

Statistical report for TECTO trial

Using simulated data

26 maj 2021

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Table 1 - Participant characteristics

		B (n=64)	A (n=64)	Total (n=128)
Age	mean (sd)	15.9 (0.6)	16 (0.6)	16 (0.6)
Gender	Female	20 (31.2)	16 (25.0)	36 (28.1)
	Male	20 (31.2)	18 (28.1)	38 (29.7)
	Other	12 (18.8)	13 (20.3)	25 (19.5)
	Transgender	12 (18.8)	17 (26.6)	29 (22.7)
Nationality	Other	32 (50.0)	28 (43.8)	60 (46.9)
	Danish	32 (50.0)	36 (56.2)	68 (53.1)
Parental education level	mean (sd)	3.8 (2.6)	3.8 (2.6)	3.8 (2.6)
Parental nationality	Other	18 (28.1)	25 (39.1)	43 (33.6)
	Danish and other	27 (42.2)	19 (29.7)	46 (35.9)
	Danish	19 (29.7)	20 (31.2)	39 (30.5)
Full-scale IQ	mean (sd)	95.5 (14.7)	94.2 (15.6)	94.9 (15.1)
OCD-subtype	Mixed obsessional thoughts and acts	21 (32.8)	21 (32.8)	42 (32.8)
	Predominantly compulsive acts	24 (37.5)	25 (39.1)	49 (38.3)
	Predominantly obsessional thoughts or ruminations	19 (29.7)	18 (28.1)	37 (28.9)
Comorbidities	Depressive disorders	36 (56.2)	32 (50.0)	68 (53.1)
	Anxiety disorders	23 (35.9)	33 (51.6)	56 (43.8)
	Adjustment disorders	37 (57.8)	26 (40.6)	63 (49.2)
	Eating disorders	30 (46.9)	36 (56.2)	66 (51.6)
	Personality disorders	30 (46.9)	38 (59.4)	68 (53.1)
	Aspergers Syndrome	35 (54.7)	41 (64.1)	76 (59.4)
	Hyperkinetic disorders	29 (45.3)	34 (53.1)	63 (49.2)
	Conduct disorders	24 (37.5)	27 (42.2)	51 (39.8)
	Tics/Tourettes syndrome	32 (50.0)	39 (60.9)	71 (55.5)
	Elimination disorders	41 (64.1)	33 (51.6)	74 (57.8)

The education-level from the parent with the highest education is used (using ISCED).

Table 2 - Baseline psychopathology

		B (n=64)	A (n=64)	Total (n=128)
SRS	mean (sd)	208.6 (103.4)	203.2 (123.4)	205.9 (113.4)
CY-BOCS	mean (sd)	20.3 (11.4)	20.1 (11)	20.2 (11.1)
Kidscreen-10	mean (sd)	-2.1 (1.4)	-1.9 (1.5)	-2 (1.5)
COIS-R	mean (sd)	16.4 (9.7)	17.8 (8.8)	17.1 (9.2)
CGI-S	mean (sd)	14.4 (10.4)	15.3 (9.3)	14.9 (9.8)
CGAS	mean (sd)	23.5 (13.7)	21 (12.9)	22.3 (13.3)
TOCS	mean (sd)	23.9 (11.6)	19.8 (13.3)	21.8 (12.6)
TAFQ-A	mean (sd)	22.6 (14.5)	20.7 (13.8)	21.7 (14.1)

