Internet-assisted cognitive behavioural therapy with telephone coaching for anxious Finnish children aged 10–13 years: study protocol for a randomised controlled trial

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ABSTRACT

Introduction Childhood anxiety is common, causes significant functional impairment and may lead to psychosocial problems by adulthood. Although cognitive behavioural therapy (CBT) is effective for treating anxiety, its availability is limited by the lack of trained CBT therapists and easily accessible local services. To address the challenges in both recognition and treatment, this study combines systematic anxiety screening in the general population with a randomised controlled trial (RCT) on internet-assisted CBT (ICBT) with telephone coaching. Child, family and intervention-related factors are studied as possible predictors or moderators, together with the COVID-19 pandemic.

Methods and analysis The study is an open two-parallel group RCT, stratified by sex, that compares ICBT with telephone coaching to an education control. Children aged 10–13 are screened at yearly school healthcare check-ups using five items from the Screen for Child Anxiety Related Disorders (SCARED) Questionnaire. The families of children who screen positive for anxiety are contacted to assess the family’s eligibility for the RCT. The inclusion criteria include scoring at least 22 points in the 41-item SCARED Questionnaire. The primary outcome is the SCARED child and parent reports. The secondary outcomes include the impact of anxiety, quality of life, comorbidity, peer relationships, perceptions of school, parental well-being and service use. Additional measures include demographics and life events, anxiety disorder diagnoses, as well as therapeutic partnerships, the use of the programme and general satisfaction among the intervention group.

Ethics and dissemination The study has been approved by the research ethics board of the Hospital District of South West Finland and local authorities. Participation is voluntary and based on informed consent. The anonymity of the participants will be protected and the results will be published in a scientific journal and disseminated to healthcare professionals and the general public.

INTRODUCTION

Anxiety disorders are one of the most common childhood psychiatric disorders, with an estimated 6-month prevalence of 6%–18% among schoolchildren aged 6–14.1 They cause significant functional impairment at home, school and in social situations.2 If anxiety disorders remain untreated they may lead to severe mental health consequences, such as substance abuse, major depression and suicide attempts in adolescence or adulthood.3 These issues risk
adverse development, decreased readiness for work and marginalisation, causing a further economic burden on society.

Cognitive behavioural therapy (CBT) is an effective treatment for childhood anxiety disorders, but only a minority of children who need support are referred to appropriate services. There are several obstacles to getting appropriate treatment, such as a lack of resources, having to travel long distances to appointments and stigma. Alternative ways to deliver easily accessible, low-threshold treatment are needed. The ongoing COVID-19 pandemic has also highlighted the need for socially distanced health provision. Previous randomised controlled trials (RCTs) have found that digitally delivered CBT was superior when compared with a wait list control, treatment as usual or digitally delivered non-CBT programmes, and as effective as face-to-face CBT. However, most of the earlier studies only included children with diagnosed anxiety disorders, clinical populations and those who were recruited from the general population by advertisements. No previous studies have focused on the efficacy of internet-assisted CBT (ICBT) initiatives, following population-based screening of children with symptoms that indicate high levels of anxiety.

Conducting an intervention study based on systematic symptom screening in the general population has one great advantage. That is avoiding the selection bias that is inherent in studies based on clinical samples or cohorts recruited from advertisements. Systematic symptom screening, combined with an easily accessible treatment programme, creates novel opportunities. These including reaching those children whose symptoms have not been recognised or interpreted properly and families who have not contacted mental health services. This is extremely important when it comes to addressing the unmet needs of children with anxiety. For example, only 18% of the parents who took part in a Finnish study, and reported that their children, aged 8–9 years, had emotional symptoms, stated that the family had been in contact with a mental health provider.

The primary objective of this RCT is to evaluate the efficacy of an ICBT programme, with additional telephone coaching, for anxious children aged 10–13 years. The children will be recruited following screening for anxiety at routine, annual school health check-ups across selected areas of Finland. This initial screening will be based on five key items drawn from the Screen for Child Anxiety Related Disorders (SCARED) Questionnaire. We believe that this ICBT and telephone initiative will be superior to an education control. In addition, we will study the child, family and intervention-related factors that may mediate or moderate the treatment outcomes. The current global health emergency also provides us with an unprecedented opportunity to examine how the COVID-19 pandemic will affect the feasibility and efficacy of the socially distanced ICBT.

