Stastical report for TEENS feasibility trial
Using simulated data

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13 marts 2021

Contents

Table 1 - Baseline characteristics

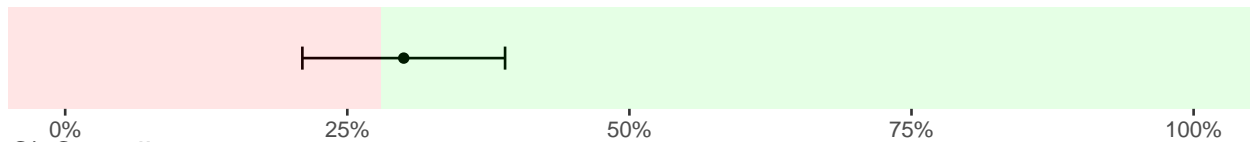|	A	B	Overall
n	15	15	30
dem_age (mean (SD))	16.13 (0.83)	15.64 (0.50)	15.90 (0.72)
dem_gender (%)			
Female	6 (40.0)	5 (33.3)	11 (36.7)
Male	3 (20.0)	2 (13.3)	5 (16.7)
Other	3 (20.0)	3 (20.0)	6 (20.0)
Transgender	3 (20.0)	5 (33.3)	8 (26.7)
dem_nationality (%)			
Danish	7 (46.7)	7 (46.7)	14 (46.7)
Other	4 (26.7)	5 (33.3)	9 (30.0)
Western	4 (26.7)	3 (20.0)	7 (23.3)
dem_school (%)			
Boarding school	3 (20.0)	4 (26.7)	7 (23.3)
High-school	3 (20.0)	5 (33.3)	8 (26.7)
Middle-school	6 (40.0)	2 (13.3)	8 (26.7)
No school	1 (6.7)	2 (13.3)	3 (10.0)
Other	2 (13.3)	2 (13.3)	4 (13.3)
dem_parents (%)			
Divorced	5 (33.3)	1 (6.7)	6 (20.0)
Married	7 (46.7)	6 (40.0)	13 (43.3)
Other	3 (20.0)	8 (53.3)	11 (36.7)

Missing data: dem_age: 3.3 %

Feasibility outcomes
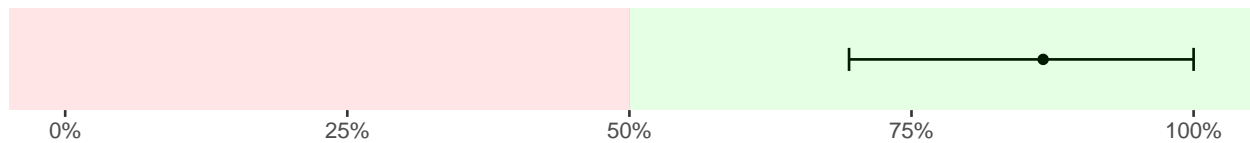
A) Completion of follow−up
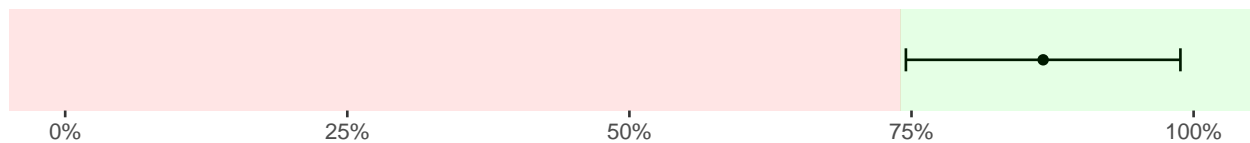
B) Eligible participants who consent to inclusion and randomization

C) Compliance

Outcome	Requirement	Fraction	LCL	UCL
A) Completion of follow-up	75%	87%	75%	99%
B) Eligible participants who consent to inclusion and randomization	29%	30%	21%	39%
C) Compliance	51%	87%	69%	100%

Table 1: Summarised results

	Overall	A	B
n	30	15	15
p_dshiy_0 (mean (SD))	252.93 (151.56)	267.53 (161.27)	238.33 (145.31)
p_dshiy_12 (mean (SD))	208.30 (146.21)	229.47 (168.28)	187.13 (122.47)

Table 2: Linear regression

	p-value
DSHI-Y	0.43586

Exploratory clinical outcomes

DSHI-Y (primary)

DSHI-Y will be filled out in both groups at baseline and follow-up, and during the intervention for the interventional group. DSHI-Y reflects the number of episodes of NSSI events. The results will be presented as one score.
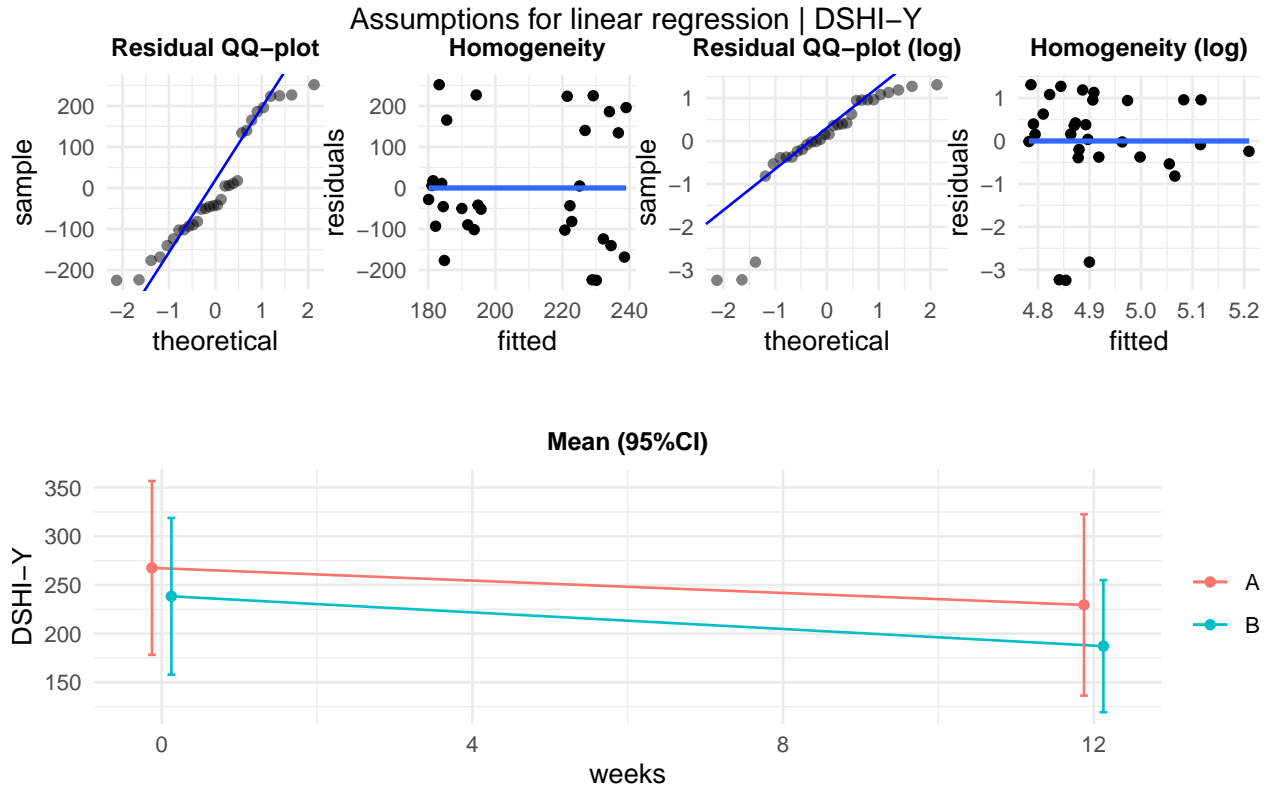
Table 3: Summarised results

