Statistical report for TEENS feasibility trial

Using simulated data

$31~\mathrm{maj}~2021$

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Baseline characteristics

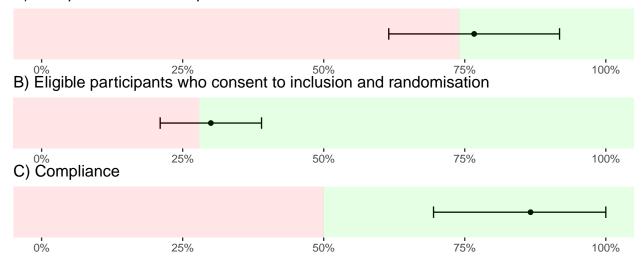
Baseline characteristics

	A	В	Overall
n	15	15	30
Age (mean (SD))	$16.13 \ (0.83)$	$15.64 \ (0.50)$	$15.90 \ (0.72)$
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)
Nationality (%)			
Danish	4 (26.7)	6 (40.0)	10 (33.3)
European/North American	3 (20.0)	2 (13.3)	5 (16.7)
Middle Eastern	3 (20.0)	6 (40.0)	9 (30.0)
Other	5 (33.3)	1 (6.7)	6 (20.0)
School (%)			
Boarding school	1 (6.7)	4 (26.7)	5 (16.7)
High-school	3 (20.0)	3 (20.0)	6 (20.0)
Middle-school	6 (40.0)	3 (20.0)	9 (30.0)
No school	2 (13.3)	2 (13.3)	4 (13.3)
Other	3 (20.0)	3 (20.0)	6 (20.0)
Parental status (%)			
Cohabitant	3 (20.0)	3 (20.0)	6 (20.0)
Divorced	5 (33.3)	5 (33.3)	10 (33.3)
Married	4 (26.7)	2 (13.3)	6 (20.0)
Other	3 (20.0)	5 (33.3)	8 (26.7)

Missing data: Age: 3.3 %

Feasibility outcomes

A) Completion of follow-up



Outcome	Requirement	Fraction	LCL	UCL
A) Completion of follow-up	75%	77%	62%	92%
B) Eligible participants who consent to inclusion and randomisation	29%	30%	21%	39%
C) Compliance	51%	87%	69%	100%

Exploratory clinical outcomes

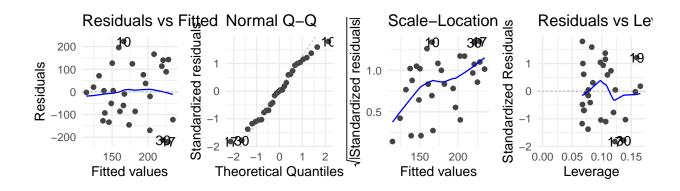
DSHI-Y (primary)

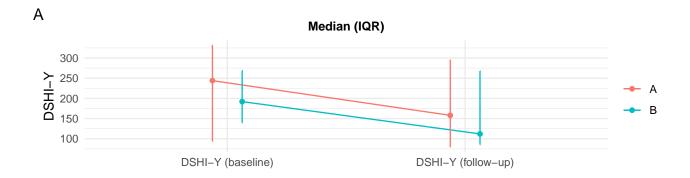
Data on non-suicidal self-injury (NSSI) as measured by DSHI-Y will be obtained in both groups at baseline and follow-up, and during the intervention for the interventional group. DSHI-Y reflects the number of NSSI events in the past month. The results will be presented as one sum score.

Results

Summarised results

	A mean (SD) [n]	B mean (SD) [n]	Overall
n	15	15	30
DSHI-Y (baseline)	210.93 (126.99) [15]	208.33 (107.99) [15]	209.63 (115.83)
DSHI-Y (follow-up)	$183.47 \ (127.14) \ [15]$	171.00 (134.16) [15]	177.23 (128.58)





	p-value
DSHI-Y	0.80463

Kidscreen-10 (secondary)

Data on Kidscreen-10 will be obtained in both groups at baseline and follow-up. Kidscreen-10 has 10 items which each generates a score from 1 to 5. The sum of the raw scores 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\ )
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(points = sub-score)

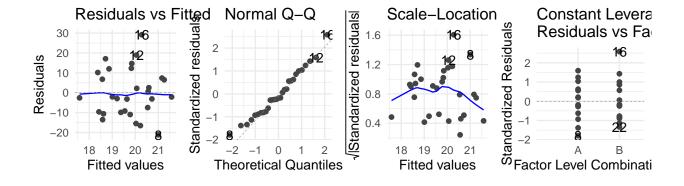
The results are presented using two scales:

