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Appendix

Measuring Response to Clinical Care in Children and Young People with Anxiety, Depression, OCD or PTSD: An International Standard Set of Outcome Measures

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Notes on the Scope of the Standard Set

As per Working Group consensus, this Standard Set was designed for use with children and young people (CYP) aged 6-24 years, with anxiety, depression, obsessive-compulsive disorder (OCD), or post-traumatic stress disorder (PTSD) as defined by the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5; 1), or the International Classification of Diseases for Mortality and Morbidity Statistics, 11th Revision (ICD-11; 2). All included conditions are internalising disorders, typically characterised by high levels of negative affect (3). Depression and anxiety have high levels of co-occurrence (4,5); and PTSD and OCD were classified as anxiety disorders until the publication of the DSM-5 (3). Within the broader diagnostic categories of depression and anxiety, all relevant sub-disorders are covered (e.g., separation anxiety, panic disorder, or social phobia), with the exception of secondary or substance-induced depressive or anxiety disorders, and selective mutism. Bipolar disorder is excluded. OCD and PTSD are included as primary diagnoses, but other OCD- and stress-related disorders are not explicitly covered (e.g., body focused repetitive behaviour disorder, complicated bereavement). This means that the Working Group did not seek to identify outcomes or measurement instruments that were specifically applicable to these sub-disorders. However, services and practitioners are encouraged to use this Standard Set for CYP with other presentations as and where relevant.

The lower age threshold of 6 years was chosen to reflect differences in the presentation, treatment, and monitoring of the target disorders in young children, as well as cross-cultural variation in the minimum age for diagnoses. Similarly, definitions of adolescence vary cross-culturally, as does the typical age of transition into adult care. An existing ICHOM Standard Set for adult anxiety and depression covers young people from the age of 14 years (6). The combination of the Sets for adults and CYP provides for transition at any point between the ages of 14 and 24, allowing for local variation in transition and judgements about which Set is most suitable for different ages. To avoid variation *within* services, the Working Group recommends that CYP's mental health services generally administer the Set for CYP, while adult services should administer the ICHOM Standard Set for Depression and Anxiety in Adults. However, responsibility for selecting the most suitable set will ultimately lie with clinicians.

Detailed Methodology

The Working Group

The Working Group included six experts by experience (i.e., young people with experience of service use for anxiety, depression, OCD, or PTSD; or their parents), and 21 experts by profession, including biostatisticians, clinical psychologists, epidemiologists, nurses, primary care physicians, psychiatrists, psychometricians, and social workers. Working Group members came from 13 countries across Africa, the Americas, Asia, Europe, and Oceania (table S1). In addition, a central project team (KK, SC, MW) coordinated and facilitated the consensus-building process, and completed supporting research tasks, but did not vote with the Working Group on the recommendations to be made. This included KK as research fellow, SC as project manager, and MW as Working Group chair. The non-voting project team were all based in the United Kingdom.

Table S1. Composition of the Working Group (27 voting members)

Region / Subregion	n (%)
Americas	10 (37%)
North America	8 (30%)
Latin America & the Caribbean	2 (7%)
Africa	1 (4%)
Northern and Sub-Saharan Africa	1 (4%)
Asia	6 (22%)
Eastern and Southern Asia	6 (22%)
Europe	5 (19%)
Northern Europe	3 (11%)
Western Europe	2 (7%)
Oceania	5 (19%)
Total	27 (100%)

Working Group members were identified through several avenues. Firstly, a scoping review was conducted by SC during the project initiation phase, to identify relevant service user organisations, measurement initiatives, professional bodies, and publications actively addressing questions relating to outcome measurement for anxiety and depression in CYP. In addition, open recruitment calls inviting interested individuals to participate in the Working Group, Open Review process, or Standard Set implementation, was disseminated through ICHOM's networks, including the funders of this initiative, as well as social media channels. Relevant organisations identified as part of the rapid review were contacted and the information shared. Individuals were identified through both routes. In the first instance, ICHOM identified a potential Working Group chair (MW), who was subsequently contacted and engaged. Next, a matrix of candidates was composed to facilitate the representation of diverse geographies, disciplines, types of expertise (i.e., professional versus lived experience), as well as a balance of specialist interests (i.e. in depression or anxiety, or in specific developmental groups). A shortlist was created that would represent different matrix cells, and shortlisted professionals were invited to participate by ICHOM. There was a snow-ball sampling element to this process, whereby individuals or organisations could recommend additional candidates for consideration by ICHOM, or agree to disseminate the recruitment call (7). Young people and parents with lived experience of service use were invited based on their pro-active solicitation of ICHOM in response to the recruitment calls disseminated via the above-mentioned channels. All participants were briefed on the project before agreeing to be part of the Working Group and all Working Group members participated on a voluntary basis. Of the six lived experience experts who joined the Working Group, three participated throughout the entirety of the process, and three participated throughout the Delphi phases and endorsed the final set. There was no drop-out amongst the 21 professional experts who joined the Working Group process from the outset.

The Consensus-Building Process

Consensus was built through structured teleconferences, a Delphi-type exercise, and iterative rounds of anonymous feedback surveys and voting, which were informed by systematic and narrative literature reviews and other research inputs completed by the central project team. An open online consultation (henceforth called *Open Review*) gathered external feedback on the draft recommendations from researchers, practitioners, and service user representatives beyond the Working Group, toward the end of the consensus-building process.

