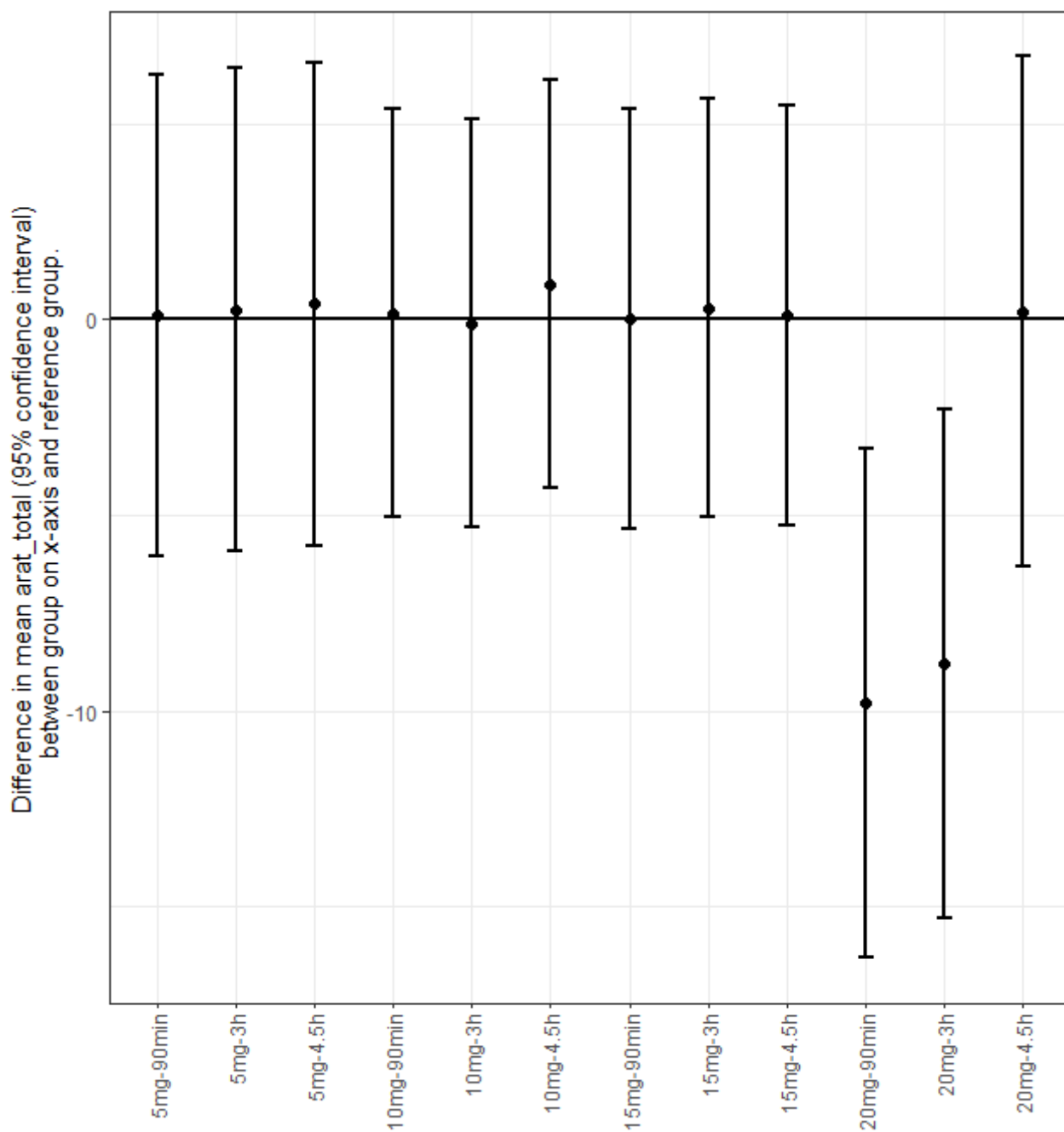
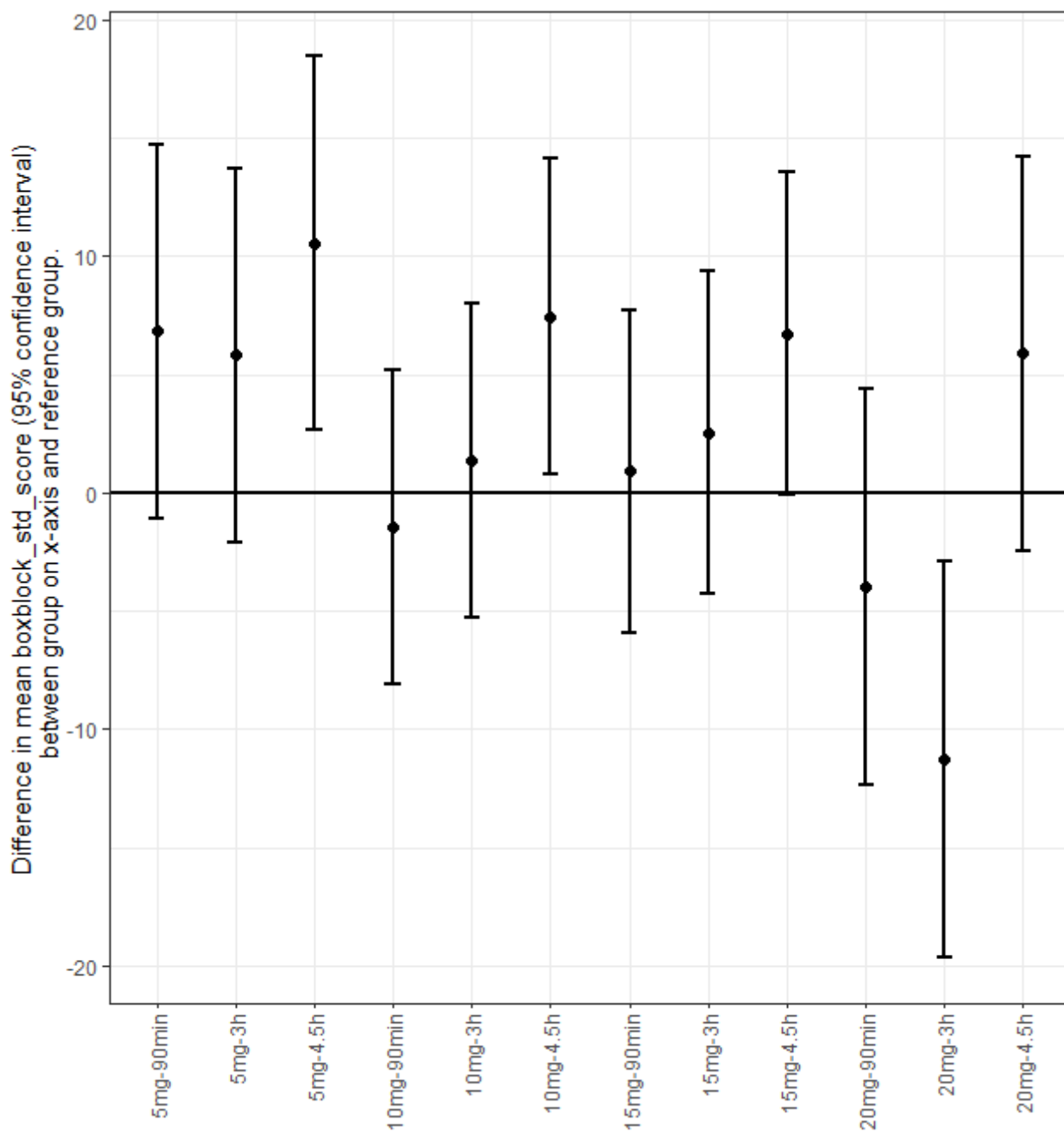


Figure S5.2: Caterpillar plot for arat_total.

Box and Block (Original)

"boxblock_std_score"



FigureS5.3: Caterpillar plot for boxblock_std_score.

Box and Block (Modified)

“boxblock_mod_score”

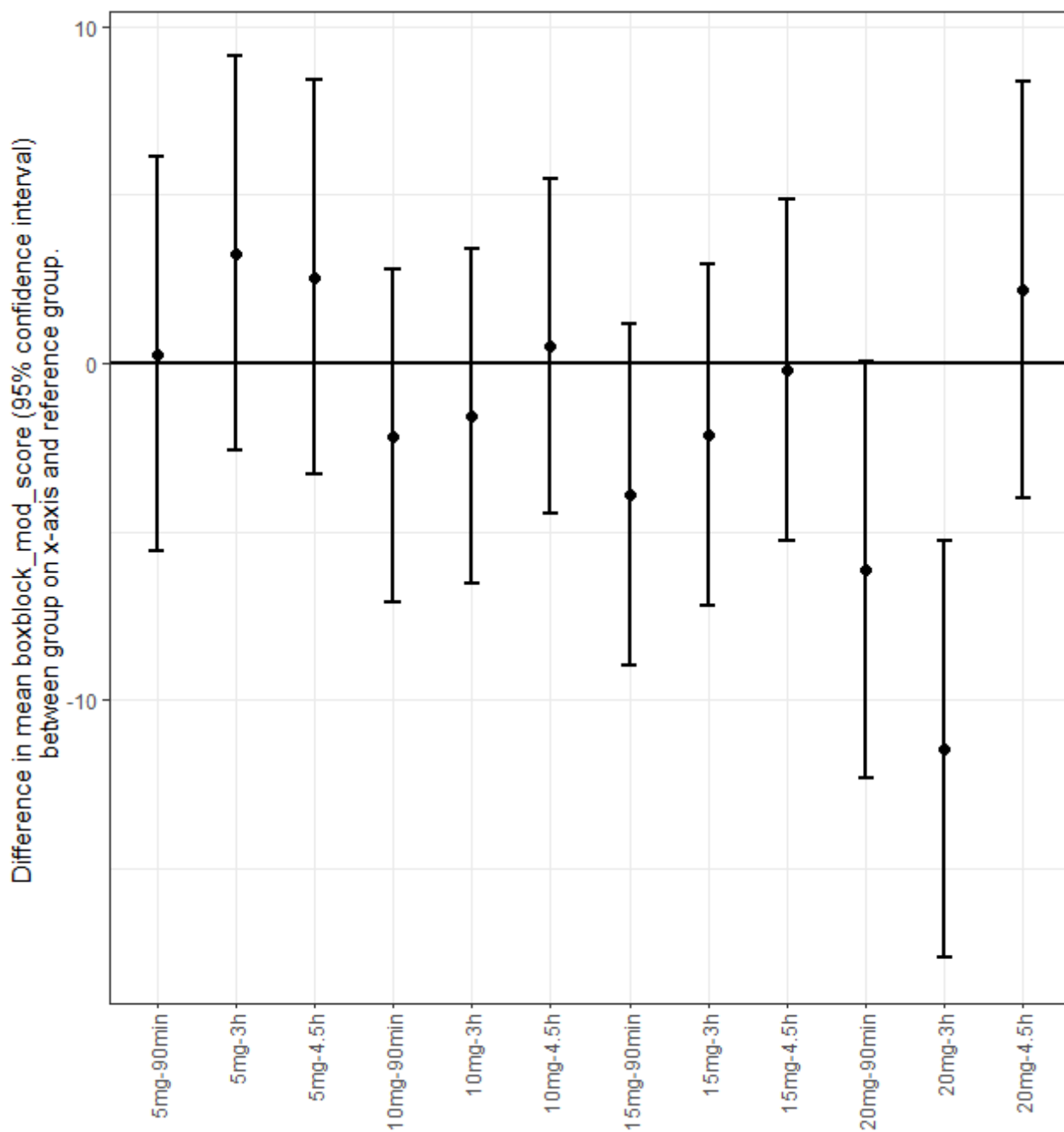


Figure S5.4: Caterpillar plot for boxblock_mod_score.