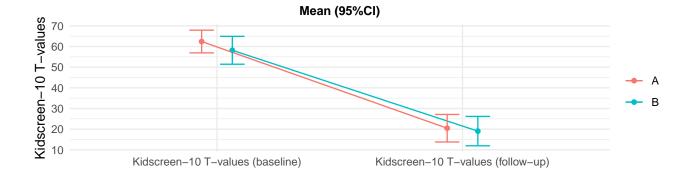
- General HRQoL index = RASCH PP
- General HRQoL index European T-values = (((RASCH PP 1.2078) / 1.03377) * 10 + 50)

Results

Summarised results

	A mean (SD) [n]	B mean (SD) [n]	Overall
n	15	15	30
Kidscreen-10 T-values (baseline)	$62.43 \ (9.51) \ [14]$	58.19 (12.19) [15]	60.23 (11.00)
Kidscreen-10 T-values (follow-up)	20.45 (11.54) [14]	19.05 (12.83) [15]	19.72 (12.03)





	p-value
Kidscreen-10 T-values	0.72449

DASS-21 (secondary)

Data on DASS-21 will be obtained in both groups at baseline and follow-up. DASS-21 has 21 items which each generates a score from 0 to 3. The results will be presented as sum-score for the following three subscales:

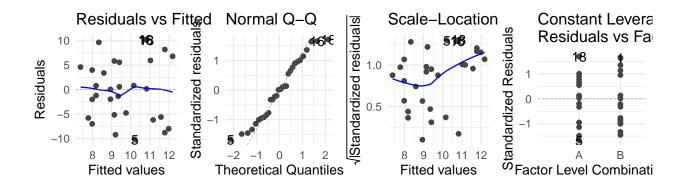
- **Depression** = I3 + I5 + I10 + I13 + I16 + I17 + I21
- Anxiety = I2 + I4 + I7 + I9 + I15 + I19 + I20
- Stress = I1 + I6 + I8 + I11 + I12 + I14 + I18

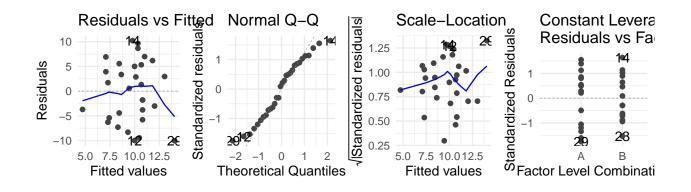
I: Items

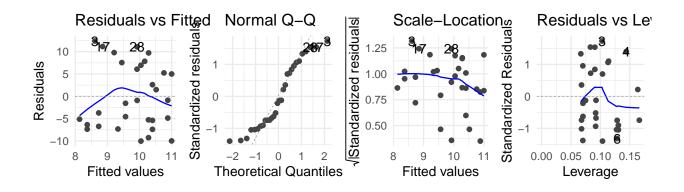
Results

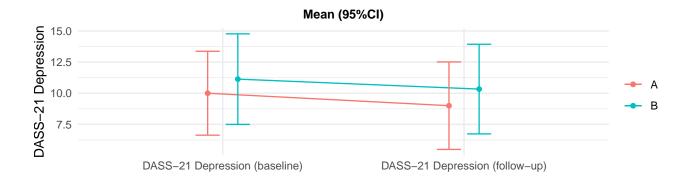
Summarised results

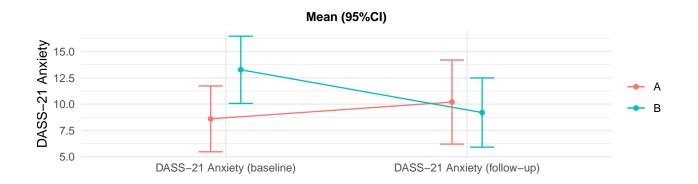
	A mean (SD) [n]	B mean (SD) [n]	Overall
n	15	15	30
DASS-21 Depression (baseline)	10.00 (6.08) [15]	$11.13 \ (6.57) \ [15]$	$10.57 \ (6.25)$
DASS-21 Anxiety (baseline)	8.60 (5.65) [15]	13.27 (5.78) [15]	10.93 (6.10)
DASS-21 Stress (baseline)	11.07 (6.89) [15]	10.87 (5.01) [15]	10.97 (5.92)
DASS-21 Depression (follow-up)	9.00 (6.35) [15]	$10.33 \ (6.50) \ [15]$	9.67 (6.35)
DASS-21 Anxiety (follow-up)	$10.20 \ (7.22) \ [15]$	9.20 (5.94) [15]	9.70 (6.52)
DASS-21 Stress (follow-up)	9.33 (7.83) [15]	$10.27 \ (7.05) \ [15]$	9.80 (7.33)