	Overall	A	B
n	30	15	15
s_kidscreen10_HRQoL_0 (mean (SD))	1.87 (1.81)	2.26 (1.85)	1.48 (1.74)
s_kidscreen10_HRQoL_12 (mean (SD))	-1.98 (1.26)	-2.10 (1.37)	-1.87 (1.17)
s_kidscreen10_HRQoLt_0 (mean (SD))	56.41 (17.50)	60.20 (17.94)	52.63 (16.79)
s_kidscreen10_HRQoLt_12 (mean (SD))	19.12 (12.17)	18.03 (13.27)	20.21 (11.32)

Kidscreen-10 (secondary)

Kidscreen-10 will be filled out in both groups at baseline and follow-up. Kidscreen-10 has 10 questions where each question generates a score from 1 to 5. The results will be processed using the algorithm below:

- *RASCH PP = (10 = -4.327) / (11 = -3.206) / (12 = -2.675) / (13 = -2.319) / (14 = -2.049) / (15 = -1.831) / (16 = -1.645) / (17 = -1.483) / (18 = -1.339) / (19 = -1.207) / (20 = -1.085) / (21 = -0.971) / (22 = -0.863) / (23 = -0.760) / (24 = -0.660) / (25 = -0.563) / (26 = -0.468) / (27 = -0.374) / (28 = -0.281) / (29 = -0.187) / (30 = -0.093) / (31 = 0.002) / (32 = 0.100) / (33 = 0.199) / (34 = 0.302) / (35 = 0.409) / (36 = 0.520) / (37 = 0.637) / (38 = 0.760) / (39 = 0.891) / (40 = 1.031) / (41 = 1.183) / (42 = 1.348) / (43 = 1.529) / (44 = 1.732) / (45 = 1.961) / (46 = 2.226) / (47 = 2.545) / (48 = 2.951) / (49 = 3.533) / (50 = 4.703)*

(points = sub-score)

The results are presented using two indexes:

- **General HRQoL index** = RASCH PP
- **General HRQoL index international T-values** = (((RASCH PP - 1.2078) / 1.03377) * 10 + 50)

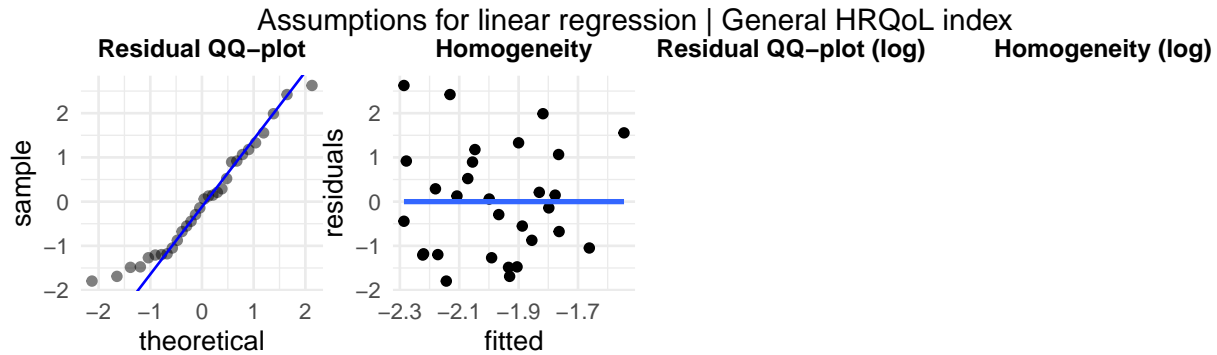**Results**

Assumptions for linear regression | General HRQoL index

Table 4: Linear regression

	p-value
General HRQoL index	0.74845
General HRQoL index international T-values	0.74845