Digit Symbol Substitution Test

“dsst_score”

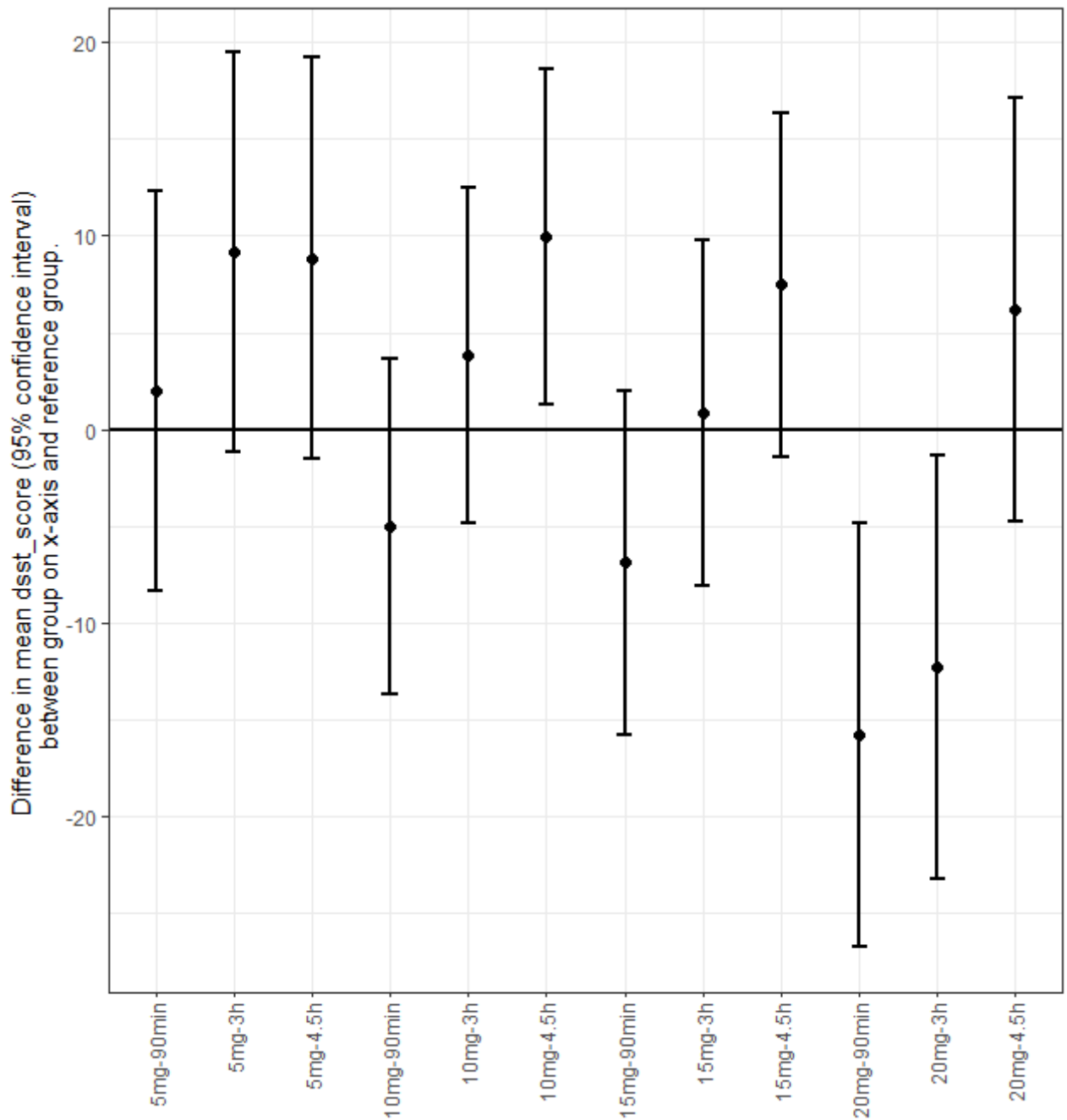


Figure S5.5: Caterpillar plot for dsst_score.

Reaction Time Ruler Drop Test (Mean)

"rt_ruler_mean"

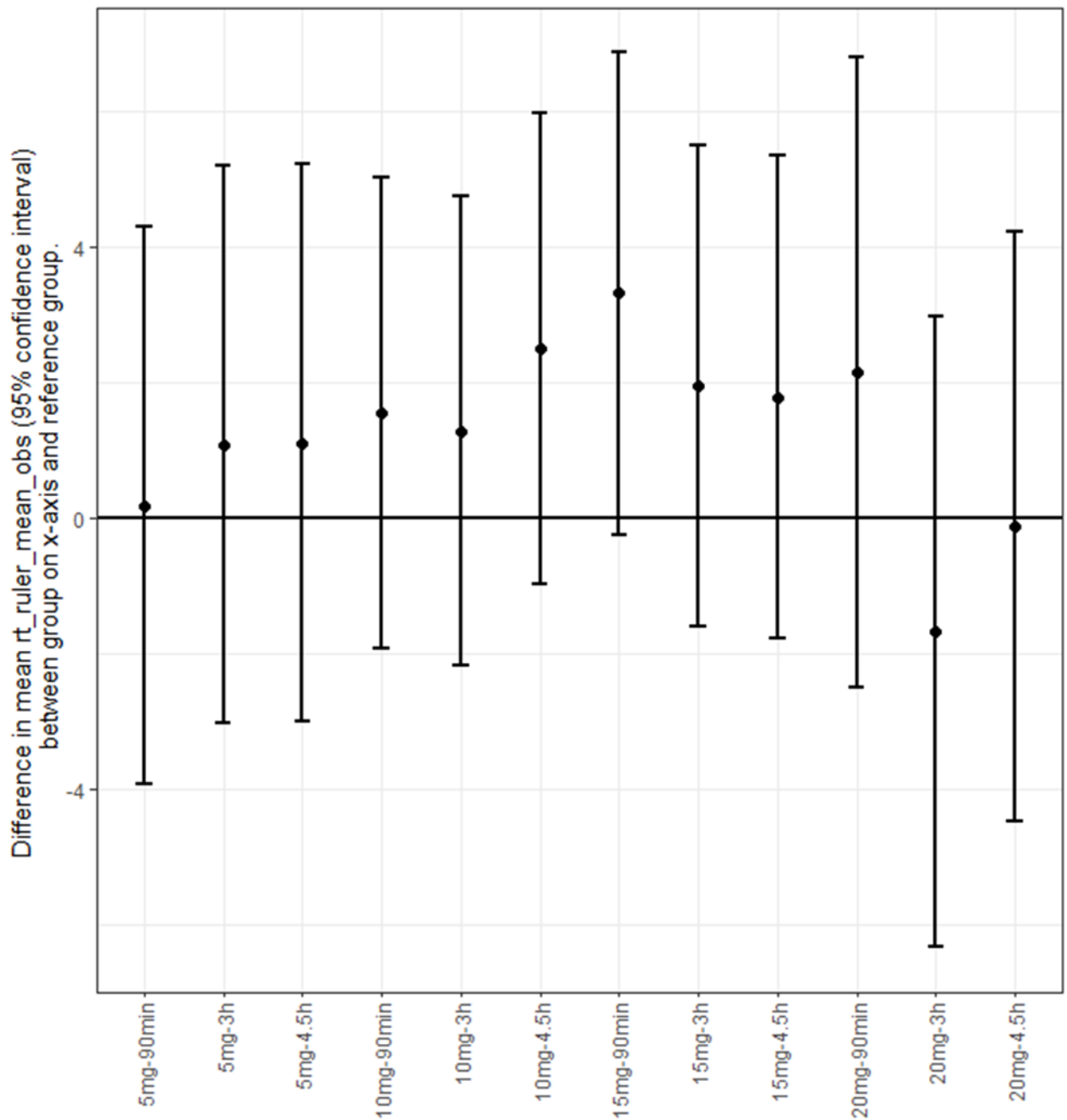


Figure S5.6: Caterpillar plot for *rt_ruler_mean*.

Ego-Dissolution Inventory

Ego-Dissolution Inventory (Mean)

“edi_mean”

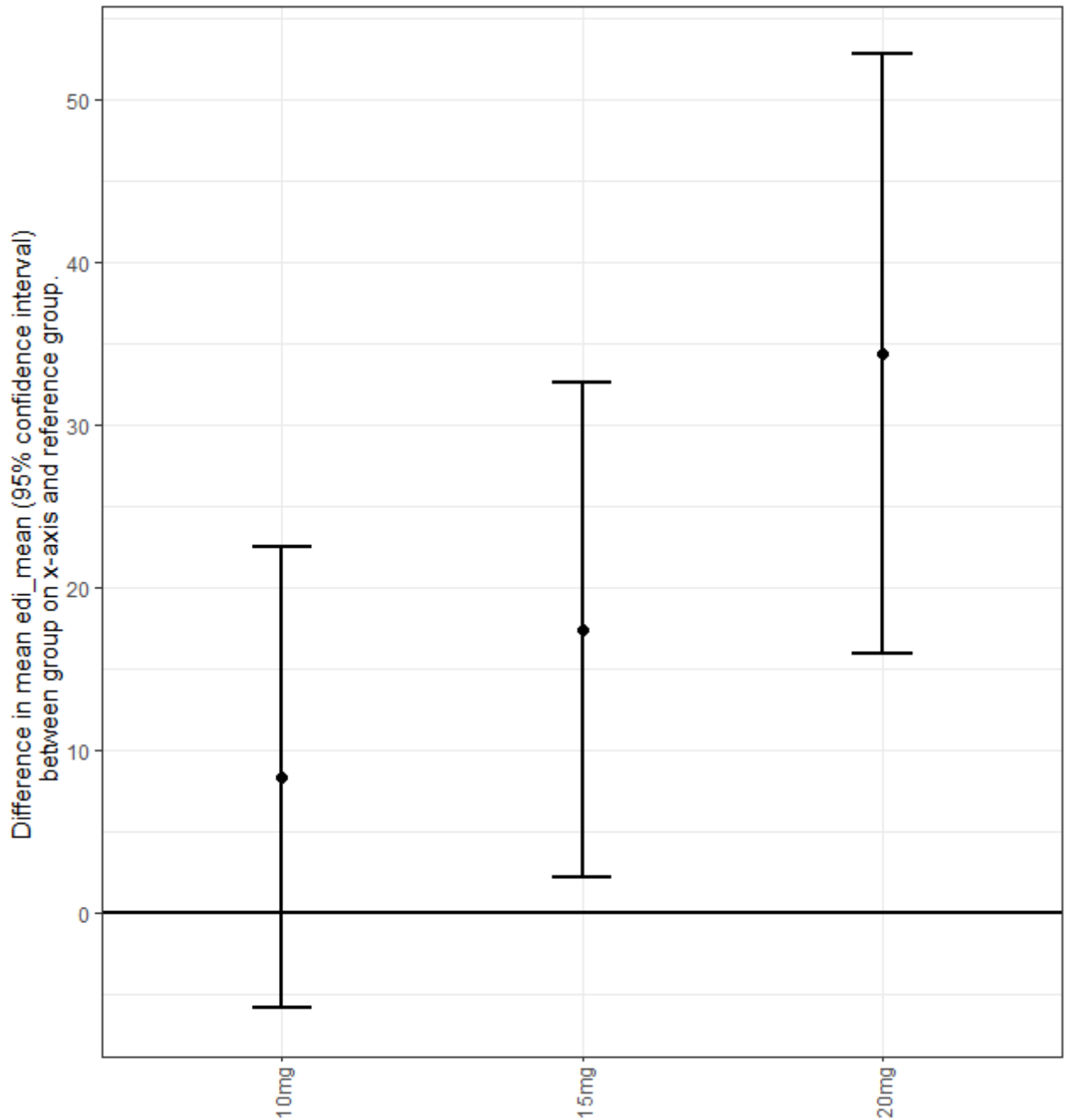


Figure S5.7: Caterpillar plot for edi_mean.

Q1: Dissolution of self

“edi_1”