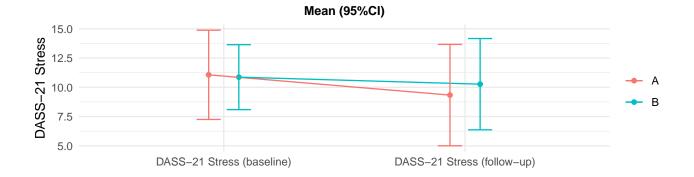












	p-value
DASS-21 Depression	0.51159
DASS-21 Anxiety	0.32147
DASS-21 Stress	0.73107

Self-injury (secondary)

Data on 'Self-injury' wil be obtained in both groups only at follow-up. 'Self-injury' is answered as either 'yes' or 'no'.

Summarised results	Summarised results		Summarised results
	A N (%) [n]	B N (%) [n]	Overall
n	15		30
Self-injury = Yes (%)	8 (53.3) [15]	9 (60.0) [15]	17 (56.7)

var		R	lcl	ucl	р
Self-injury	OR	1.31	0.31	5.75	0.713
Self-injury	RR	1.12	0.60	2.11	

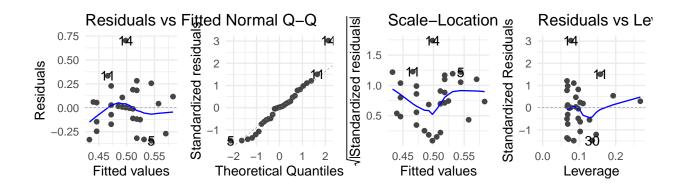
NB: Confidence intervals of RR are *Unconditional MLE & normal approximation (Wald) CI*, while the confidence intervals for RR will be obtained using marginal effects.

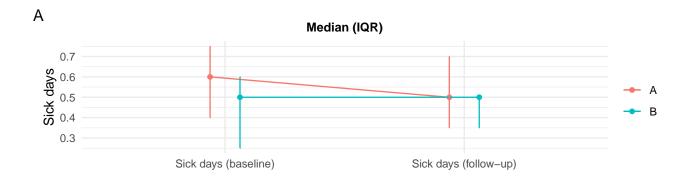
Sick days (secondary)

Data on 'Sick days' wil be obtained in both groups at baseline and follow-up. 'Sick days' will be presented as a ratio, where 0 refers to full student capacity.

Summarised results

	A mean (SD) [n]	B mean (SD) [n]	Overall
n	15	15	30
Sick days (baseline)	0.59 (0.29) [15]	$0.44 \ (0.22) \ [15]$	$0.51 \ (0.26)$
Sick days (follow-up)	$0.52 \ (0.22) \ [15]$	$0.48 \ (0.26) \ [15]$	$0.50 \ (0.24)$





	p-value
Sick days	0.52578

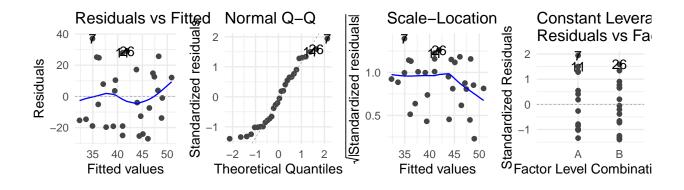
DERS-16 (further)

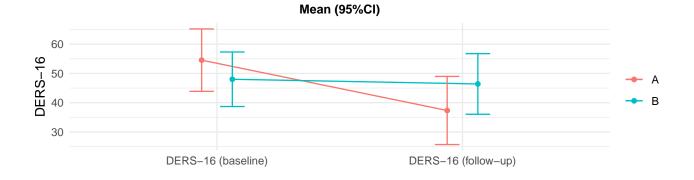
Data on DERS-16 will be obtained in both groups at baseline and follow-up, and during the intervention for the interventional group. DERS-16 has 16 items which each generates a score from 1 to 5. The results will be presented as one sum-score. The scores in this scale range from 16-80 with higher scores indicating greater emotion regulation difficulties.