Assumptions for linear regression | General HRQoL index international T−values
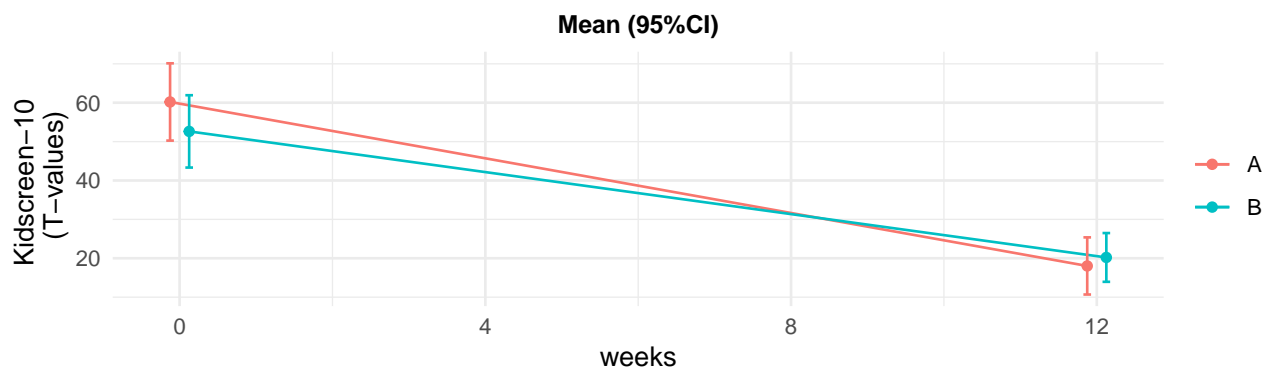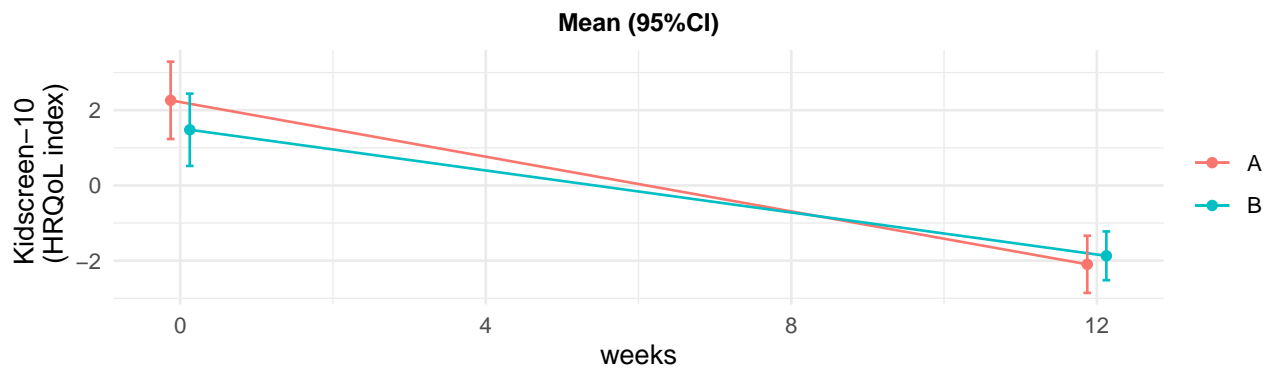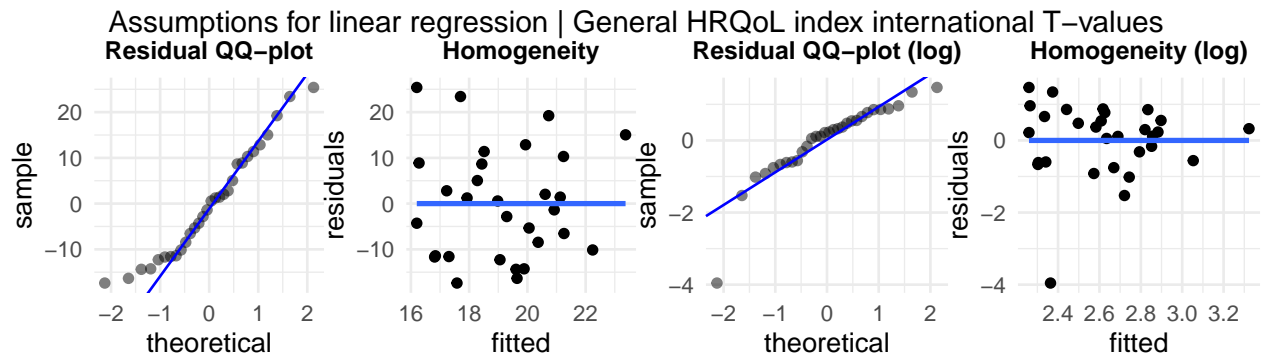
Table 5: Summarised results

	Overall	A	B
n	30	15	15
s_dass21_depression_0 (mean (SD))	10.43 (5.92)	10.67 (5.45)	10.20 (6.54)
s_dass21_anxiety_0 (mean (SD))	10.10 (6.51)	7.40 (5.93)	12.80 (6.09)
s_dass21_stress_0 (mean (SD))	10.93 (5.93)	11.27 (4.93)	10.60 (6.95)
s_dass21_depression_12 (mean (SD))	10.73 (6.03)	10.53 (5.58)	10.93 (6.65)
s_dass21_anxiety_12 (mean (SD))	8.73 (7.00)	7.20 (5.54)	10.27 (8.11)
s_dass21_stress_12 (mean (SD))	10.57 (6.76)	12.00 (6.99)	9.13 (6.42)