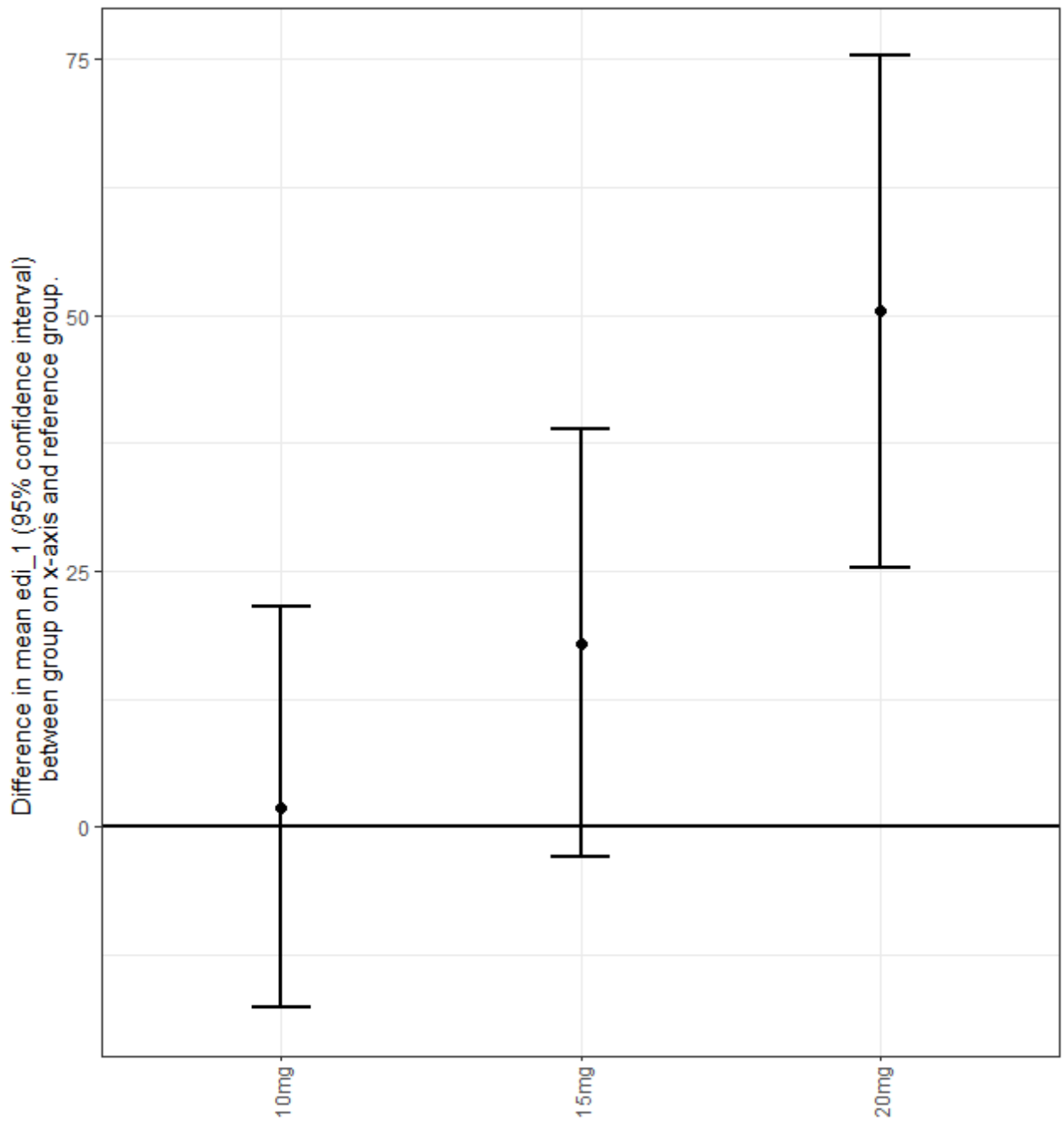


Figure S5.8: Caterpillar plot for edi_1.

Q2: Feeling one with the universe

“edi_2”

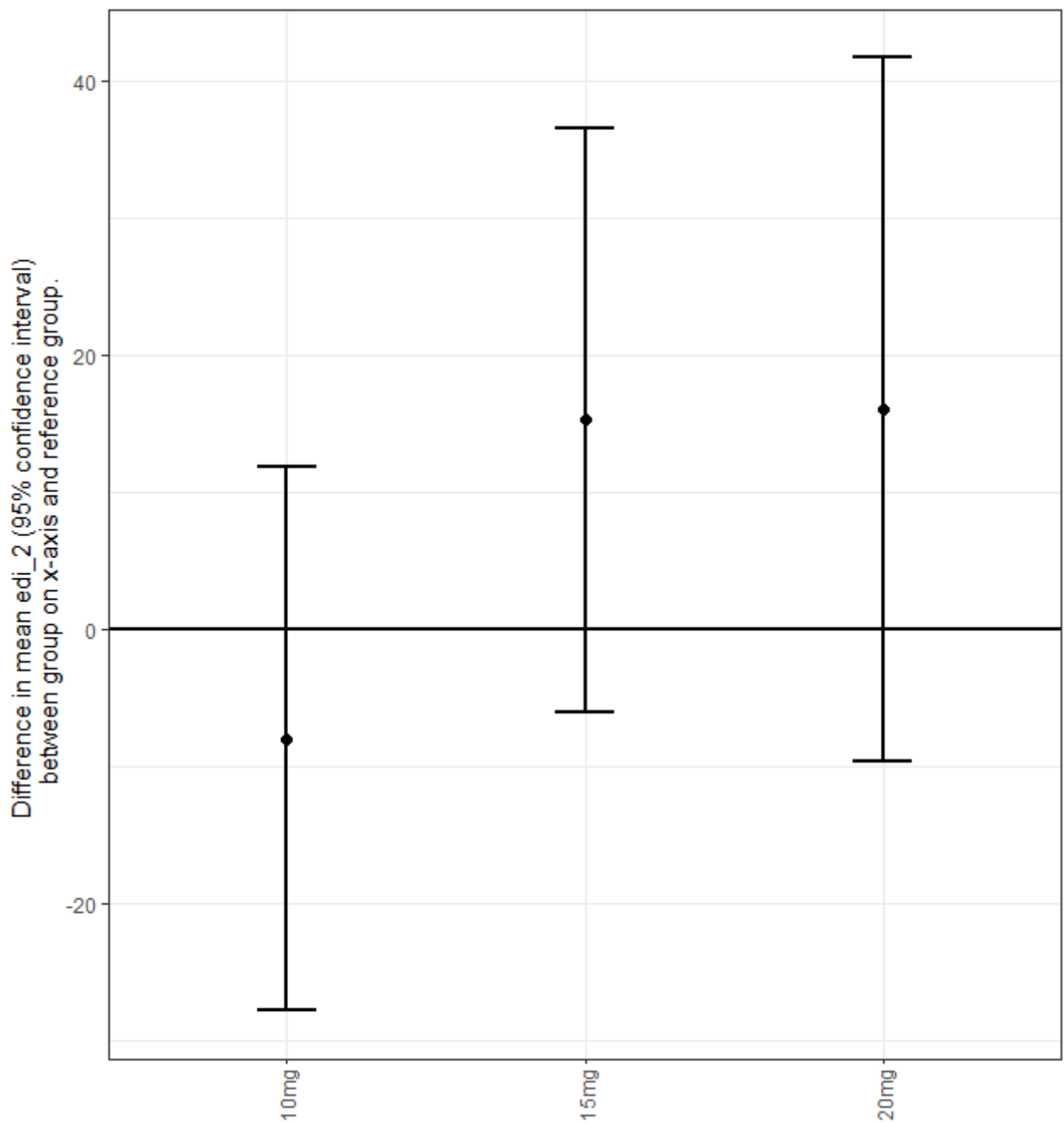


Figure S5.9: Caterpillar plot for edi_2.

Q3: Sense of union with others

“edi_3”

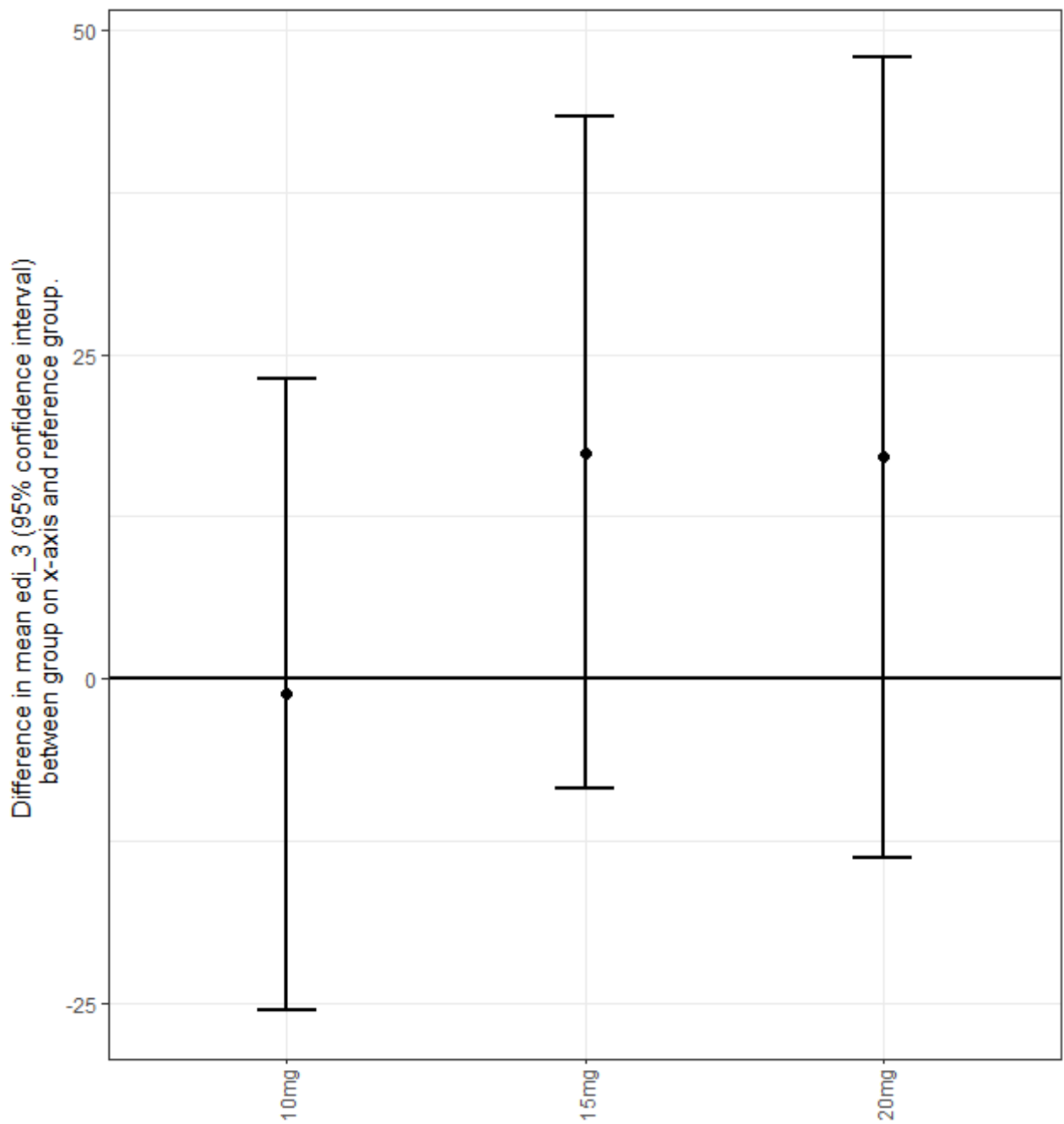


Figure S5.10: Caterpillar plot for edi_3.

Q4: Decrease in sense of self-importance

“edi_4”

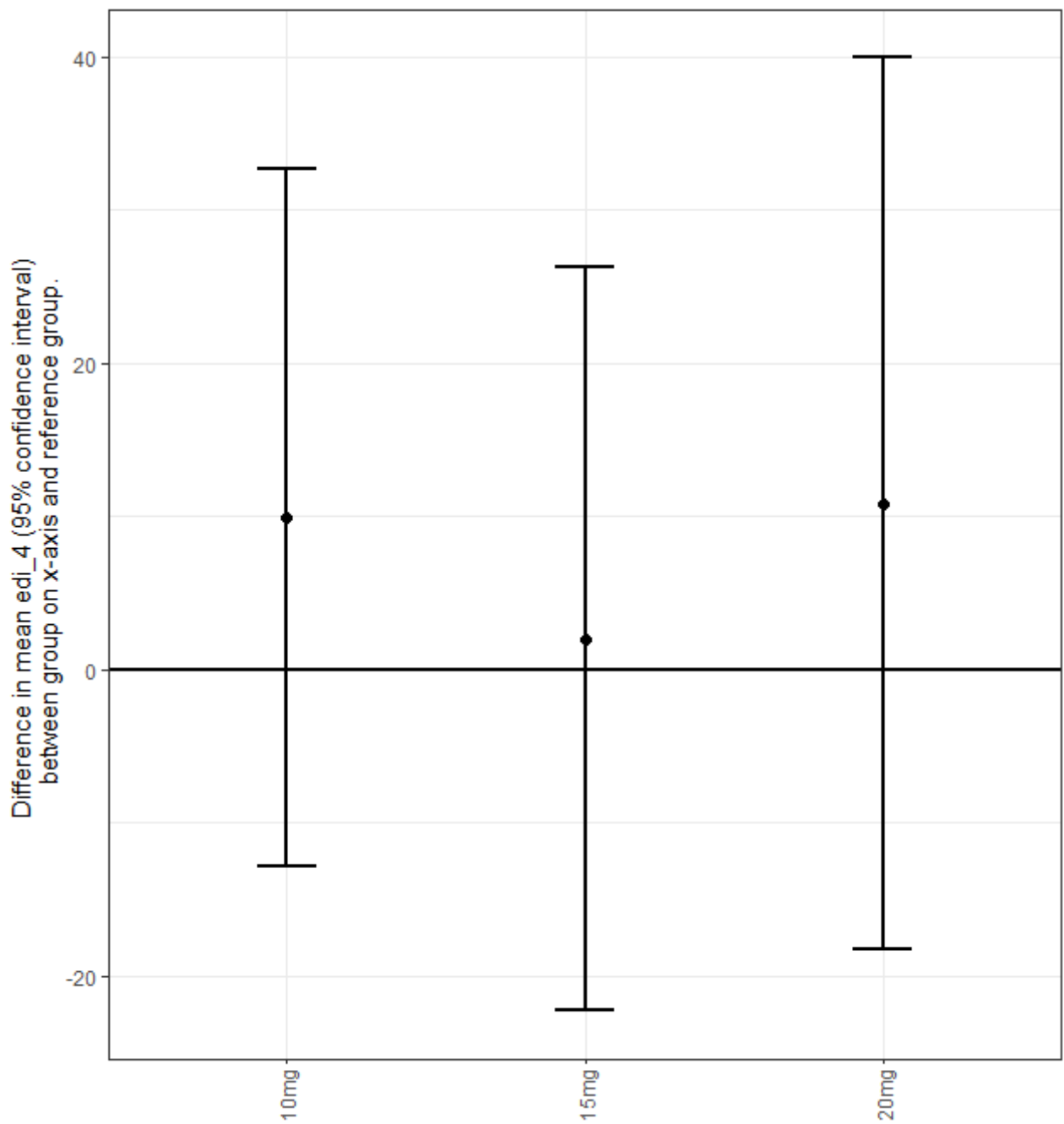


Figure S5.11: Caterpillar plot for edi_4.