School healthcare screening for anxiety in children aged 10-13 years
* Geographic areas: cities of Tampere, Turku, Espoo, Orivesi and counties of North Karelia and Central Ostrobothnia
* Screen positive: scoring a total of ≥3 or 2 for one item using a 5-question screening instrument

Assessed for eligibility (planned n=1 000)1
* Recruitment call: exclusion criteria
* Informed consent / assent
* Inclusion: scoring ≥2 on SCARED child questionnaire
* Baseline – child and parent reports

Randomization 1:1 (planned n=420)2

Allocated to ICBT (n=210)2
* 6 months after randomization (estimated n=147)4

Allocated to education control (n=210)2
* 6 months after randomization (estimated n=147)4

Follow up3

Figure 1 Flow chart of the planned study. ICBT, internet-assisted cognitive behaviour therapy; SCARED, Screen for Child Anxiety Related Disorders.

METHODS AND ANALYSIS
Study type and design
The study is an open two-parallel group RCT stratified by sex, which compares the ICBT plus telephone coaching to an active comparator, that is, educational control providing psychoeducation on childhood anxiety. Both groups will receive treatment as usual. The education control was considered an ethical choice, as most children with anxiety symptoms get no treatment at all. If treated, the treatment commonly includes a supportive contact with a professional, such as a psychologist or a psychiatric nurse. In more severe cases, when the diagnostic criteria are reached, different forms of psychotherapy or medication may be used. All forms of additional treatments will be controlled for in the analyses. The flow chart for the study is presented in figure 1.

Screening phase
The study population consists of the children aged 10–13 years, in grades 4–6, who attend comprehensive schools in the Finnish cities of Turku, Tampere and Orivesi and the counties of North Karelia and Central Ostrobothnia. It also includes children aged 11–13, from grades 5–6, in the city of Espoo. We chose early adolescence for this study, as this developmental phase entails a significant increase in the occurrence of anxiety disorders and symptoms. The screening started in August 2017 in Turku, in January 2018 in North Karelia, in March 2018 in Tampere and Orivesi and in August 2018 in Espoo and Central Ostrobothnia.
During the annual routine school healthcare check-up, the child’s anxiety symptoms are assessed with a short screening instrument that includes altogether five items based on the 41-item SCARED child report. The school nurse administers the questionnaire to each child. The study group chose one statement from each of the five SCARED subscales: general anxiety (I am nervous), separation anxiety (I get scared if I sleep away from home), panic disorder (when I get frightened, I feel dizzy), school phobia (I am scared to go to school) and social anxiety (I feel nervous when I am going to parties, dances or any place where there will be people that I do not know well). Each item is scored zero for not true or hardly ever true, one for somewhat true or sometimes true and two for very true or often true. The selection was based on a Finnish epidemiological study (N=342) of children aged 11–13 years. The statements with the highest sensitivity for predicting possible anxiety disorder were chosen, based on the total SCARED Score. Pearson’s correlation coefficient between the 5-item screening scale and the 41-item SCARED child report was 0.77. It was not possible to use the full questionnaire because of time constraints during the school health check-ups.

About 1 week before the check-up, the parents receive information about the study via an internet-based application that school personnel use to communicate with parents. The parents then provide informed consent, so that the study team can contact them and their child’s data can be used. Reminders will be sent if the parents do not respond and they will also be given the chance to talk to the study team if they have any queries. They will also be urged to inform the child about the study in advance. Children will provide written, informed assent during the healthcare check-up and receive verbal information on the study from the school nurse. The children have a possibility to ask questions on the study, and the symptoms they report are further discussed with the nurse. The nurses are carefully educated on anxiety and the study before the trial starts, and they have regular contact with the local study nurses to address any questions they may have.

The study team conducts a recruitment call for the families who give permission if the children have a total score of three or more points, or two points for any of the five items. These indicate having a number of symptoms sometimes or one symptom often. They will be informed about the study protocol and offered the chance to have an eligibility assessment.

Exclusion criteria
The exclusion criteria includes no internet access, insufficient Finnish or Swedish language skills and visual or hearing impairments that hinder the use of the programme. Families will be excluded if the child has an intellectual disability, autism spectrum disorder, suicidal intentions or a severe mental health disorder, such as severe depression or eating disorder. We will also exclude children with ongoing psychotherapy, or therapy due to start within about 6 months. Children who have been on the same dose of the same anxiety medication for 2 months or more will not be excluded, but if their medication has changed in any way in the last 2 months they will not be able to take part. Families who are involved with child protection services with regard to child custody and abuse investigations will also be excluded, as will parents with severe psychiatric or somatic diseases or any other factors that would hinder their active participation.