DASS-21 (secondary)
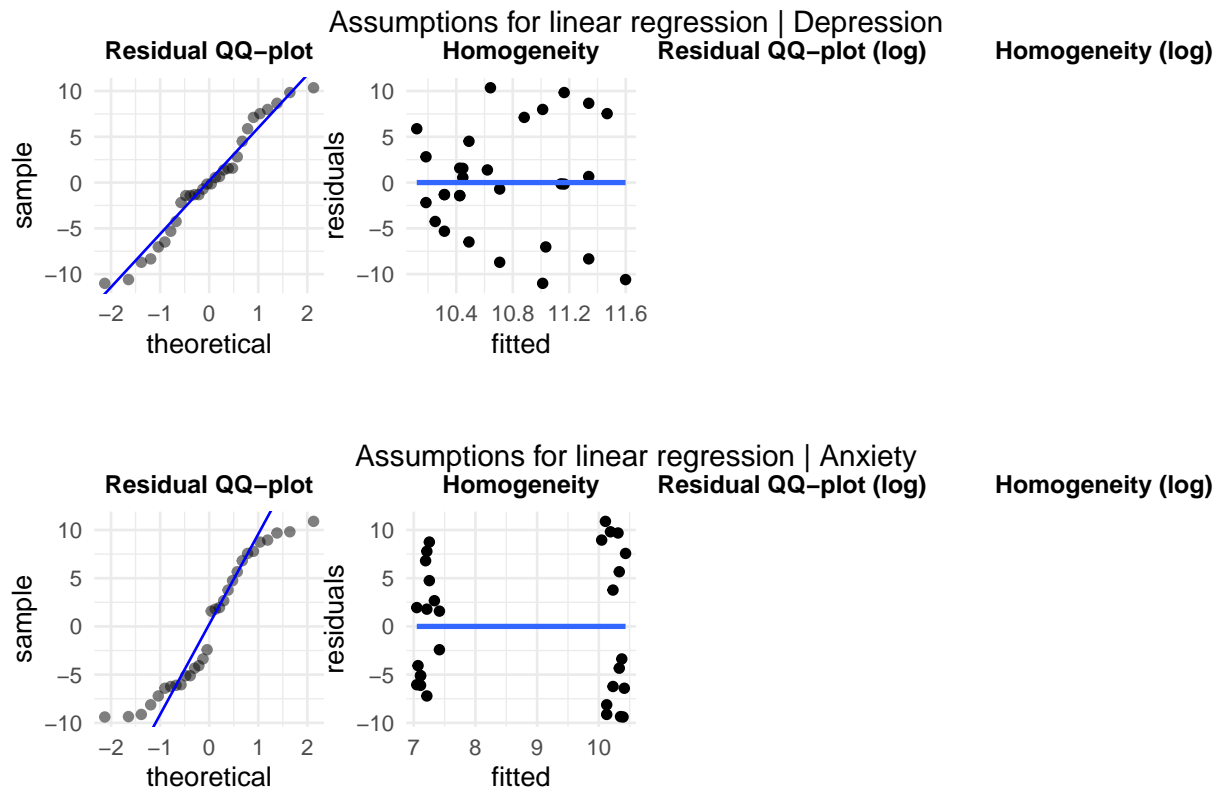
DASS-21 will be filled out in both groups at baseline and follow-up. DASS-21 has 21 questions where each question generates a score from 0 to 3. The results will be presented as sum-score for three scales:

- **Depression** = Q3 + Q5 + Q10 + Q13 + Q16 + Q17 + Q21
- **Anxiety** = Q2 + Q4 + Q7 + Q9 + Q15 + Q19 + Q20
- **Stress** = Q1 + Q6 + Q8 + Q11 + Q12 + Q14 + Q18
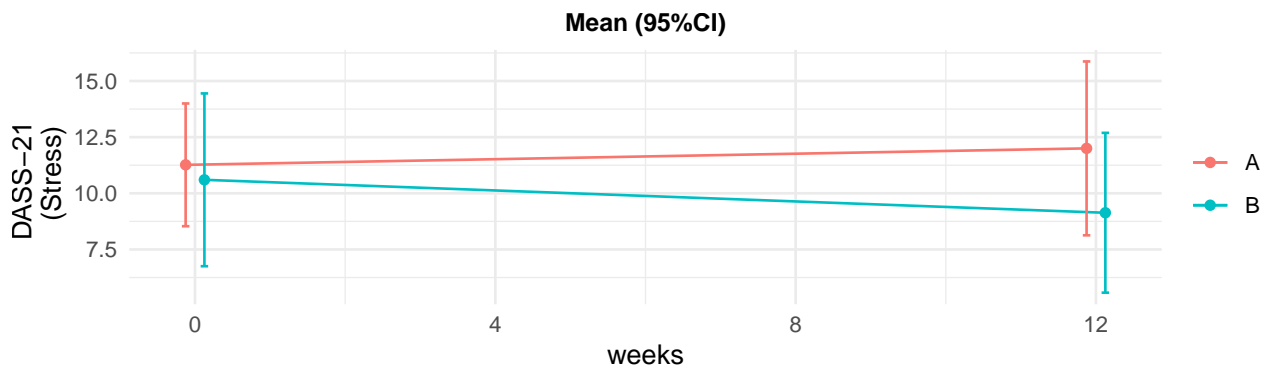
Q: Question

Results

Assumptions for linear regression | Stress

Residual QQ-plot **Homogeneity** **Residual QQ-plot (log)** **Homogeneity (log)**

Mean (95%CI)

Mean (95%CI)