Q5: Disintegration of self or ego

“edi_5”

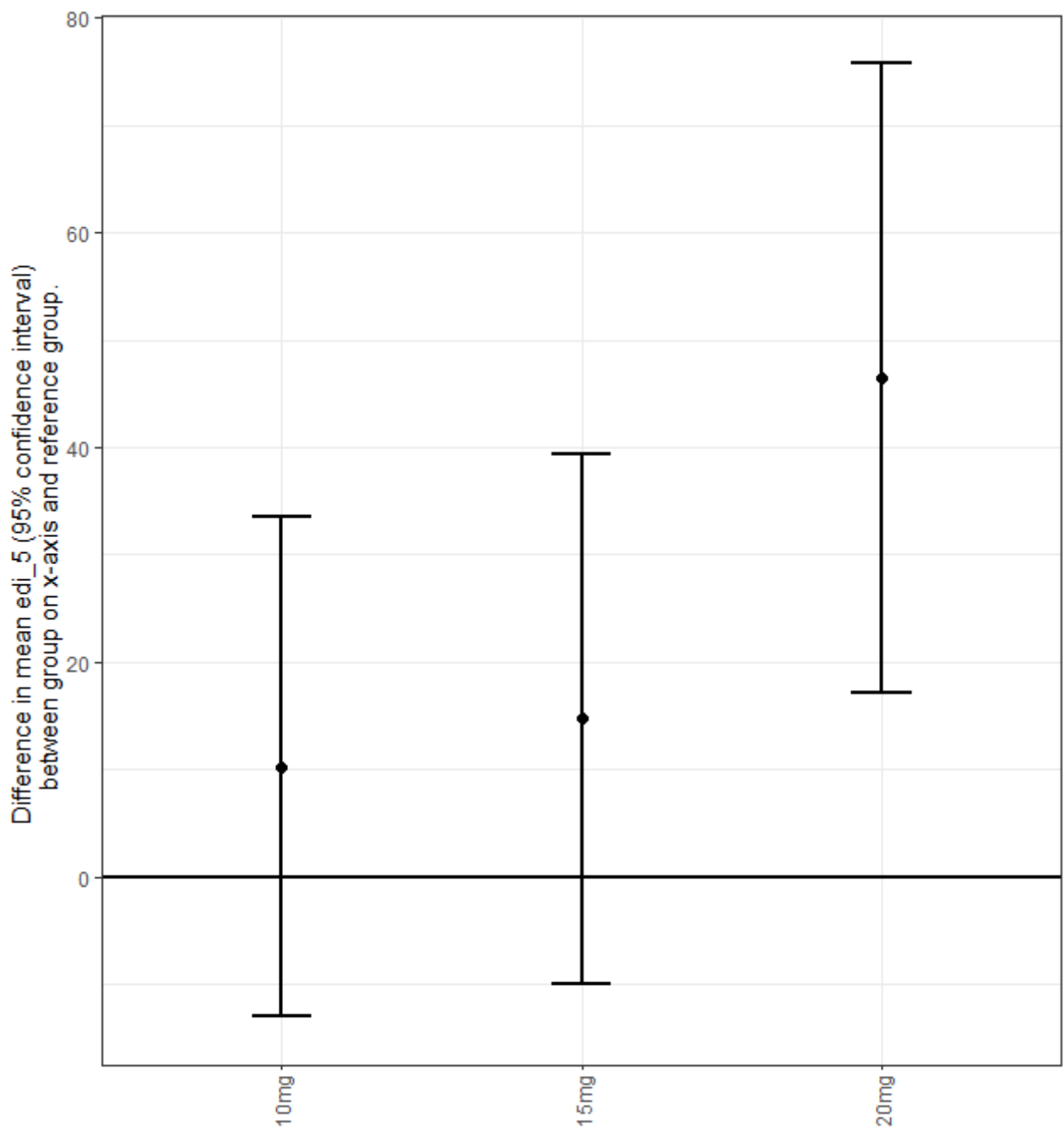


Figure S5.12: Caterpillar plot for edi_5.

Q6: Less absorbed with own issues/concerns

“edi_6”

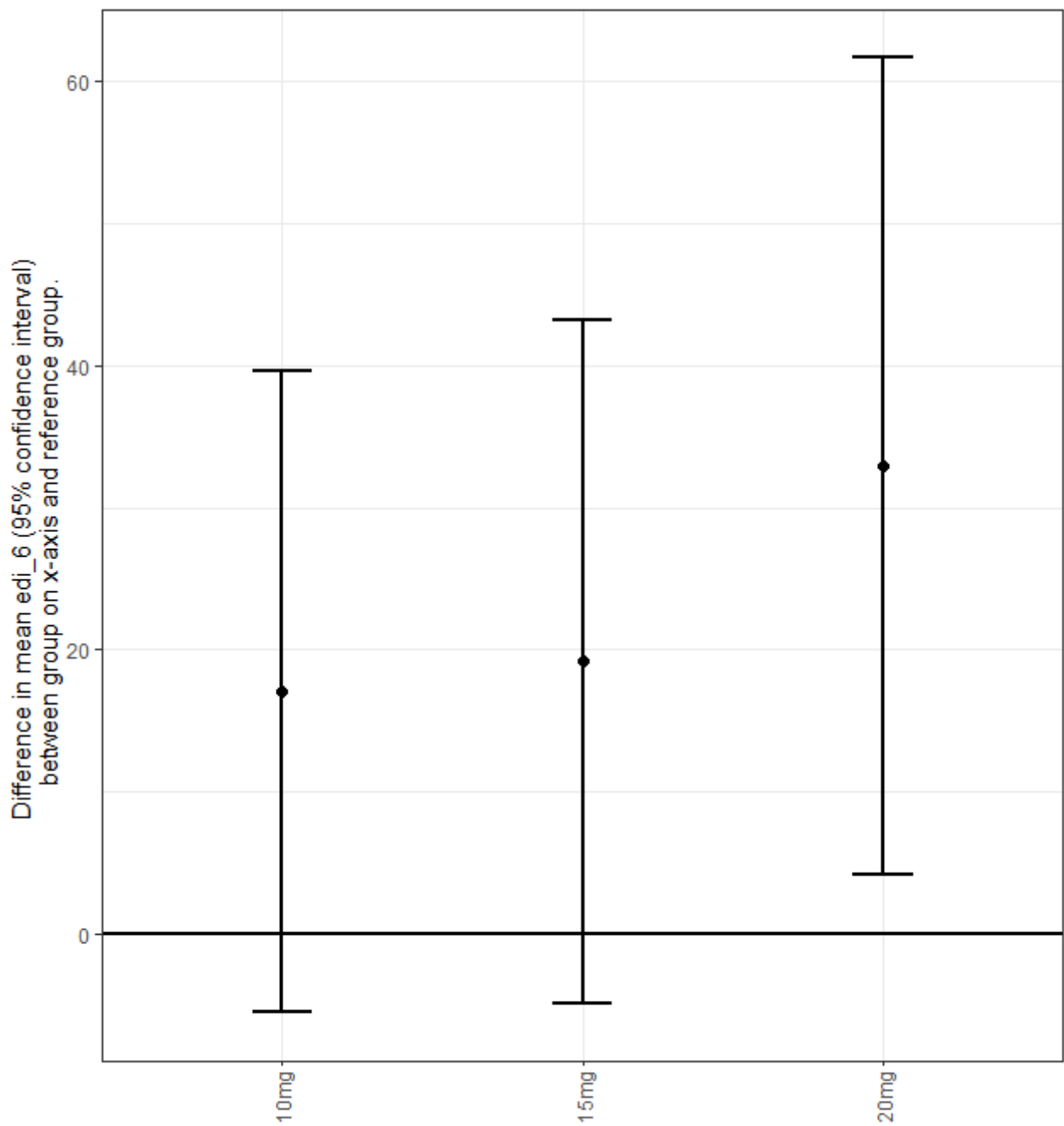


Figure S5.13: Caterpillar plot for edi_6.

Q7: Loss of sense of ego

“edi_7”

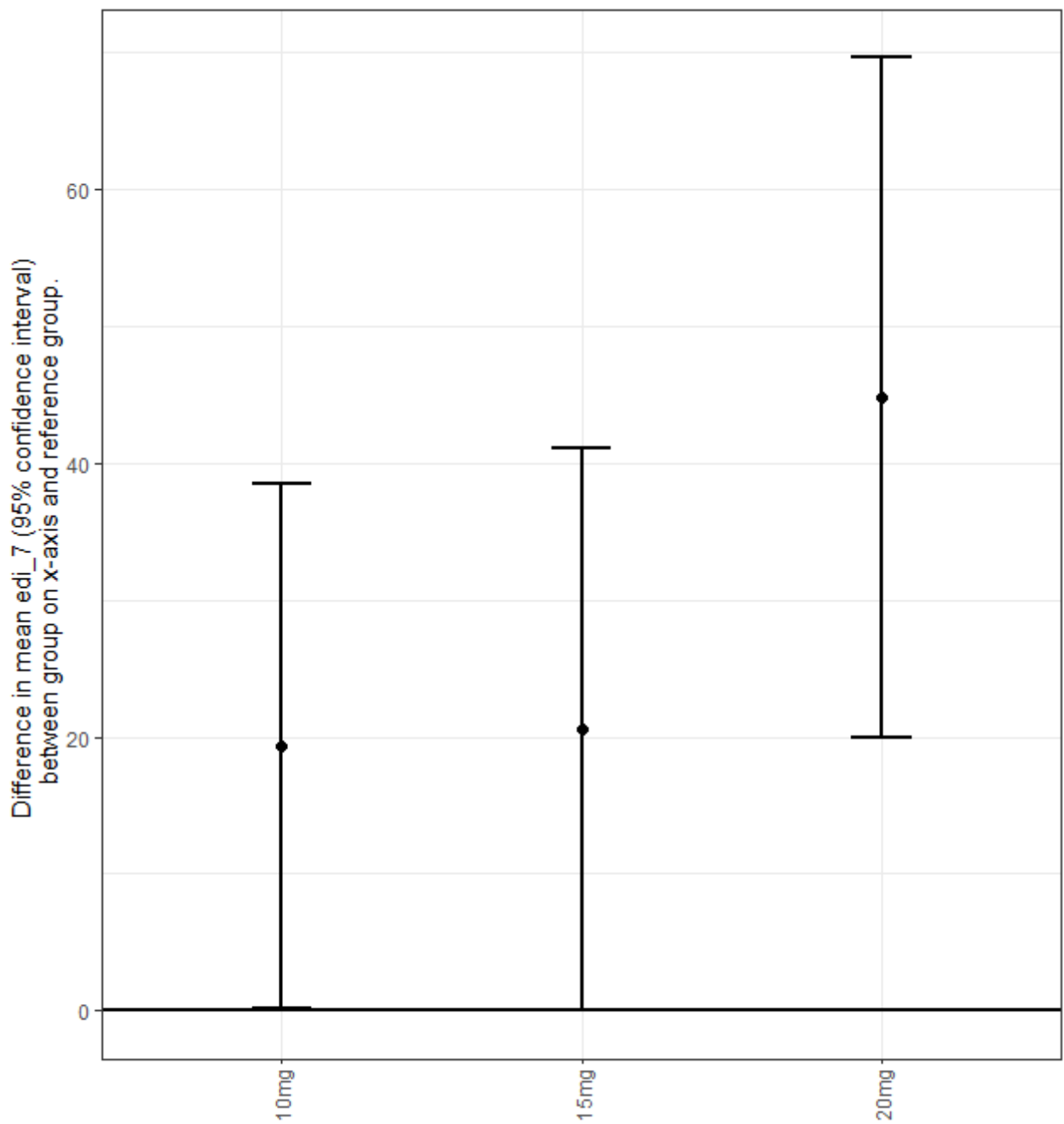


Figure S5.14: Caterpillar plot for edi_7.