Inclusion criteria and baseline
After informed consent and assent, the children fill in the 41-item SCARED report, which has a possible total score of 82, on a secure web site. If they score at least 22 points, their parents proceed to the digital baseline assessment. The cut-off score was selected to be in line with the preventive focus of the study. It was determined based on data of an earlier epidemiological study conducted in our research centre and the aim is to catch 25% of the children with the highest anxiety scores. The measures that are used at baseline, during the intervention and at follow-up, have been shown to be reliable in international studies and were translated back and forth according to good research practice.

Sample size
The sample size and power of the study were calculated with the two-sample t-test and assumed equal variance for the total SCARED Score. With 147 subjects in both treatment groups we expect to detect a mean difference of 3.0 (SD 8.5) between the intervention and education control groups with an 85% power and using two-sided significance level of 0.05. This equates to the between-group effect size of Cohen’s d=0.35, which is considered in general to be fairly moderate, but very common in similar RCT studies on psychotherapy interventions. Allowing for 30% attrition over time in both groups we will require 210 participants randomised into each group.

Randomisation and blinding
Two separate randomisation sequences, by sex, are generated with a 1:1 ratio for the intervention versus education control using a computerised random permuted block sequence generator, SAS V.9.4). Concealed block sizes are used to ensure the study staff are blinded. A sequential, double envelope system, labelled and colour-coded according to sex, is used to conceal the individual placements. As each boy or girl enters the study, the next envelope for that sex is selected, their allocated group is recorded and they are advised by email. If two or more children from the same family are participating in the study, all siblings are allocated to the same study group that the first child was placed in. The study statistician creates the randomisation code using only letters ‘A’ and ‘B’ for the two groups. She stays blinded to the treatment groups until the randomisation expert opens the coding after blinded primary analyses at the end of the study, that is, reveals the treatment groups. The randomisation expert is responsible for the technical randomisation.
process and the envelopes. Neither the statistician (SH-Y-S) nor the randomisation expert (ASi) are directly involved in conduct of the study though they are part of the study team.

Measures
A summary of the measures used is presented in table 1.

Primary outcome
The primary outcome measure is the 41-item SCARED (child and parent report), which screens the child’s anxiety symptoms during the last 3 months. Each item is scored zero for not true or hardly ever true, one for somewhat true or sometimes true and two for very true or often true. This generates a maximum score of 82. SCARED has been evaluated by several studies and proven to be a reliable tool for assessing childhood anxiety. In a Finnish study, the internal consistency was $\alpha=0.92$ for the child report and $\alpha=0.90$ for the parent report. As the concordance between these two reports on anxiety tend to vary from low to moderate, and the use of multiple informants is generally recommended, SCARED measures are used as separate primary outcomes. The subscales on general anxiety, separation anxiety, panic disorder, school phobia and social anxiety are analysed as secondary outcomes.

Secondary outcomes
The 27-item Child Anxiety Impact Scale assesses what effect the child’s anxiety has on daily life at home, school and with friends. The internal consistency of the total scales and subscales have varied from $\alpha=0.70$ to $\alpha=0.90$. The 24-item Revised Children Quality of Life Questionnaire measures health-related quality of life and has six subscales: physical, psychological, self-esteem, family, social life and school. The scores are transformed into a
0–100 scale. Cronbach’s alpha coefficients for the scales have ranged from α=0.63 to 0.84.26

Comorbid symptoms
The children fill in the 27-item Child Depression Inventory that screens for the child’s depressive symptoms (α=0.840).27

The parents fill in the extended 25-item Strengths and Difficulties Questionnaire28 to assess the child’s symptoms and positive attributes. The questionnaire has five subscales: emotional symptoms, hyperactivity-inattention, conduct problems, peer problems and prosocial behaviour (α=0.840).29 The extended version includes an supplement that provides further information about the child’s possible problems, such as chronicity, distress, social impairment and burden on others.

Peer relationships and perceptions of school
Three questions explore the child’s experiences of being bullied during the last 6 months: They are asked whether and how often they have been bullied at school, outside the school time, or in the internet, and whether bullying was physical, verbal or ignoring and leaving out on purpose. Additionally, they are asked whether they have told someone about it, such as a parent, a teacher, another adult or a friend. Perceptions of their school include their feelings about whether the teachers care about them, and whether they feel safe and social cohesion at school. The measures were created by the study group.