Mean (95%CI)
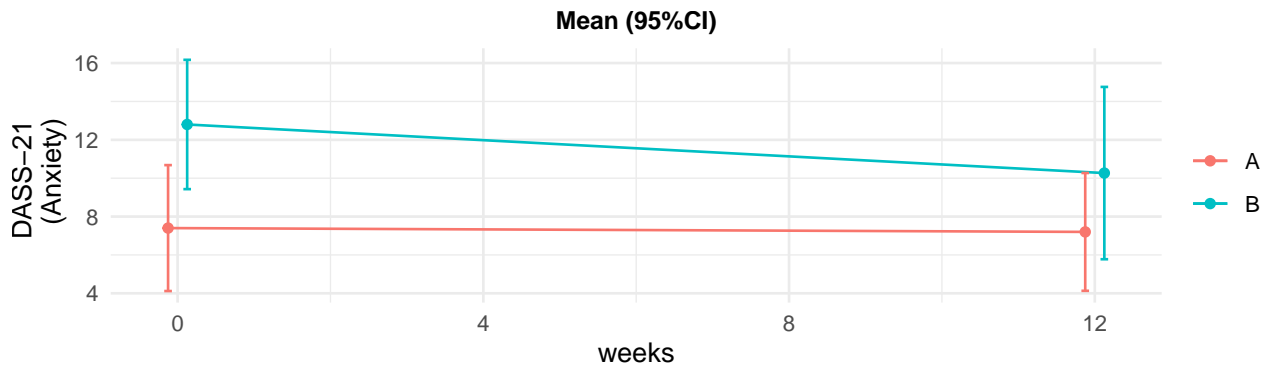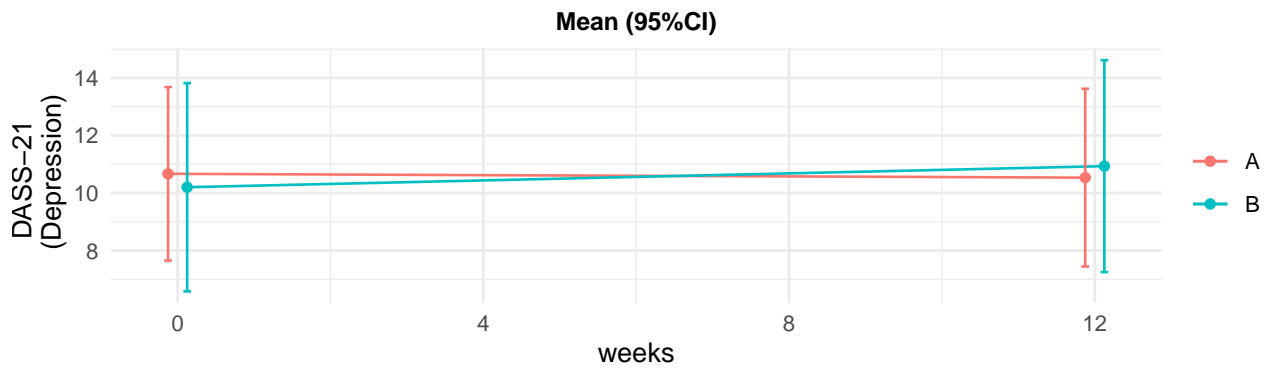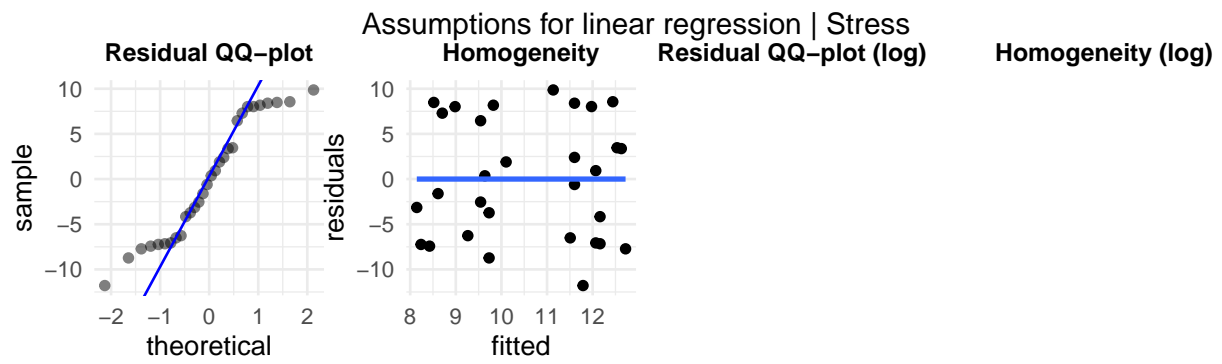
Table 6: Linear regression

	p-value
Depression	0.87241
Anxiety	0.30856
Stress	0.27022

Table 7: Summarised results

	Overall	A	B
n	30	15	15
e_ders16_0 (mean (SD))	52.70 (17.25)	46.07 (15.99)	59.33 (16.33)
e_ders16_12 (mean (SD))	47.87 (17.60)	55.60 (16.03)	40.13 (16.02)

DERS-16 (further)

DERS-16 will be filled out in both groups at baseline and follow-up, and every week during the intervention for the interventional group. DERS-16 has 16 questions where each question generates a score from 1 to 5. The results will be presented as one sum-score.

Results

Table 8: Linear regression

	p-value
DERS-16	0.04222

Table 9: Summarised results

	Overall	A	B
n	30	15	15
e_bsl_0 (mean (SD))	20.63 (14.74)	21.40 (15.13)	19.87 (14.84)
e_bsl_12 (mean (SD))	19.73 (14.51)	20.27 (13.36)	19.20 (16.04)

BSL-supplement (further)

BSL-supplement will be filled out in both groups at baseline and follow-up, and every week during the intervention for the interventional group. BSL-supplement has 11 questions where each question generates a score from 0 to 4. The results will be presented as one sum-score.
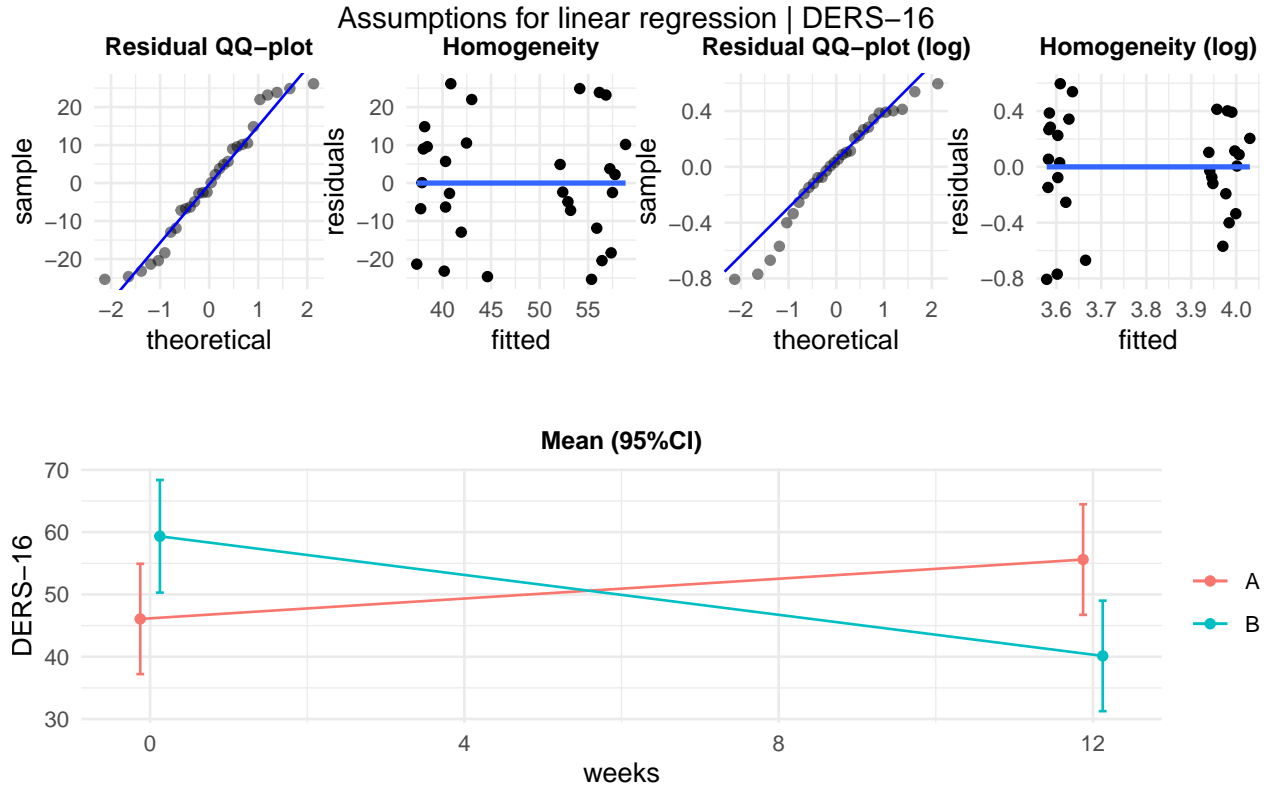
Results