Q8: All notion of self and identity dissolved away

“edi_8”

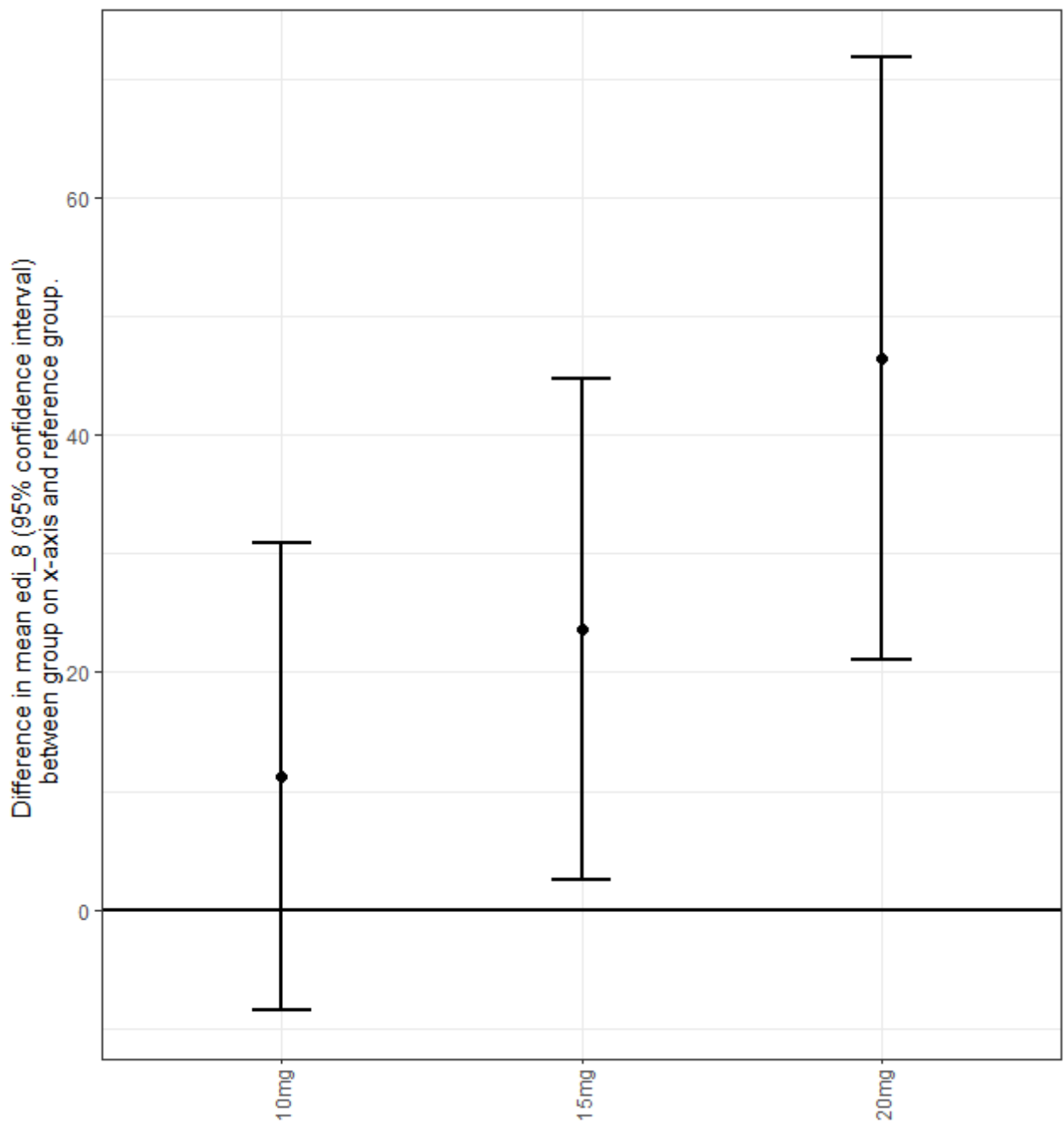


Figure S5.15: Caterpillar plot for edi_8.

5-Dimensional Altered States of Consciousness

5-Dimensional Altered States of Consciousness (Mean)

"d5_asc_mean"

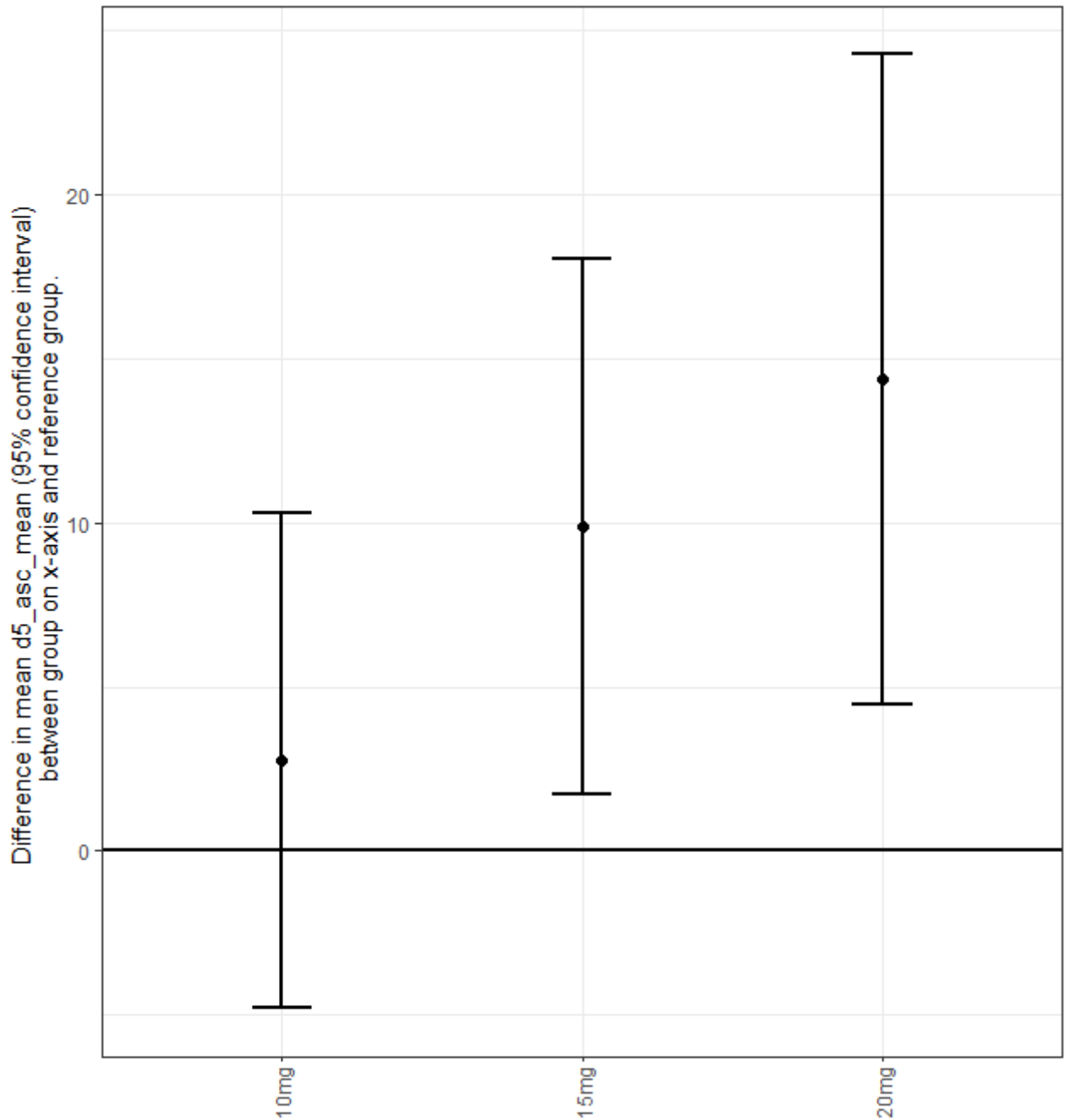


Figure S5.16: Caterpillar plot for d5_asc_mean.

Experience of Unity

"Experience_of_Unity"

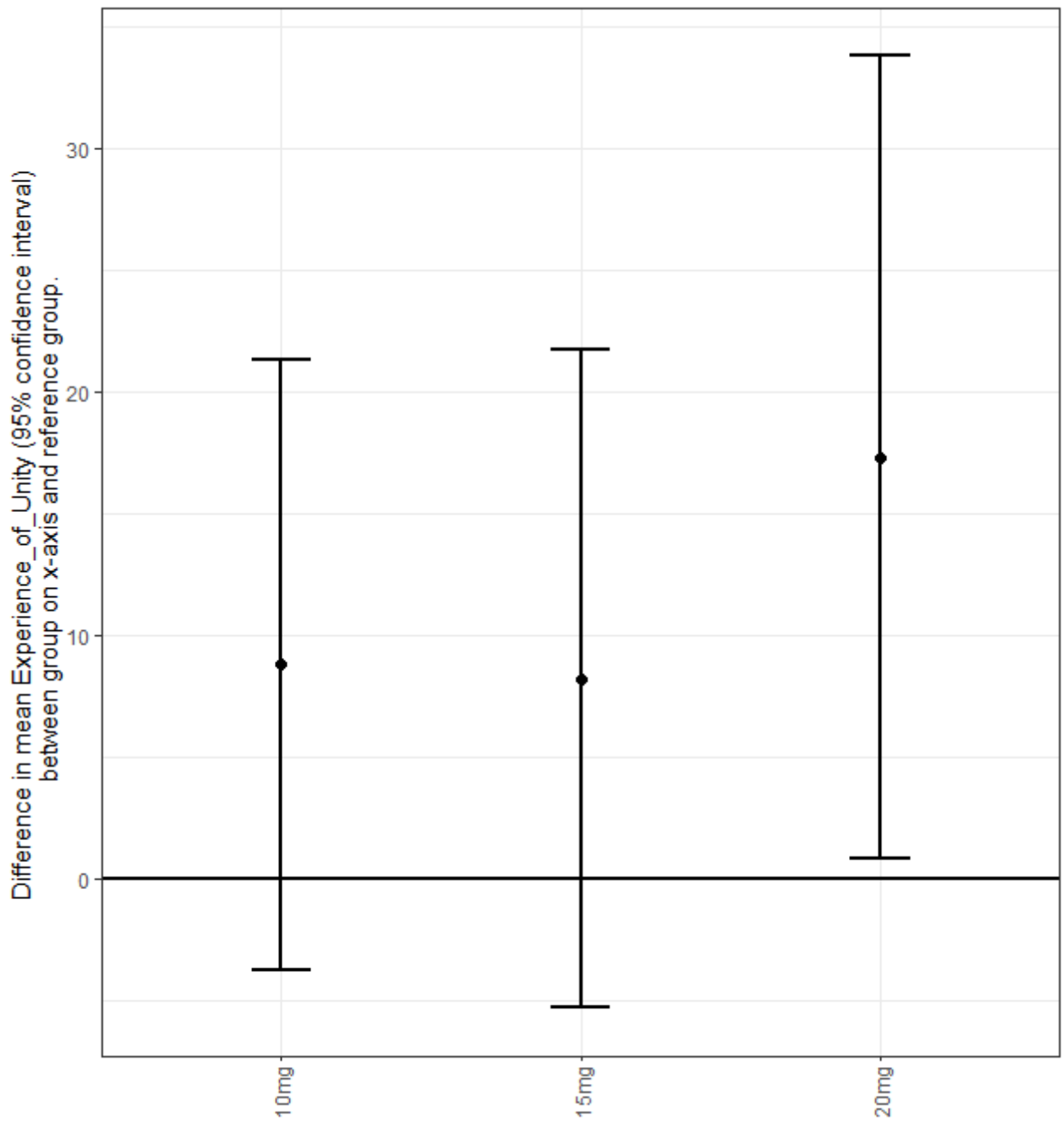


Figure S5.17: Caterpillar plot for Experience_of_Unity.