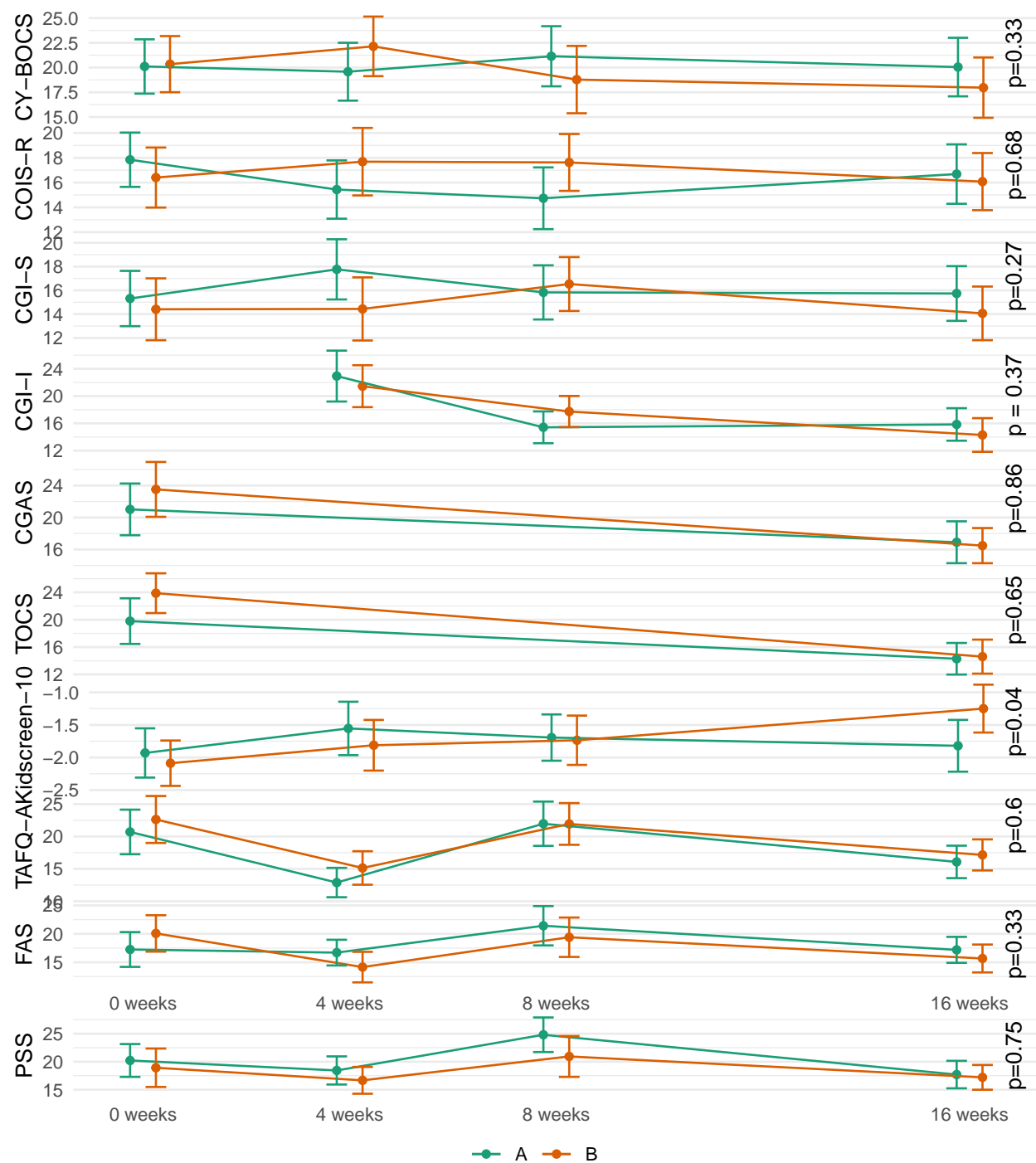
SRS: Social responsiveness scale; CY-BOCS: Children's Yale-Brown Obsessive Compulsive Scale; COIS-R: Child Obsessive-Compulsive Impact Scale-Revised; CGI-S: Clinical Global Impressions Severity; CGAS: Children's Global Assessment Scale; TOCS: Toronto Obsessive-Compulsive Scale; TAFQ-A: Thought-Action Fusion Questionnaire for Adolescents.