Parental well-being
The parents complete the 21-item Depression Anxiety and Stress Scale Short Form (DASS-21) (α=0.90)30 31 to identify those three issues. Parental resilience is assessed by the six-item Brief Resilience Scale (α=0.80–0.91).32

Service use
The Customised Client Service Receipt Inventory Questionnaire for parents33 assesses the child’s use of school support services and social and healthcare services.

Additional measures
Demographics
The parents answer questions about the child’s gender and age, family structure, languages spoken by the family, parental occupation, education and employment status and family income. Summarised demographic and baseline variables will be presented for the two groups.

Life events
The parents provide information on whether the child has been exposed to parental divorce or separation, unemployment, a significant deterioration in household finances or the death or severe illness of any parents or siblings during the past 6 months.

Anxiety diagnoses
The Development and Well-Being Assessment (DAWBA), designed to generate psychiatric diagnoses of children aged 2-17,34–36 is applied at baseline. The child and parental reports will be used to assess possible child anxiety disorders. The assessment is only administered at follow-up for the intervention group, to keep the number of items reasonable for the control group, due to the concise psychoeducational material they receive. This ensures sufficient participation at follow-up.

Quality of the therapeutic alliance with the coach
Children and their parents both fill in the 12-item Working Alliance Inventory—Short Revised37 after ICBT modules three, six and nine.

Use of the programme
The time each child and parent spend on the website is downloaded using appropriate time-out values, including the percentage of primary screens that the participants visit.

Satisfaction
Each week, the children and their parents are asked five questions regarding satisfaction and 15 questions about the usability of the programme when it finishes. After completing the ICBT, children and their parents fill in the eight-item Client Satisfaction Questionnaire.38 This information will provide data on general satisfaction of the participants, and enable further development of the intervention and the platform.

Register-Based data
Long-term psychiatric and somatic outcomes are studied with data from the nationwide Finnish registers. These provide admission and discharge dates and primary diagnoses based on International Classification of Diseases ICD—Tenth Revision. The registers cover all specialist inpatient wards and outpatient clinics, primary healthcare, private and prison hospitals and military wards. Reporting is mandatory and the registers are maintained in accordance with national laws. All citizens have a personal identity code, which allows linkages between the register data and data collected at baseline and follow-up. Informed consent for the use of register data is covered by a separate question that stresses that refusing will not prevent families from taking part in the study.

Treating subjects
Description of the ICBT intervention
The intervention was developed by the multidisciplinary study group, which consists of child psychiatrists, psychotherapists, clinical psychologists, coaches who deliver the intervention and information technology professionals. It is based on the components that have been most commonly applied in well-established studies on the efficacy of CBT for different anxiety disorders.39 The intervention targets both the child and the parents, because parental inclusion may lead to additional benefits, such as higher parental acceptability and long-term maintenance of treatment gains.39 41 The intervention was piloted among a small group (n=10) of children with clinically
diagnosed anxiety, and was further developed based on their feedback. The feedback from the participants in the pilot study was very good in general, and only minor technical revisions and slight changes to the scripts of the coaches were made.

The treatment comprises nine internet-based modules, which include digital material for the parent and child, and weekly calls from their coach (Table 2).

| Theme | Content |
|-------|---------|
| Introduction | Presenting the intervention and tools |
| Theme 1. Learn to know anxiety | Psychoeducation (anxiety, fears, cognitive behavioural therapy) |
| Theme 2. Deep breathing | Breathing techniques, practising exposure |
| Theme 3. Encouraging thinking | How to recognise and change negative thoughts, parents' modelling behaviour |
| Theme 4. Relaxation | Learning how to relax, positive parenting |
| Theme 5. Safe place | Learning to use imaginary techniques |
| Theme 6. Anxiety Ladders | Gradual exposure |
| Theme 7. Learn by practising | Gradual exposure |
| Theme 8. Control your anxiety | Summary of the child's and the parents' skills |
| Theme 9. Long-term plan | Maintenance plan, preventing setbacks |
| Booster phone call after 1 month | Follow-up on skill practising |

Weekly themes 2–5 look at anxiety management skills, such as cognitive restructuring and relaxation techniques. The parents also learns parenting skills, such as positive modelling, reinforcing the child’s brave behaviour and ignoring the child when they complain about their anxiety. Weekly themes 6–8 focus on gradual exposure, by using the most helpful anxiety management skills. To increase the child’s motivation and commitment, these focus on the situations that they have chosen (Figure 4).