Spiritual Experience

"Spiritual_Experience"

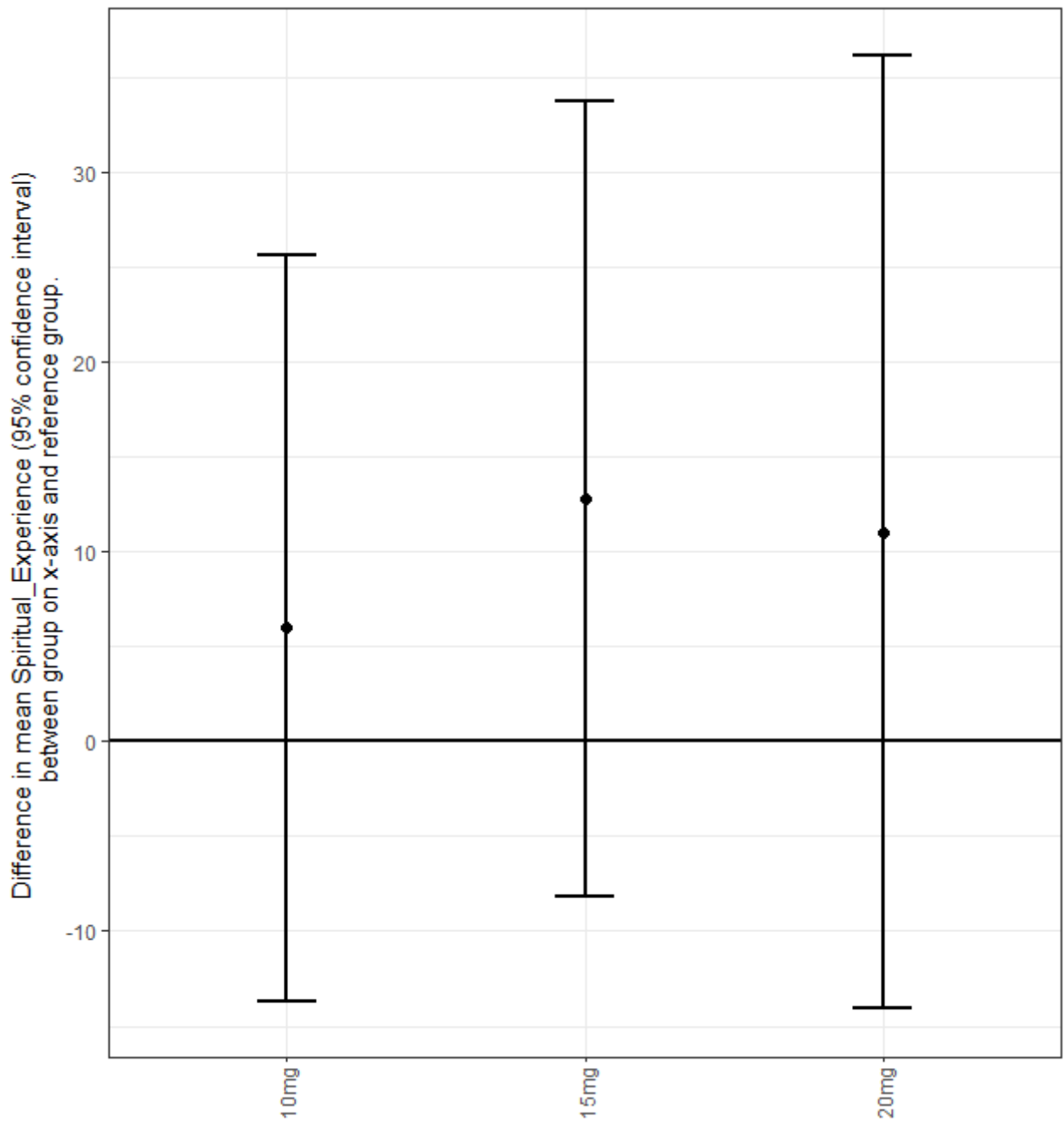


Figure S5.18: Caterpillar plot for *Spiritual_Experience*.

Blissful State

"Blissful_State"

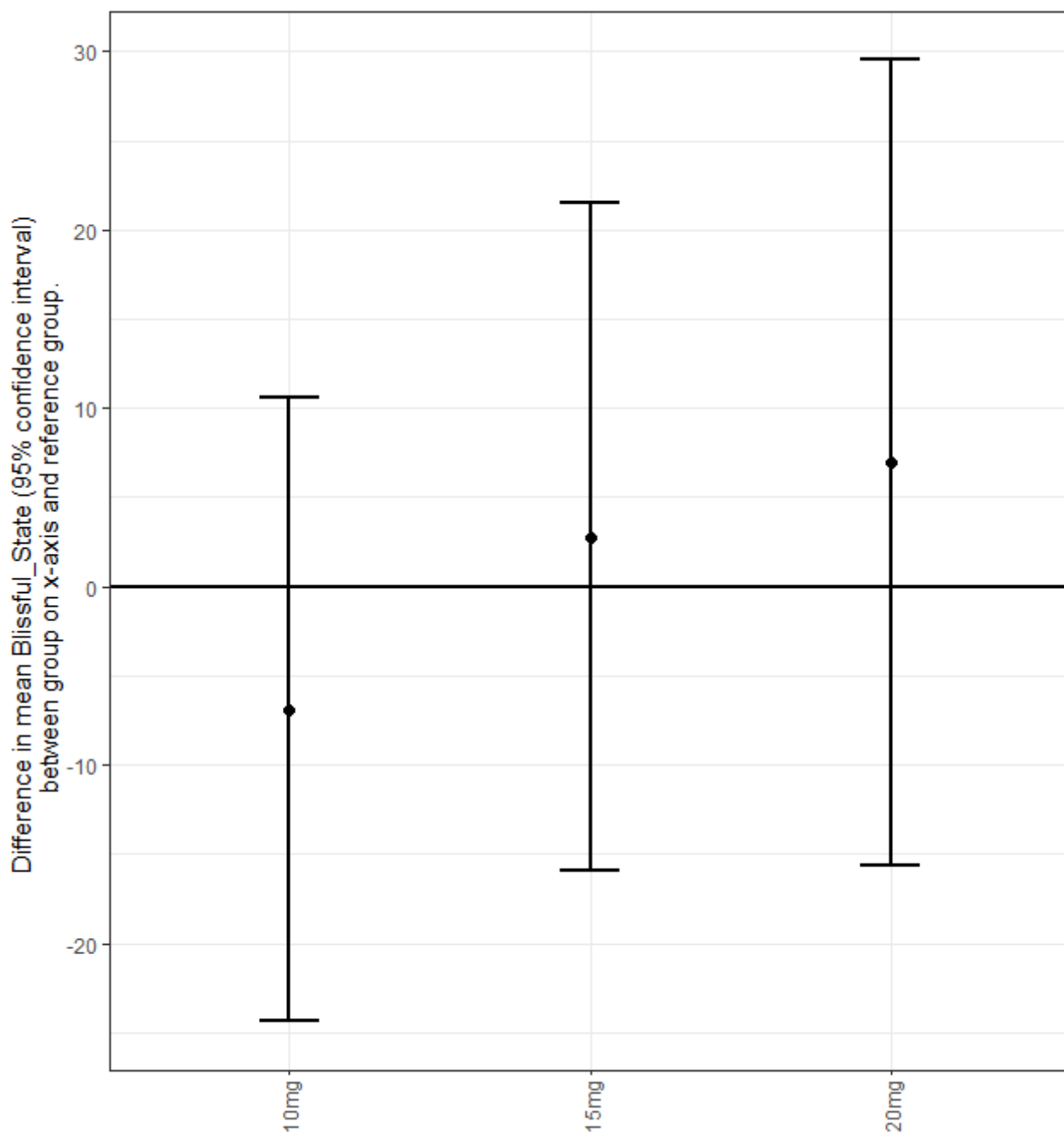


Figure S5.19: Caterpillar plot for Blissful_State.

Insightfulness

“Insightfulness”

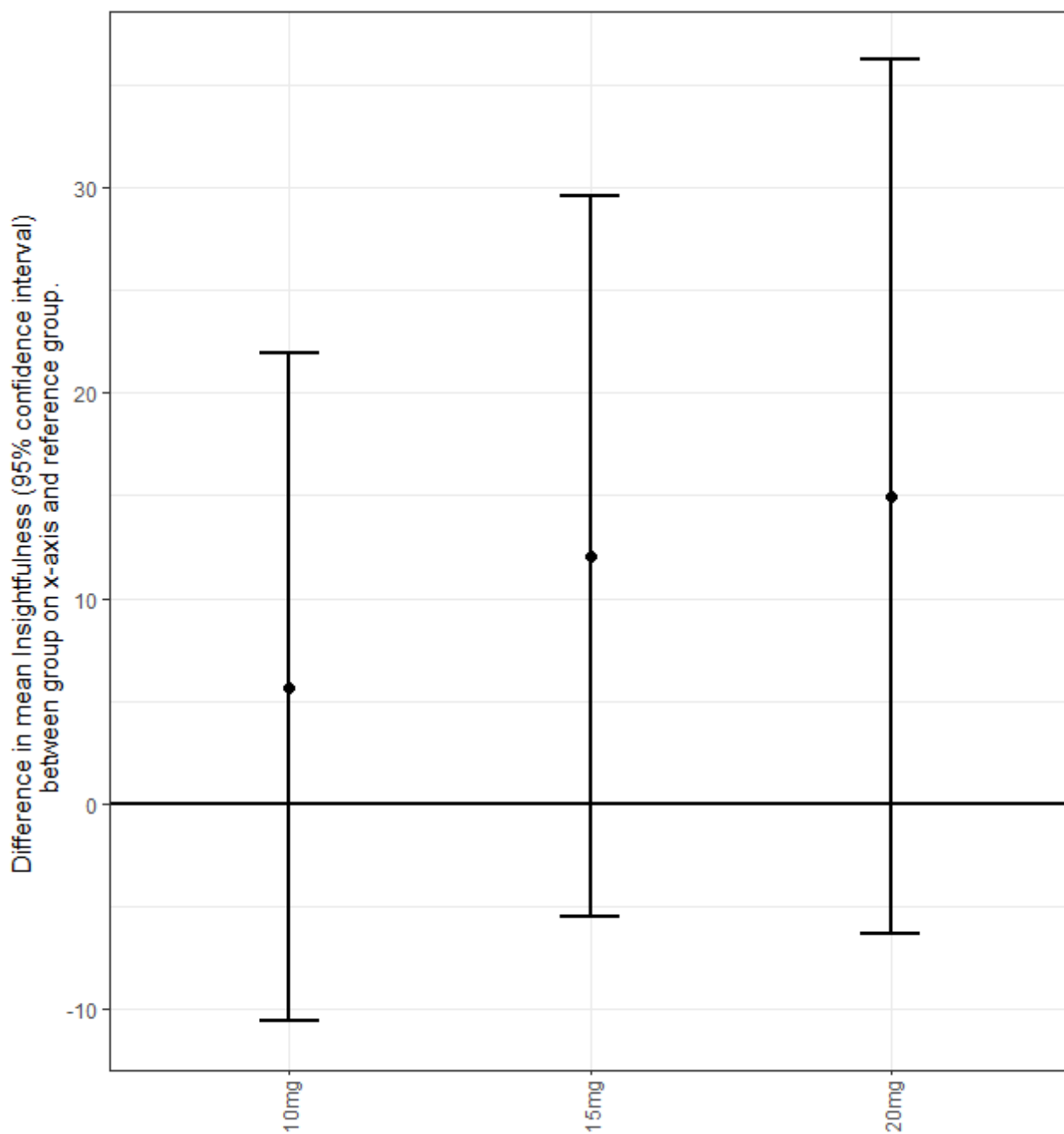


Figure S5.20: Caterpillar plot for Insightfulness.

Disembodiment

“Disembodiment”

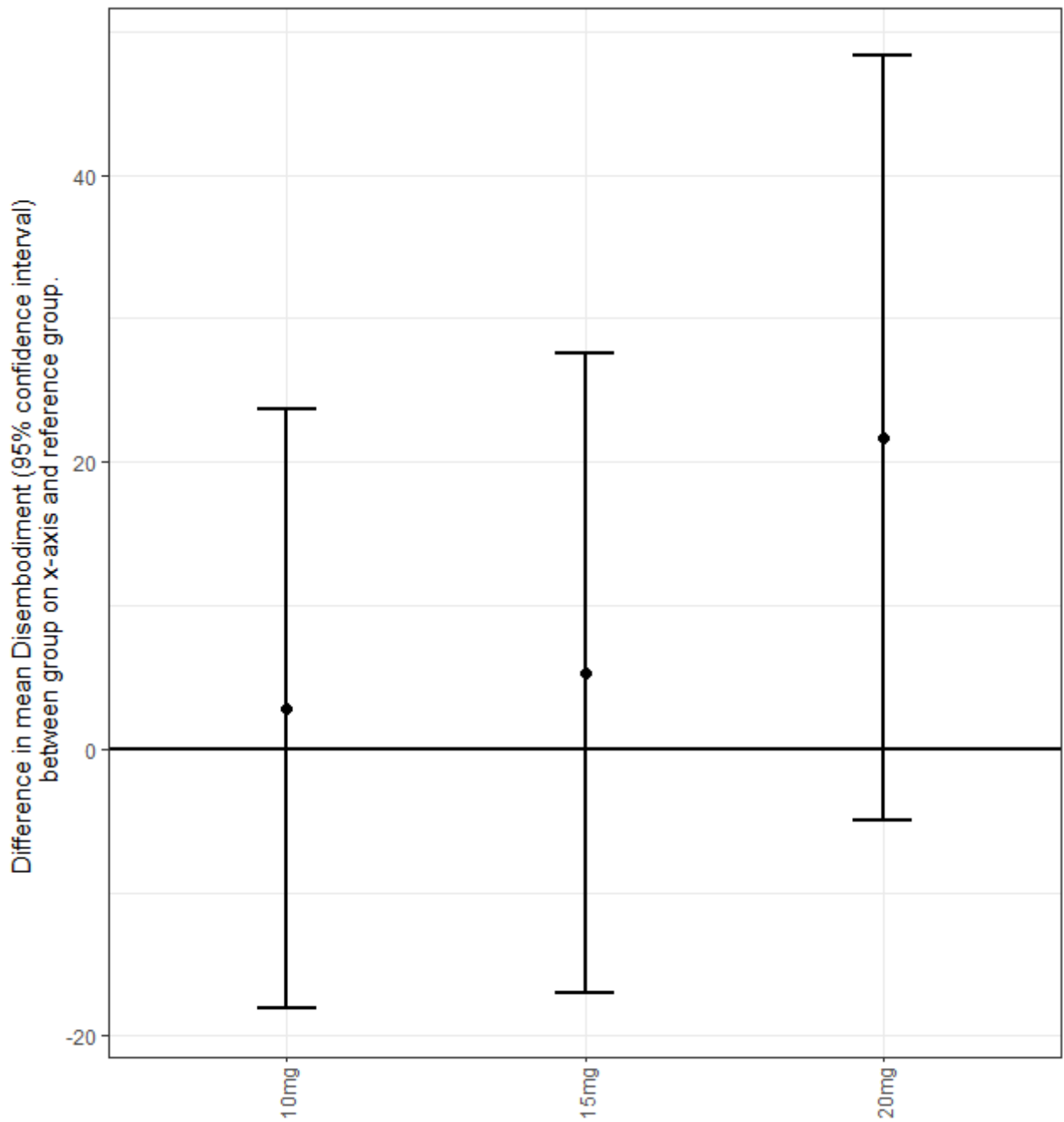


Figure S5.21: Caterpillar plot for Disembodiment.