Assumptions for linear regression | BSL–supplement

Mean (95%CI)
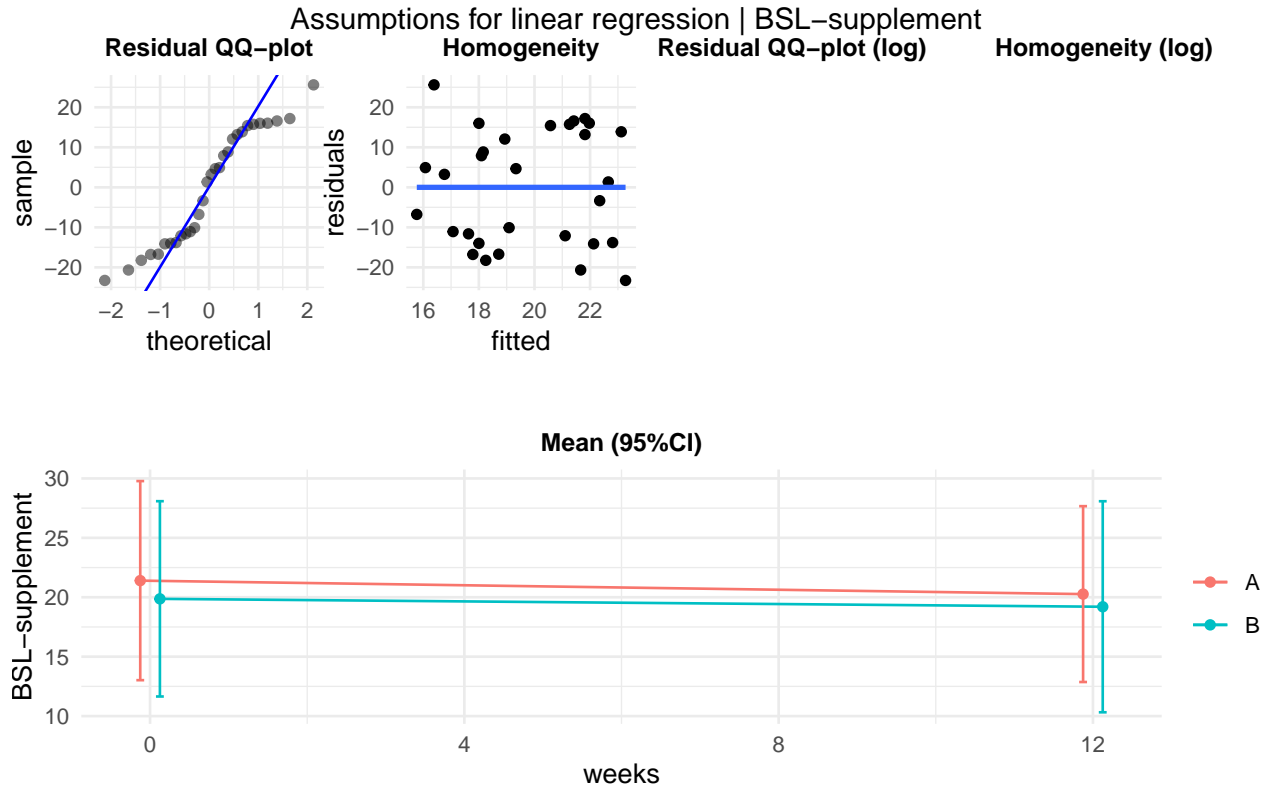
Table 10: Linear regression

	p-value
BSL-supplement	0.81187

C-SSRS (further / UNFINISHED)

C-SSRS will be filled out in both groups at baseline and follow-up, and every week during the intervention for the interventional group. C-SSRS has 16 questions where each question generates different score. The results will be presented as sum-scores for three scales:

- **Ideation** = Q1a + Q1b + Q1c + Q1d + Q1e?
- **Severity** = Q2a + Q2b + Q2c + Q2d?
- **Behaviour** = Q3 + Q4 + Q5a + ?

Table 11: Summarised results

	Overall	A	B
n	30	15	15
e_ccnesapp_distress_12 (mean (SD))	3.35 (1.20)	3.60 (1.46)	3.09 (0.84)
e_ccnesapp_punitive_12 (mean (SD))	3.25 (1.14)	3.16 (1.41)	3.34 (0.83)
e_ccnesapp_expressive_12 (mean (SD))	3.21 (1.10)	2.79 (1.02)	3.62 (1.06)
e_ccnesapp_emotion_12 (mean (SD))	3.62 (0.97)	3.57 (0.97)	3.67 (1.00)
e_ccnesapp_problem_12 (mean (SD))	3.39 (1.07)	3.49 (0.81)	3.30 (1.31)
e_ccnesapp_minimization_12 (mean (SD))	3.18 (0.87)	3.13 (1.02)	3.22 (0.72)

Table 12: Mann-Whitney U test

	Estimate (95% Confidence interval)	p-value
Distress reaction	0.6 (-0.4-1.5)	0.2131
Punitive reactions	0 (-0.9-0.8)	0.9503
Expressive encouragment	-0.8 (-1.6-0)	0.0534
Emotion-focused reactions	-0.1 (-0.9-0.6)	0.868
Problem-focused reactions	0.3 (-0.7-1.1)	0.6932
Minimization reactions	0.1 (-0.7-0.6)	0.7713