The last theme is about making a long-term plan, to prevent setbacks by sustaining the skills learnt during the intervention. The child is encouraged to share their plan with the coach. They then work together to ensure that the child will know what to do if they have any setbacks. The families receive a booster call approximately 1 month after finishing the treatment and they can use the web-based material for 2 years after they started the programme.

The coaches are healthcare professionals, such as public health and psychiatric nurses with special training to deliver internet-assisted cognitive-behavioural interventions. The training includes a 2-week face-to-face training including theory on anxiety and cognitive-behavioural therapy. Additionally, independent reading and pairwise practicing theme by theme, supplemented with recordings and supervision, is required. The same coaches have earlier delivered an internet-assisted parent-training programme during an RCT and an implementation phase. They receive weekly supervision from a team including, for example, clinical psychologists and...
psychotherapists. They review the progress made by the child and parents, introduce new skills, help solve problems and provide support and encouragement. The programme content, including the telephone calls, is structured so that all the families get the same treatment. Telephone calls are recorded to ensure the fidelity and quality of the treatment and the participants are informed about this at the start of each call.

Psychoeducational control
Participants randomised to the education control receive digitally delivered psychoeducation about anxiety. The parents and the children get their own material. The psychoeducational material was developed by the same multidisciplinary group that developed the intervention. After the randomisation, the families who are allocated to the control group, get an automated email with a link directing them to the psychoeducational material on the platform. The content includes the following topics for both the child and the parent: what is normal and abnormal anxiety, how anxiety manifests, anxiety as a part of the child’s development, aetiology of excessive anxiety. The child’s content also includes material on encouraging thinking, healthy life habits and help seeking. Parental content also includes material on how to encourage, motivate and support the child, show positive example, and take care of your own well-being. The content for the psychoeducational control group is more condensed than for the intervention group, and does not include audio clips, videos, or phone calls.

The digital platform
The web application was designed and developed with a local third-party software developer. It uses Django, which is an open-source web framework written in Python. It was developed to meet the current needs of the study, but provides the opportunity to extend capabilities to meet future ideas, such as augmented reality and virtual reality technology for practising gradual exposure in a safe environment.

The application can be accessed in different ways by the coaches, parents and children. Parents have access to the child’s material and tools, but cannot add any entries. If two parents are involved, both are asked to fill in their own surveys. Coaches can view the participants’ profiles, material and tools and the scripts for the telephone sessions.

The application makes sure that the participants go through all the steps in the right order. It automatically sends emails on practical issues, such as the randomisation result and the timing of the follow-up surveys. When the parent and children log in, the application automatically directs them to any surveys they need to complete.

Data management
All data gathered via the electronic platform are stored in PostgreSQL database. After collection period is completed, data will be imported to SAS datasets (.sas-files) for statistical analysing and reporting. Metadata will be stored in spreadsheets (.xlsx-files). We will create a data dictionary which provides guiding principles for dataset and variable construction, as well as study specific information. All source datasets from different data sources will be imported to SAS datasets with programmes that follow guidelines in data dictionary. Code books will be created to document (that is, variable names, labels, types and formats) the contents of SAS datasets. In order to ensure that statistical analyses are conducted on data of acceptable quality, quality control procedures will be implemented.

All baseline questionnaires are filled using electronic platform, which forces participants to fill in all required fields. Platform does not allow selecting multiple choices in likert-type questions. In follow-up phase, participants are given an option to fill in the questionnaires using the electronic platform or paper version. Paper versions are manually digitalised using Microsoft Access. To ensure the consistency of data layout of Access templates, they are made similar as the paper questionnaire. Personnel digitalising paper questionnaires follow predefined guidelines on how to handle unclear answers (ie, multiple answers selected, selection made between two answers etc). All collected survey data are stored on the fileservers of University of Turku. Files are secured by automatic daily backups. Backups are kept for 26 weeks. Data are stored on fileservers with limited access. Only appointed researchers, statisticians and data manager are given access to the data.

Statistics
All demographic and baseline variables will be presented with summary statistics for intervention and education control groups separately. Frequencies and percentages will be calculated for categorical variables. Means, SD, minimum and maximum values will be calculated for continuous variables. Pearson’s $\chi^2$ test or Fisher’s exact test will be conducted to explore differences in categorical variables at baseline between the children and parents in the intervention and in the education control. Student’s
t-tests will be used to explore differences in continuous variables between the groups at baseline.