Table 3 - Family characteristics

		B (n=64)	A (n=64)	Total (n=128)
FES - Relationship Dimensions	Cohesion	51.1 (33.1)	54.5 (26.6)	52.8 (29.9)
	Expressiveness	56.3 (30.2)	51.2 (31.2)	53.7 (30.7)
	Conflict	51.3 (29.8)	50.9 (27.1)	51.1 (28.4)
FES - Personal Growth Dimensions	Independence	49.5 (28.8)	53.1 (28.7)	51.3 (28.7)
	Achievement Orientation	50.4 (29.3)	44.3 (31.6)	47.3 (30.5)
	Intellectual-Cultural Orientation	50.5 (29.2)	51.6 (28.2)	51.1 (28.6)
	Active-Recreational Orientation	50.5 (26.8)	48.8 (29.3)	49.7 (28)
	Moral-Religious Emphasis	51.4 (30.9)	50.2 (28.8)	50.8 (29.8)
FES - System Maintenance Dimensions	Oranization	47.2 (29.1)	46.1 (28.2)	46.7 (28.6)
	Control	53.3 (27.8)	46.6 (28.8)	49.9 (28.4)
FAS	mean (sd)	20.1 (12.8)	17.2 (12.2)	18.7 (12.6)
PSS	mean (sd)	18.9 (13.7)	20.2 (11.7)	19.6 (12.7)

For PSS, FES, and SRS the average of the parents who responded is presented. FES: Family Environment Scale; PSS: Parental stress scale; FAS: Family Accommodation Scale for Obsessive-Compulsive Disorder.

Figure 1 - Psychopathological scores



CY-BOCS: Children's Yale-Brown Obsessive Compulsive Scale; COIS-R: Child Obsessive-Compulsive Impact Scale-Revised; CGI-S: Clinical Global Impressions Severity; CGI-I: Clinical Global Impressions Improvement; CGAS: Children's Global Assessment Scale; TOCS: Toronto Obsessive-Compulsive Scale; TAFQ-A: Thought-Action Fusion Questionnaire for Adolescents; FAS: Family Accommodation Scale for Obsessive-Compulsive Disorder; PSS: Parental stress scale.