CCNES-APP (further)

CCNES-APP will be filled out in both groups only at follow-up. CCNES-APP has 9 main questions with 6 subquestions (a to f) for each. Each subquestion genertes a score from 1 to 7. The results will be presented as mean-score for six scales:

- **Distress reaction** = (Q1a + Q2d + Q3f + Q4d + Q5a + Q6b + Q7f + Q8a + Q9d) / 9
- **Punitive reactions** = (Q1e + Q2f + Q3b + Q4c + Q5e + Q6c + Q7b + Q8e + Q9c) / 9
- **Expressive encouragment** = (Q1b + Q2c + Q3e + Q4f + Q5b + Q6d + Q7e + Q8b + Q9e) / 9
- **Emotion-focused reactions** = (Q1c + Q2b + Q3c + Q4a + Q5c + Q6f + Q7d + Q8c + Q9a) / 9
- **Problem-focused reactions** = (Q1f + Q2e + Q3a + Q4b + Q5f + Q6e + Q7a + Q8f + Q9b) / 9
- **Minimization reactions** = (Q1d + Q2a + Q3d + Q4e + Q5d + Q6a + Q7c + Q8d + Q9f) / 9

Q: Question

Results

Table 13: Summarised results

	Overall	A	B
n	30	15	15
e_ccnesa_distress_12 (mean (SD))	3.29 (0.86)	3.16 (0.89)	3.42 (0.85)
e_ccnesa_punitive_12 (mean (SD))	3.80 (1.14)	3.83 (1.28)	3.77 (1.02)
e_ccnesa_expressive_12 (mean (SD))	3.20 (1.15)	3.09 (1.03)	3.31 (1.28)
e_ccnesa_emotion_12 (mean (SD))	3.76 (0.85)	3.87 (0.94)	3.65 (0.77)
e_ccnesa_problem_12 (mean (SD))	3.62 (0.94)	3.21 (0.64)	4.03 (1.03)
e_ccnesa_minimization_12 (mean (SD))	3.61 (0.94)	3.64 (1.03)	3.57 (0.88)

Table 14: Mann-Whitney U test

	Estimate (95% Confidence interval)	p-value
Distress reaction	-0.2 (-0.8-0.4)	0.4394
Punitive reactions	0.2 (-0.9-0.9)	0.8193
Expressive encouragment	-0.4 (-1.1-0.4)	0.318
Emotion-focused reactions	0.2 (-0.5-0.9)	0.5749
Problem-focused reactions	-0.8 (-1.5–0.1)	0.0249
Minimization reactions	0.1 (-0.7-0.7)	0.8355

CCNES-A (further)

CCNES-A will be filled out in both groups at baseline and follow-up. CCNES-A has 9 main questions with 6 subquestions (a to f) for each. Each subquestion genertes a score from 1 to 7. The results will be presented as mean-score for six scales:

- **Distress reaction** = (Q1a + Q2d + Q3f + Q4d + Q5a + Q6b + Q7f + Q8a + Q9d) / 9
- **Punitive reactions** = (Q1e + Q2f + Q3b + Q4c + Q5e + Q6c + Q7b + Q8e + Q9c) / 9
- **Expressive encouragment** = (Q1b + Q2c + Q3e + Q4f + Q5b + Q6d + Q7e + Q8b + Q9e) / 9
- **Emotion-focused reactions** = (Q1c + Q2b + Q3c + Q4a + Q5c + Q6f + Q7d + Q8c + Q9a) / 9
- **Problem-focused reactions** = (Q1f + Q2e + Q3a + Q4b + Q5f + Q6e + Q7a + Q8f + Q9b) / 9
- **Minimization reactions** = (Q1d + Q2a + Q3d + Q4e + Q5d + Q6a + Q7c + Q8d + Q9f) / 9

Q: Question

Results

NEQ (further / UNFINISHED)

NEQ will be filled out in both groups only at follow-up. NEQ has 20 questions, where every question has 5 sub-question. The results will be presented as sum, mean and standard deviations:

- **Frequency negative effects** = Q1a + Q2a + Q3a + Q4a + Q5a + Q6a + Q7a + Q8a + Q9a + Q10a + Q11a + Q12a + Q13a + Q14a + Q15a + Q16a + Q17a + Q18a + Q19a + Q20a *(Score from 0 to 1)*

- **Frequency negative effects from treatment** = Q1c + Q2c + Q3c + Q4c + Q5c + Q6c + Q7c + Q8c + Q9c + Q10c + Q11c + Q12c + Q13c + Q14c + Q15c + Q16c + Q17c + Q18c + Q19c + Q20c *(Score from 0 to 1)*

- **Frequency negative effects from other circumstances** = Frequency negative effects - Frequency negative effects from treatment

- **Frequency Factor 1 (Symptoms) from treatment** = . . .

- **Frequency Factor 2 (Quality) from treatment** = . . .

- **Frequency Factor 3 (Dependency) from treatment** = . . .

- **Frequency Factor 4 (Stigma) from treatment** = . . .

- **Frequency Factor 5 (Hopelessness) from treatment** = . . .

Table 15: Summarised results

	Overall	A	B
n	30	15	15
e_waisr_0 (mean (SD))	47.13 (24.64)	36.80 (21.90)	57.47 (23.43)
e_waisr_12 (mean (SD))	44.67 (19.39)	46.27 (20.18)	43.07 (19.14)

Table 16: Linear regression

	p-value
WAI-SR	0.65319

WAI-SR (further)