The primary outcome measure is the total score of the 41-item SCARED child and parent report. These will be collected at the baseline prior to randomisation (‘baseline’) and 6 months after randomisation (‘follow-up’). We will analyse the SCARED total scores at the follow-up with PROC MIXED in SAS using linear mixed models, adjusting for baseline SCARED total score and having the stratifying factor sex as a covariate. In addition, changes from baseline to follow-up SCARED total score within each treatment group will be analysed with linear mixed models having the stratifying factor sex and baseline as covariates. All analyses will be done separately for children and parents and we will use all available data according to the intention-to-treat principle. The participating children/parents will be included as a random effect in order to generalise the results beyond our study sample, if feasible. As the two primary outcomes are both single measurements, that is, the SCARED total scores for children and for parents, there will be no need for adjustment of p values due to multiple tests. The secondary outcome measures will be analysed using the same modelling approach as for the primary outcomes measures.

We will conduct a number of subgroup analyses including stratified analyses based on (i) the use of 31 points in SCARED total scores in children as a cut-off point,45 (ii) the possibility of children’s anxiety disorders using DAWBA, (iii) parental DASS-21 scores over the mean in the study population, (iv) completing the 6-month follow-up measurements before or after the worldwide COVID-19 pandemic, (v) completing the 6-month follow-up measurements less than 3 months after finishing the intervention and (vi) adherence in the intervention. In case there is a large number of missing observations at 6 months, we will undertake sensitivity analyses including repeating of the primary SCARED total scores analysis, substituting alternative ranges of values for the 6-month measurement. The purpose is to assess the robustness of our estimates in both intervention and education control groups. A two-sided p value less than 0.05 will be considered statistically significant. PROC MIXED in SAS (V.9.4) will be used in all statistical analyses.

**Patient and public involvement**

The screening process was developed in collaboration with the school healthcare authorities and nurses. The platform, intervention and measures were tested in a small pilot study of 10 children with clinically diagnosed anxiety. Their families were interviewed and the platform, ICBT and measures were further adapted based on their experiences. The web application that is used to deliver the intervention is constantly being developed.

**Ethics and dissemination**

The study has been registered in ClinicalTrials.gov and approved by the research ethics board of the Hospital District of South West Finland (ETMK:67/1801/2017, approved on 20 June 2017). The relevant bodies have been informed of all the important protocol modifications that have occurred after the original registration and approval. The local authorities in charge of school healthcare have given their permission. Best practice guidelines for conducting RCTs are being followed in accordance with the Recommendations for Interventional Trials. Taking part is voluntary and participants can stop at any time. Children and parents can contact the study team if they have any questions. The internet traffic between the participant and the website is protected. The website is hosted on a secure server, maintained by the University of Turku IT Services in Finland. Data linkage and analysis of data will be undertaken within the host institution and all data will be held, and transferred, securely. Our data management follows the findable, accessible, interoperable and reusable principles46 and includes detailed information on data description, storage and the decisions on archiving and preservation after the study ends.

This trial has minimal risk. Similar remote interventions have produced good results in other countries, with no significant adverse events, and a data monitoring committee is not needed. The ICBT comprises the same components as a face-to-face CBT, which is the prioritised evidence-based treatment for anxiety disorders. The exclusion criteria include situations and conditions that could make it difficult to participate or induce adverse effects. Any possible adverse events are handled within the weekly phone calls with the coach, and the participants may as well contact the study personnel any time. The coaches get intensive training and regular supervision from two CBT therapists and can consult a specialist in child psychiatry at any time. If the participant needs child psychiatric care, a referral can be made to free local public services. All participants, regardless of their study group, are entitled to use any other services. Staff are trained to identify and report any suspicion of abuse and neglect according to local legal requirements. The data on why people discontinue the ICBT is collected during the trial and will be reported.

The funders have played no role in the planning of the study. The Research Centre for Child Psychiatry at the University of Turku initiated, planned and is managing the study. The anonymised results will be published in a scientific journal and disseminated to healthcare professionals and the general public. The participants of the present study will also be offered a possibility to answer similar follow-up surveys 1 and 2 years after the randomization. The study participants will not receive any payments, but they will each be sent a movie ticket at the time of the follow-up to thank them for the time they spent participating in the study.

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