Figure 2 - Response status at 16 weeks

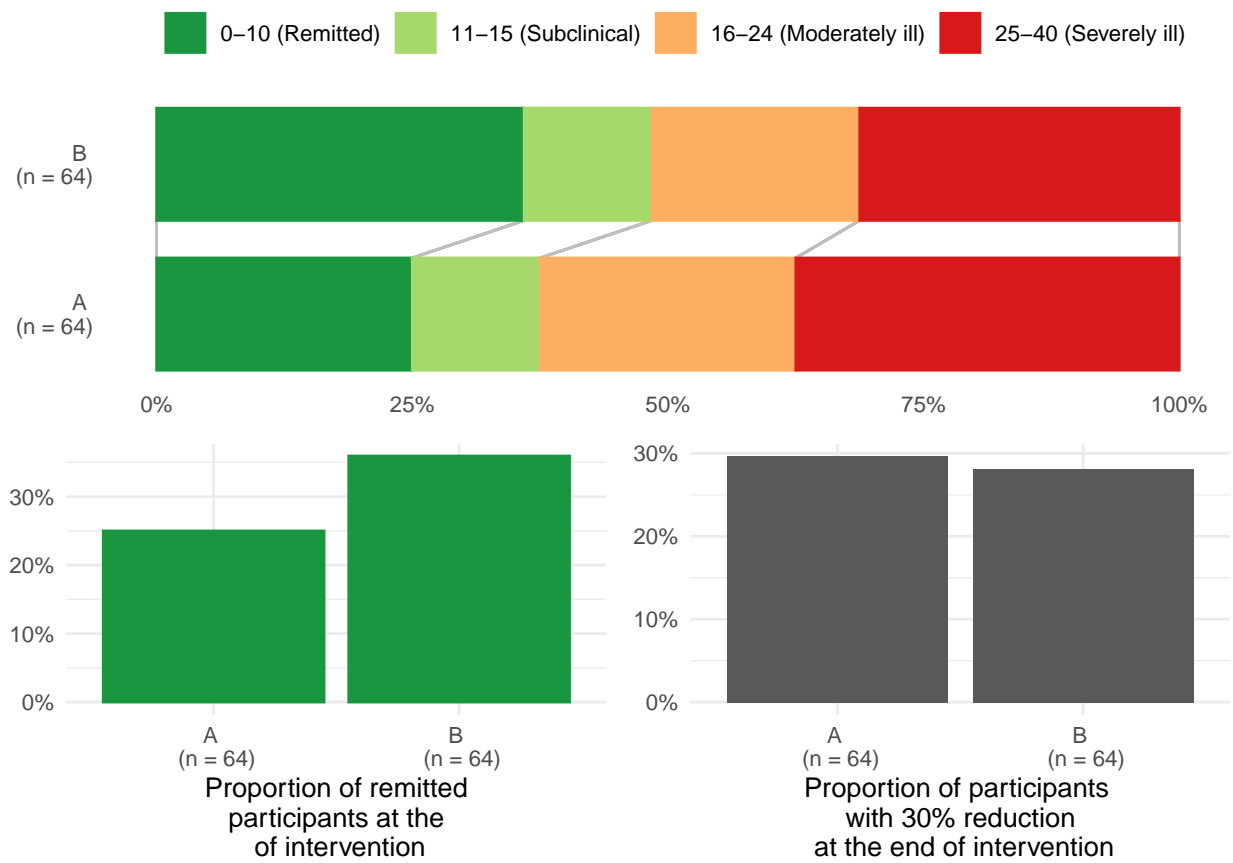
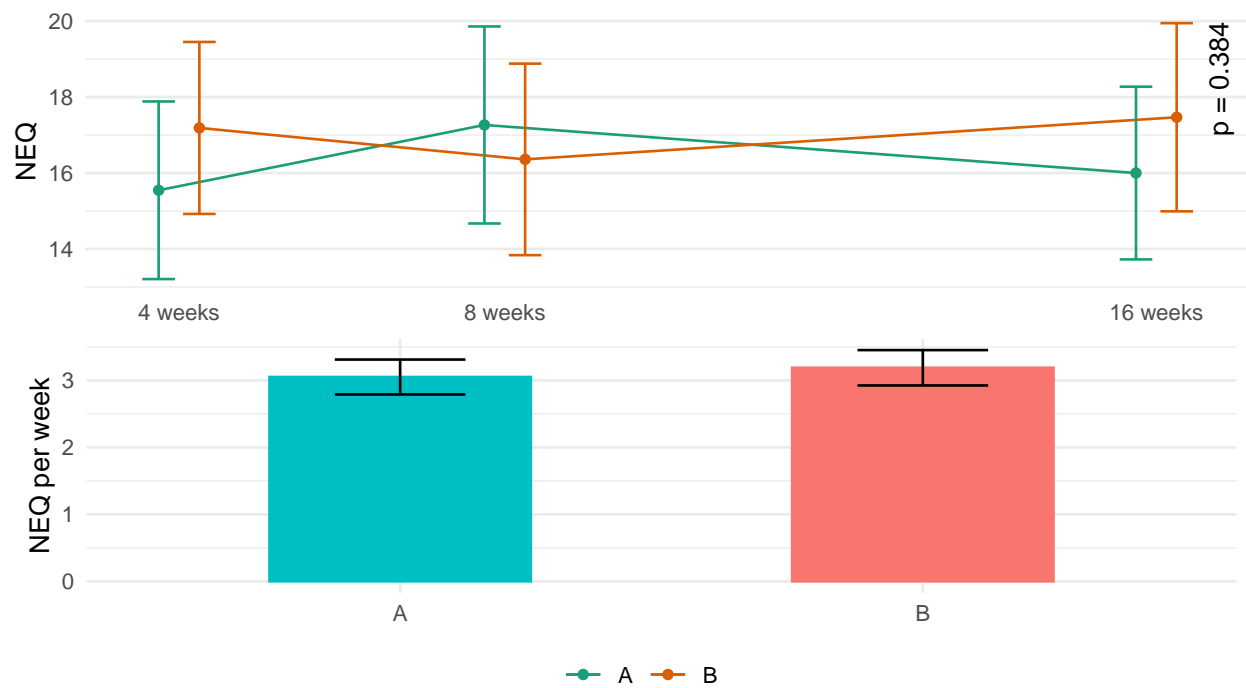