Impaired Control and Cognition

"Impaired_Control_and_Cognition"

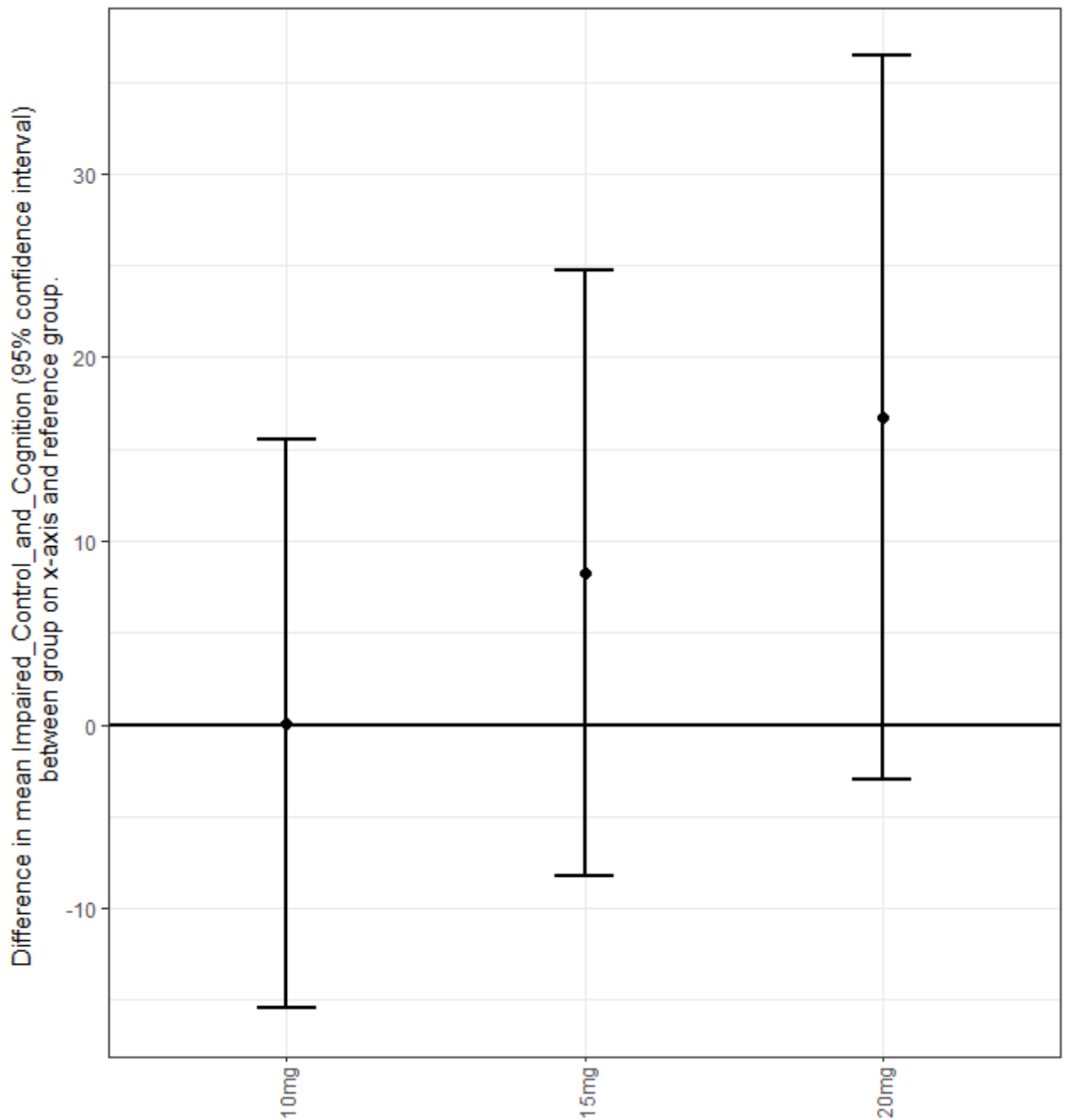


Figure S5.22: Caterpillar plot for *Impaired_Control_and_Cognition*.

Anxiety

“Anxiety”

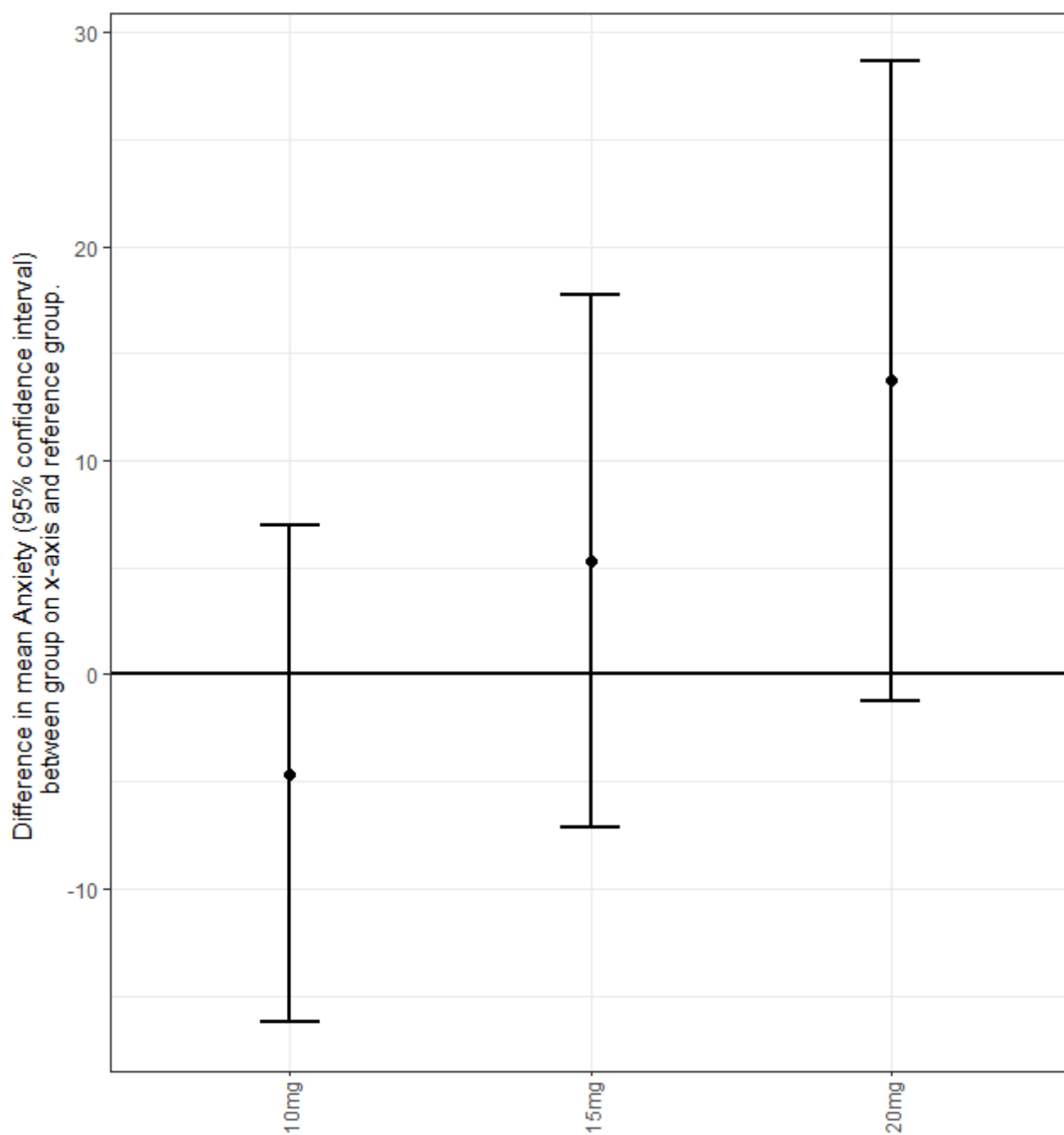


Figure S5.23: Caterpillar plot for Anxiety.

Complex Imagery

“Complex_Imagery”

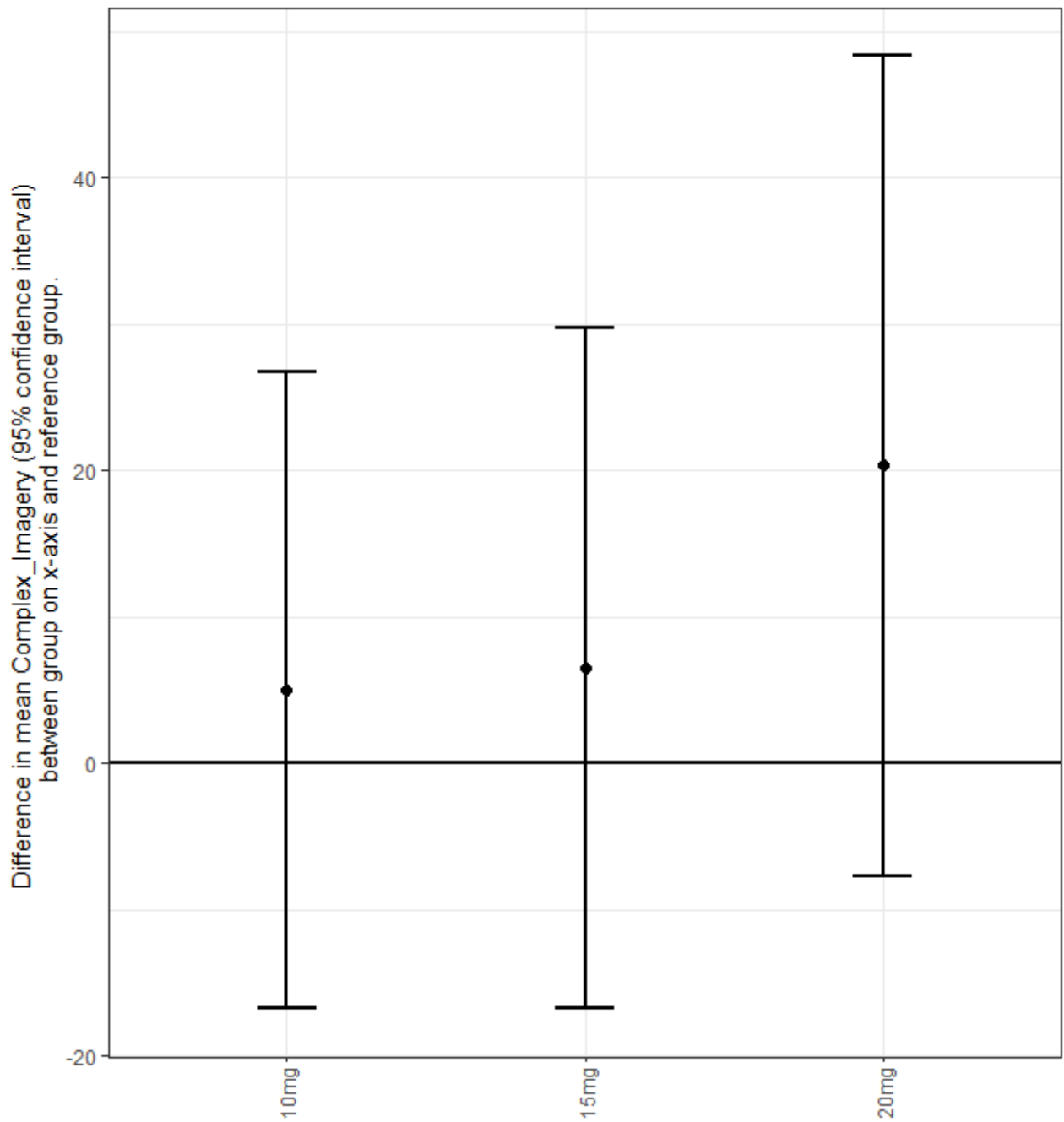


Figure S5.24: Caterpillar plot for Complex_Imagery.