Results

Summarised results

	A mean (SD) [n]	B mean (SD) [n]	Overall
n	15	15	30
DERS-16 (baseline)	$54.53 \ (19.25) \ [15]$	48.00 (16.82) [15]	51.27 (18.07)
DERS-16 (follow-up)	$37.33 \ (21.02) \ [15]$	46.40 (18.70) [15]	41.87 (20.09)





	p-value
DERS-16	0.19082

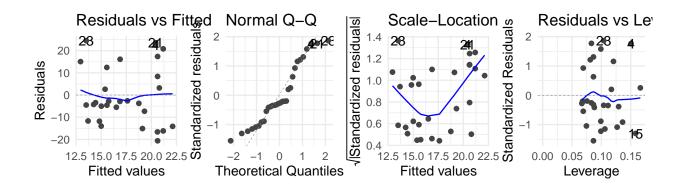
BSL-supplement (further)

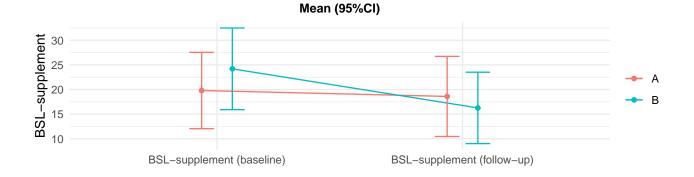
Data on BSL-supplement will be obtained in both groups at baseline and follow-up, and during the intervention for the interventional group. BSL-supplement has 11 items which each generates a score from 0 to 4. The results will be presented as one sum-score.

Results

Summarised results

	A mean (SD) [n]	B mean (SD) [n]	Overall
n	15	15	30
BSL-supplement (baseline)	19.80 (13.99) [15]	$24.20 \ (14.97) \ [15]$	22.00 (14.41)
BSL-supplement (follow-up)	18.60 (14.68) [15]	$16.27 \ (13.08) \ [15]$	$17.43\ (13.72)$





	p-value	
BSL-supplement	0.77085	

CCNES-APP (further)

Data on CCNES-APP will be obtained from the participants in both groups only at follow-up. CCNES-APP has 9 main items with 6 sub items (a to f) for each. Each sub item generates a score from 1 to 7. The results will be presented as mean-scores for the following six subscales:

- **Distress reaction** = (I1a + I2d + I3f + I4d + I5a + I6b + I7f + I8a + I9d) / 9
- Punitive reactions = (I1e + I2f + I3b + I4c + I5e + I6c + I7b + I8e + I9c) / 9
- Expressive encouragment = (I1b + I2c + I3e + I4f + I5b + I6d + I7e + I8b + I9e) / 9
- Emotion-focused reactions = (I1c + I2b + I3c + I4a + I5c + I6f + I7d + I8c + I9a) / 9
- Problem-focused reactions = (I1f + I2e + I3a + I4b + I5f + I6e + I7a + I8f + I9b) / 9
- Minimization reactions = (I1d + I2a + I3d + I4e + I5d + I6a + I7c + I8d + I9f)/9

I: Items

Results

Summarised results

	A mean (SD) [n]	B mean (SD) [n]	Overall
n	15	15	30
CCNES-APP Distress reaction (follow-up)	3.39 (1.06) [15]	3.33 (0.77) [15]	3.36 (0.91)
CCNES-APP Punitive reactions (follow-up)	3.79 (0.85) [15]	4.23 (0.79) [15]	4.01 (0.84)
CCNES-APP Expressive encouragment (follow-up)	3.67 (1.25) [15]	3.91 (1.08) [15]	3.79 (1.16)
CCNES-APP Emotion-focused reactions (follow-up)	3.52 (0.90) [15]	3.87 (1.19) [15]	3.69 (1.05)
CCNES-APP Problem-focused reactions (follow-up)	3.86 (1.28) [15]	3.78 (0.92) [15]	3.82 (1.10)
CCNES-APP Minimization reactions (follow-up)	3.41 (1.20) [15]	3.56 (0.83) [15]	3.49 (1.02)

Mann-Whitney U test

	Estimate (95% Confidence interval)	p-value
Distress reaction	0.3 (-0.4-0.8)	0.3825
Punitive reactions	-0.5 (-1-0.2)	0.2124
Expressive encouragment	-0.2 (-1-0.6)	0.5192
Emotion-focused reactions	-0.3 (-1-0.5)	0.406
Problem-focused reactions	0.2 (-0.9-1.1)	0.7082
Minimization reactions	-0.2 (-0.9-0.6)	0.6629

NEQ (further)

Data on NEQ will be obtained in both groups only at follow-up. NEQ has 20 items, with 5 sub-items The results will be presented as means and standard deviations:

• Frequency negative effects = I1a + I2a + I3a + I4a + I5a + I6a + I7a + I8a + I9a + I10a + I11a + I12a + I13a + I14a + I15a + I16a + I17a + I18a + I19a + I20a (Score from 0 to 1)

Summarised results

	A mean (SD) [n]	B mean (SD) [n]	Overall
n	15	15	30
NEQ Freq. negative effects	8.40 (6.14) [15]	9.53 (5.59) [15]	8.97 (5.80)

Mann-Whitney U test

	Estimate (95% Confidence interval)	p-value
NEQ Freq. negative effects	-1 (-6-3)	0.5465