Figure 3 - Negative effects questionnaire



Supplemental Table 1 - Comorbidities

		B (n=64)	A (n=64)	Total (n=128)
Depressive disorders	Mild depressive episode (F32.0)	35 (54.7)	33 (51.6)	68 (53.1)
	Moderate depressive episode (F32.1)	33 (51.6)	30 (46.9)	63 (49.2)
	Severe depressive episode without psychotic symptoms (F32.2)	36 (56.2)	23 (35.9)	59 (46.1)
Anxiety disorders	Agoraphobia (F40.0)	36 (56.2)	33 (51.6)	69 (53.9)
	Social phobias (F40.1)	35 (54.7)	34 (53.1)	69 (53.9)
	Specific phobias (F40.2)	35 (54.7)	36 (56.2)	71 (55.5)
	Panic disorder (F41.0)	31 (48.4)	33 (51.6)	64 (50.0)
	Generalized anxiety disorder (F41.1)	32 (50.0)	34 (53.1)	66 (51.6)
Adjustment disorders	Acute stress reaction (F43.0)	30 (46.9)	28 (43.8)	58 (45.3)
	Post-traumatic stress disorder (F43.1)	39 (60.9)	30 (46.9)	69 (53.9)

Supplemental Table 2 - Psychopathological scores

Numbers from Figure 1

Supplemental Table 3 - Kidscreen-52

Tabllerne som ovenstående figur 1 bygger på.

- Physical well-being
- Psychological well-being
- Moods and emotions
- Self-perception
- Autonomy
- Parent relation and home life
- Peers and social support
- School environment
- Social acceptance (bullying)
- Financial resources

Supplemental Timeline

This timeline will, together with the commits to the version control system, function as a log of the statistical process