Elementary Imagery

“Elementary_Imagery”

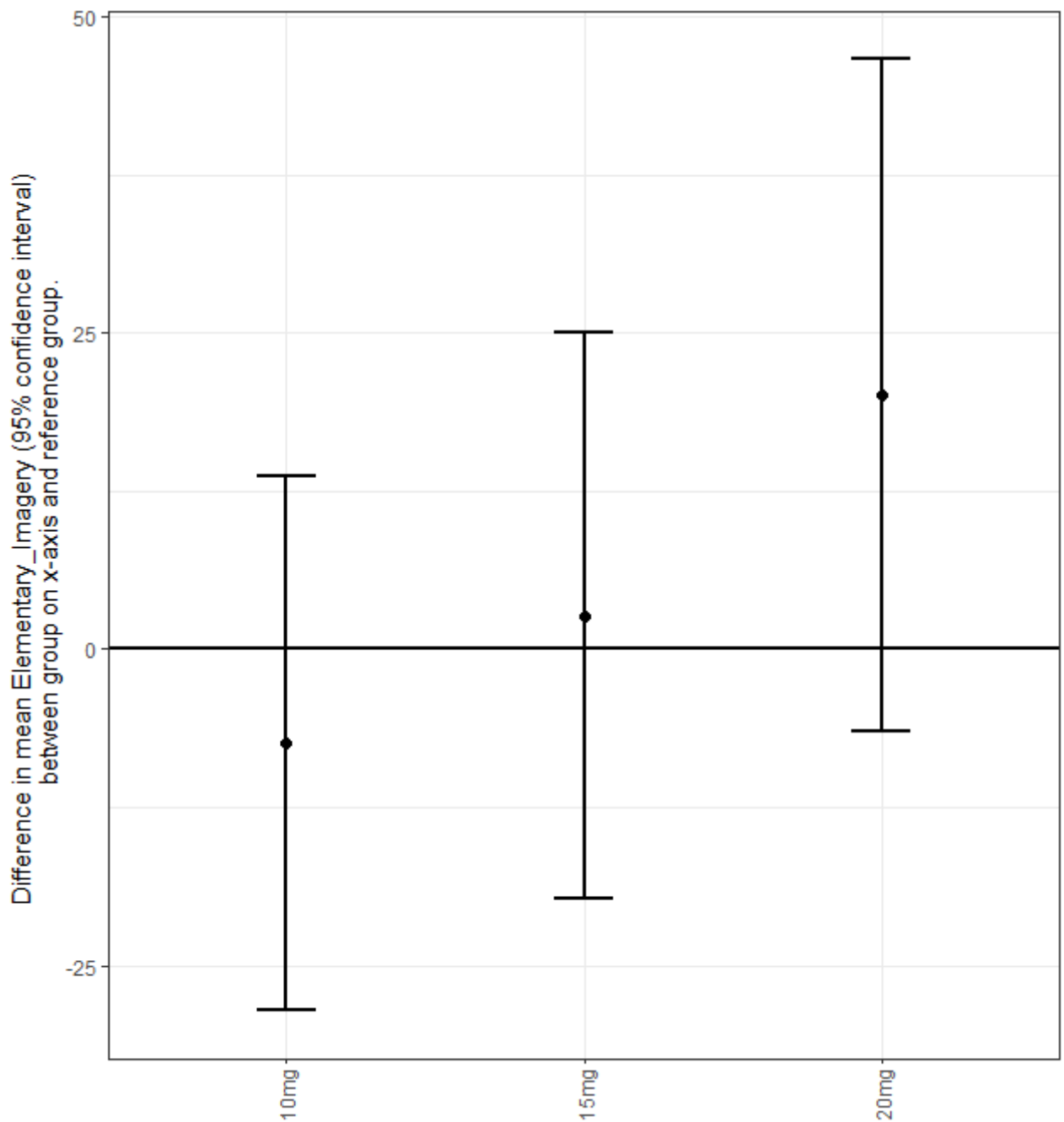


Figure S5.25: Caterpillar plot for *Elementary_Imagery*.

Audio Visual Synesthesiae

“Audio_Visual_Synesthesiae”

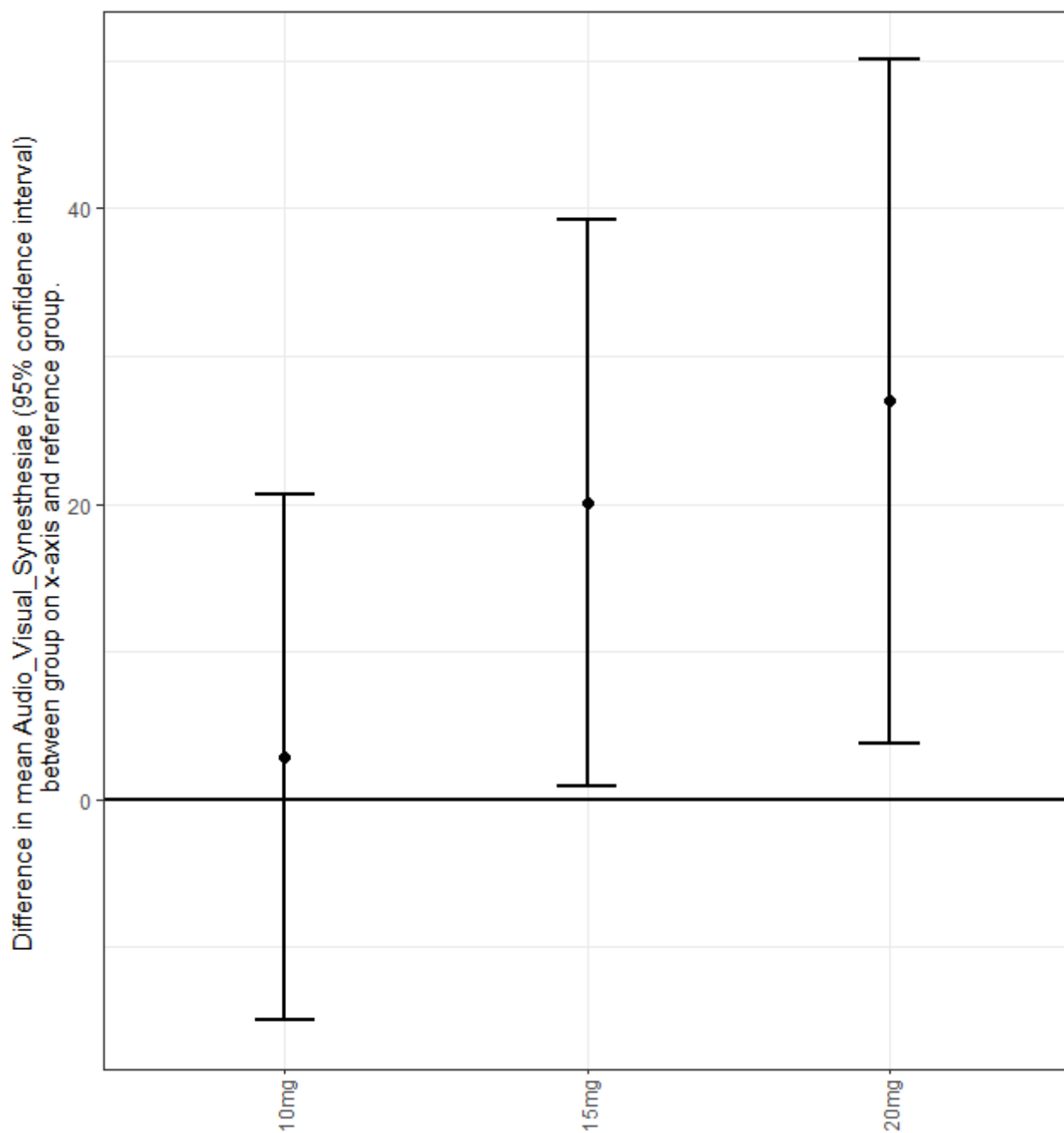


Figure S5.26: Caterpillar plot for Audio_Visual_Synesthesiae.

Changed Meaning of Percepts

“Changed_Meaning_of_Percepts”

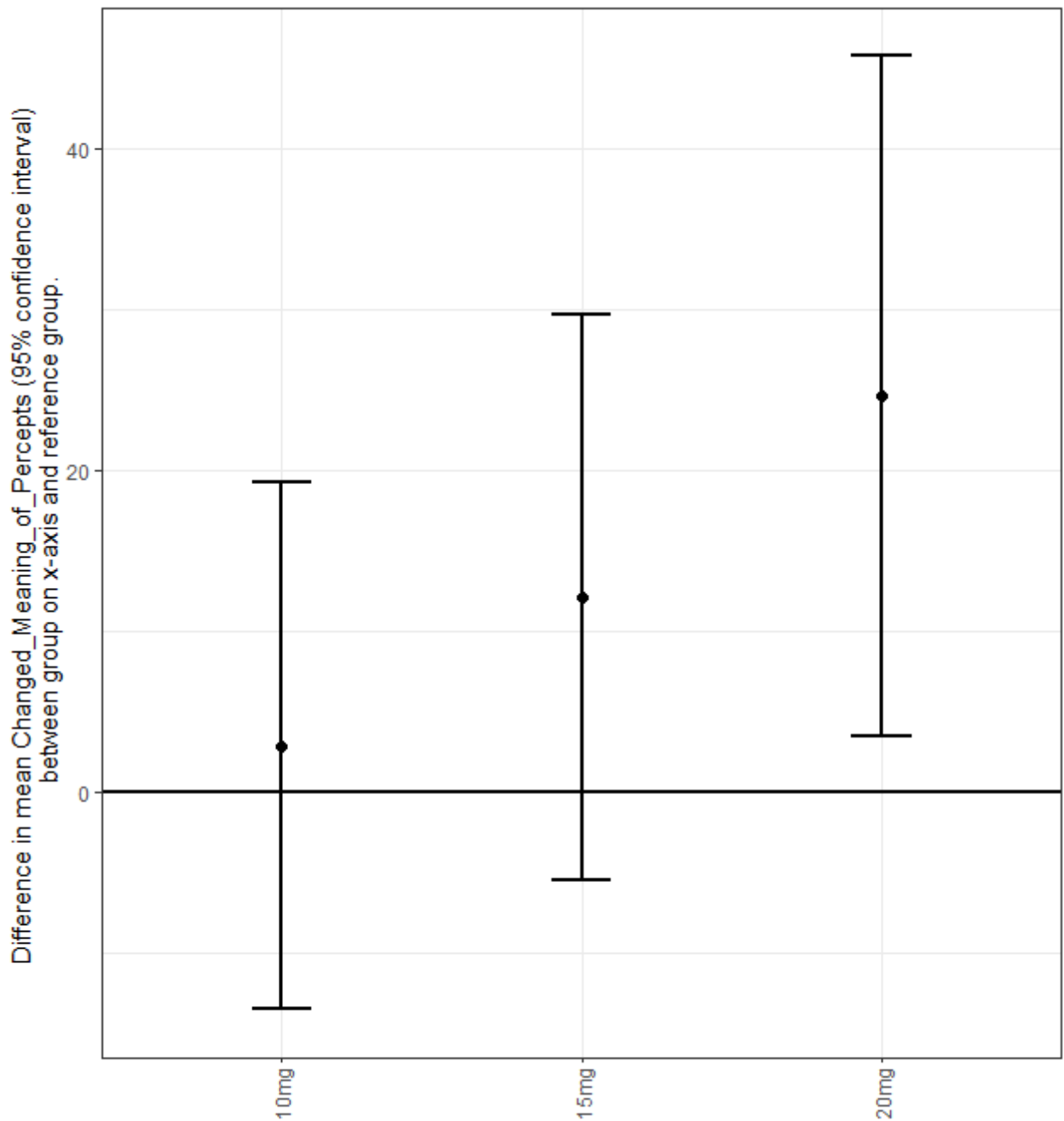


Figure S5.27: Caterpillar plot for *Changed_Meaning_of_Percepts*.