WAI-SR will be filled out in both groups at baseline and follow-up, and every week during the intervention for the interventional group. WAI-SR has 12 questions where each question generates a score from 1 to 7. The results will be presented as one sum-score.
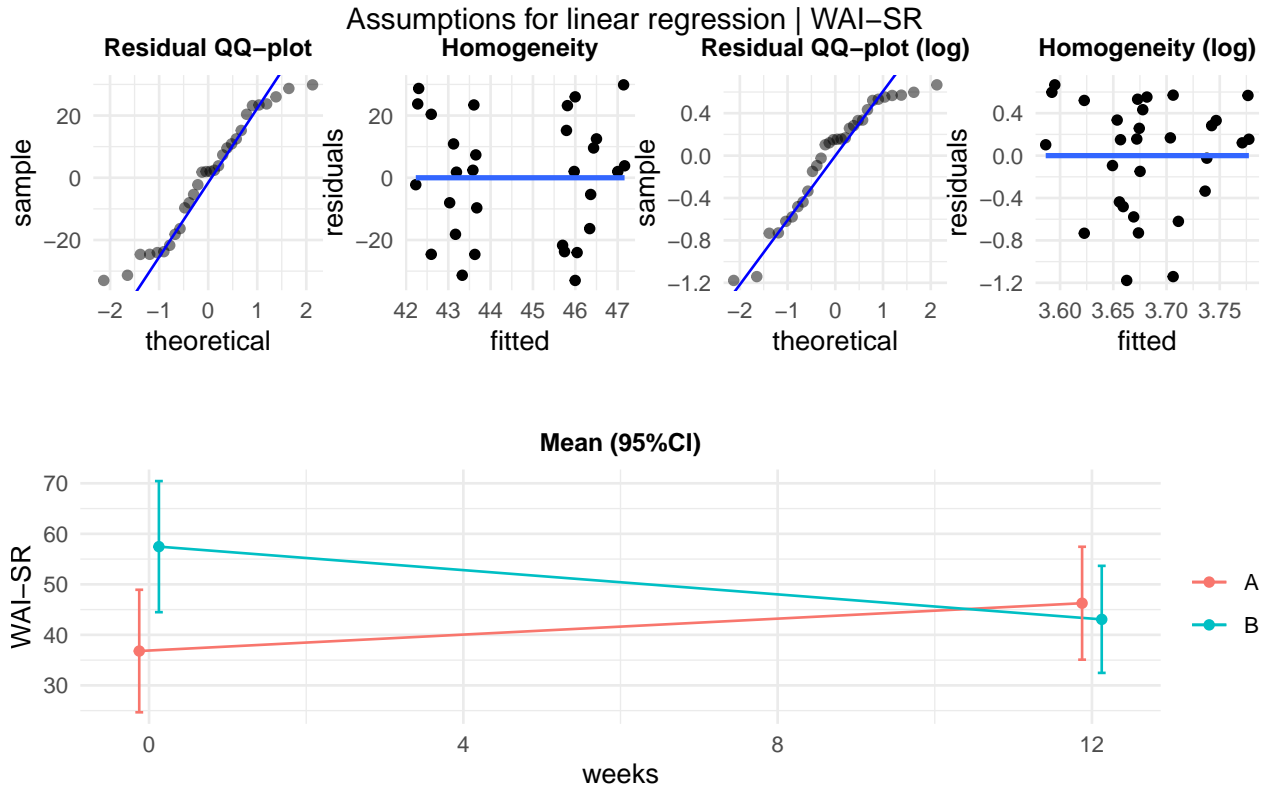
Results

Table 17: Summarised results

	Overall	A	B
n	30	15	15
e_sdq_emotion_0 (mean (SD))	4.33 (3.46)	4.67 (3.35)	4.00 (3.64)
e_sdq_adhd_0 (mean (SD))	4.77 (2.94)	3.93 (2.79)	5.60 (2.95)
e_sdq_companion_0 (mean (SD))	4.77 (3.66)	4.87 (3.76)	4.67 (3.70)
e_sdq_cd_0 (mean (SD))	5.87 (3.05)	5.20 (3.17)	6.53 (2.88)
e_sdq_prosocial_0 (mean (SD))	4.30 (2.63)	4.00 (2.33)	4.60 (2.95)
e_sdq_externalising_0 (mean (SD))	11.73 (6.10)	10.40 (6.33)	13.07 (5.75)
e_sdq_interalising_0 (mean (SD))	9.10 (4.99)	9.53 (5.03)	8.67 (5.08)
e_sdq_sum_0 (mean (SD))	19.73 (5.53)	18.67 (5.09)	20.80 (5.91)

Table 18: Mann-Whitney U test

	Estimate (95% Confidence interval)	p-value
Prosocial	0 (-3-2)	0.691
Emotion	1 (-2-3)	0.4903
ADHD	-2 (-4-1)	0.1178
CD	-1 (-4-1)	0.2493
Companion	0 (-3-3)	0.8508
Externalising	-2 (-8-2)	0.2493
Internalising	1 (-3-5)	0.6929
Sum	-2 (-7-2)	0.2528

SDQ (further)

SDQ will be filled out in both groups only at baseline. SDQ has 30 questions where the 25 first will be included for calculation. Each of these question generates a score from 0 to 2. The results will be presented as sum-score for 7 scales, and the total sum-score:

- **Prosocial** = Q1 + Q4 + Q9 + Q17 + Q20

- **Emotion** = Q3 + Q8 + Q13 + Q16 + Q24

- **ADHD** = Q2 + Q10 + Q15 + (2 - Q21) + (2 - Q25)

- **CD** = Q5 + (2 - Q7) + Q12 + Q18 + Q22

- **Companion** = Q6 + (2 - Q11) + (2 - Q14) + Q19 + Q23

- **Externalising** = CD + ADHD

- **Internalising** = Emotion + Companion

- **Sum** = Emotion + ADHD + Companion + CD

Results

Table 19: Summarised results

	Overall	A	B
n	30	15	15
e_ecrrc_anxiety_0 (mean (SD))	3.35 (0.94)	3.23 (1.00)	3.46 (0.89)
e_ecrrc_avoidance_0 (mean (SD))	3.61 (0.93)	3.56 (0.81)	3.65 (1.06)

Table 20: Mann-Whitney U test

	Estimate (95% Confidence interval)	p-value
Anxiety items	-0.2 (-0.9-0.5)	0.6328
Avoidance items	-0.1 (-0.7-0.6)	0.8353

ECR-RC (further)

ECR-RC will be filled out in both groups only at baseline. ECR-RC has 12 questions where each of these question generates a score from 1 to 7. The results will be presented as sum-score for two scales:

- **Anxiety items** = (Q1 + Q2 + Q3 + Q4 + Q5 + Q6) / 6
- **Avoidance items** = (Q7 + Q8 + Q9 + (8 - Q10) + (8 - Q11) + (8 - Q12)) / 6

Results