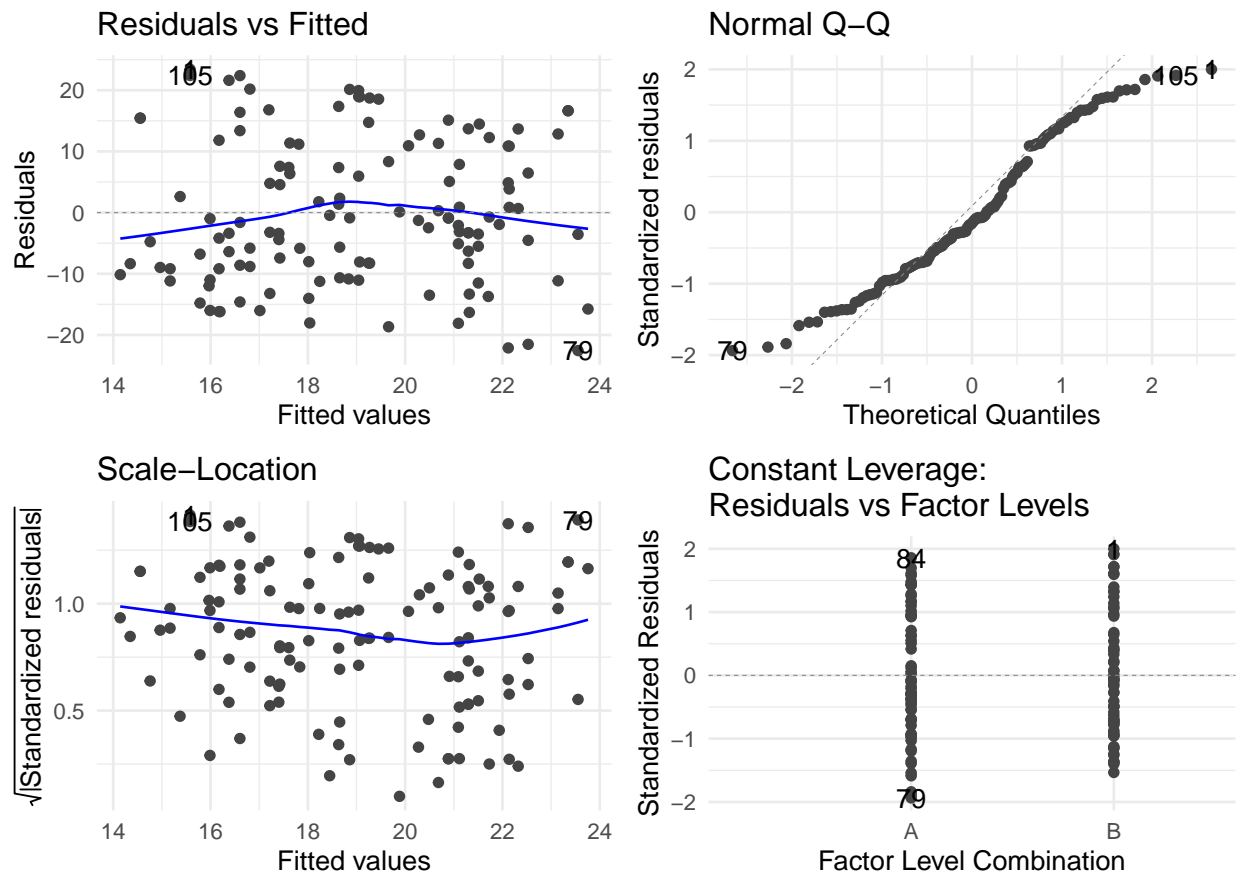
- 14.04.2021 - The work on the statistical report with simulated data has been initiated.
- 30.04.2021 - First evaluation of presentation of data using simulated tools.
- 03.05.2021 - Second evaluation of the statistical report.
- 11.05.2021 - Third evaluation of the statistical report.
- 14.05.2021 - Fourth evaluation of the statistical report.
- 19.05.2021 - Fifth evaluation of the statistical report.

Supplemental Assumptions

The assumptions for regression models will be assessed using four figures, for each variable.

1. *Residuals vs Fitted*. Used to check the linear relationship assumptions. A horizontal line, without distinct patterns is an indication for a linear relationship, what is good.
2. *Normal Q-Q*. Used to examine whether the residuals are normally distributed. It's good if residuals points follow the straight dashed line.
3. *Scale-Location* (or Spread-Location). Used to check the homogeneity of variance of the residuals (homoscedasticity). Horizontal line with equally spread points is a good indication of homoscedasticity.
4. *Residuals vs Leverage*. Used to identify influential cases, that is extreme values that might influence the regression results when included or excluded from the analysis.

CY-BOCS (primary)



KIDSCREEN-10 (secondary)

Lorem ipsum...

NEQ (secondary)

Lorem ipsum...

COIS (exploratory)

Lorem ipsum...

CGI-S (exploratory)

Lorem ipsum...

CGI-I (exploratory)

Lorem ipsum...

TAFQ-A (exploratory)

Lorem ipsum...

CGAS (exploratory)

Lorem ipsum...

TOCS (exploratory)

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