Structured teleconferences. The Working Group convened for eight thematic structured teleconferences over a period of 14 months (October 2018 – December 2019). Professional Working Group members were required to participate in a minimum of 50% of the teleconferences and associated surveys to be considered full Working Group members. Lived-experience experts were expected to participate in the Delphi exercise, and strongly encouraged to also participate in all other stages of the process. On average, each teleconference was attended by 17 of the 27 Working Group members (ranging from 14 to 21 attendees across the eight calls), who typically split across two separate calls to accommodate different time zones. Catch-up calls were offered to all members unable to make the full call. During each teleconference, the central project team (KK, SC, MW) presented research findings (e.g., from the systematic review or the appraisal of measurement instruments, see below), as well as anonymous voting results and comments from the Delphi exercise and feedback surveys (see below). Key decision points were suggested by the project team and discussed within the group. As part of this, the Working Group chair (MW) would invite all participants, one participant at a time, to share their thoughts on the decision to be made in a 'round robin' fashion, with a different order selected each time. Participants also had the opportunity to raise additional issues or questions or to come back to points raised at the end of each round. No formal decisions were made during teleconferences and full minutes were shared with all Working Group members.

Iterative internal feedback surveys and online voting. All decisions about the Standard Set's scope, included outcome domains, and recommendations in relation to measurement instruments, case-mix factors, and timepoints were based on iterative voting via anonymous online surveys. After each teleconference, a survey was circulated for members to vote on the key decision points identified during the call. Summaries of the research findings and discussion points from the corresponding conference call were provided for general reference, and to inform those who had been unable to attend the call. At least 80% of Working Group members had to vote in any given Working Group survey for the results to be considered valid; and every decision had to be endorsed by at least 70% of survey participants for consensus to be considered as reached. The central project team (KK, SC, MW) had a facilitating role and did not participate in the voting. Where required, initial voting results and free text comments were shared within the Working Group during the subsequent call, to facilitate movement towards consensus in a subsequent round of voting. In some cases, the least favoured option from prior rounds was dropped, with the process made clear prior to

voting. Areas of contention were openly discussed, and anonymous voting repeated until consensus was achieved. This structured process was used to reach consensus on the scope of the Standard Set, suitable outcome measures, case-mix variables, and time points for measurement. The Working Group also voted to confirm their support on procedural aspects, such as the criteria for instrument selection.

Delphi-type exercise to select outcome domains. In order to determine the outcome domains for inclusion, a modified 3-round Delphi process was run following the second teleconference. As in all Working Group surveys, 80% participation was required in each round. In the first round, each voting Working Group member ranked each potential outcome domain on a scale from 1 to 9 based on a number of criteria, to indicate whether they thought the domain should be included in the Set. This was in line with common practice in Delphi surveys, where 9-point rating scales are frequently used (8). Domains ranked between 7 and 9 by 80% of the Working Group were included after round one. Those domains that were ranked between 1 and 3 by 80% of the Working Group were dropped. For all outcome domains that fell in between, written comments provided by Working Group members in the Delphi survey were shared. A second round of voting with the same process was then completed. After the third teleconference, all remaining ambiguous outcome domains were discussed during a Working Group call and then subject to a *Yes/No* inclusion vote, with 70% consensus required for inclusion. As described above, decisions about the Standard Set's scope, measurement instruments, case-mix factors, and time points were reached using simplified voting techniques and rating scales, including binary response options, and choices between multiple alternative options.

Research Inputs

Systematic Review. A systematic literature review was conducted at the start of the process to identify an exhaustive list of possible outcomes, measurement instruments, and case mix factors.

Search Strategy. A search syntax was devised to identify relevant studies in three publication databases: Medline, APA PsychINFO, and the Cumulative Index to Nursing and Allied Health Literature (CINAHL). Rather than searching for pre-defined outcome concepts, the project team searched for a wide range of treatment efficacy and effectiveness studies, to identify the outcomes measured and reported in the empirical literature. The search terms specified the study population (i.e., children, adolescents, young people), the target disorders (i.e., anxiety, depression, OCD, PTSD), and a wide range of methodologies (e.g., clinical trials, observational studies, case series). The search syntax further included terms to narrow down the search to treatment outcome studies (e.g., treatment effects, intervention efficacy, outcome assessment), and a number of exclusion terms (e.g., feasibility study). The search strategy used to search APA PsychINFO is provided in table S2.

Inclusion and exclusion criteria. To be considered for inclusion, studies had to (a) be published between January 2013 and November 2018 in a peer-reviewed journal, (b) focus on treatment for anxiety, depression, OCD, or PTSD in CYP aged 6-24 years, with a mean participant age within the eligible age range, (c) enrol participants who had received a clinical diagnosis or referral, or were seeking help for one of the target disorders (i.e., prevention studies were excluded), (d) assess treatment outcome quantitatively for at least one of the target disorders, and (e) be published in English, French, German, or Spanish. Eligible study designs included randomised control trials (RCTs) and follow-ups, open-label trials and naturalistic studies, case-control studies and case series. In the case of trials, trial protocols were reviewed in addition to original research articles to identify any outcomes and measures that had been included in the original study design but were not subsequently reported. No restrictions were imposed in relation to study settings or intervention modalities.

Study Selection. The systematic search identified 1,562 unique articles. Titles and abstracts were split into three parts and screened by two members of the central project team (KK and SC) and one project assistant (CI). Of the 1,562 articles screened, 418 were retained for full-text screening (figure s2). These were split evenly between the three reviewers, and 10% of full-texts were screened by all three reviewers. A *Fleiss Kappa* of 0.70 indicated good interrater agreement between the three reviewers (8). Discrepancies were discussed and resolved. A total of 257 articles were retained for data extraction.

Data Extraction. Data was systematically extracted by two reviewers (KK and SC) using a data extraction matrix that had been piloted in a previous systematic review of outcomes measured in treatment outcome studies for adolescent depression (9). At the start of the data extraction process, the two reviewers extracted data in duplicate from ten studies. Results were compared, discrepancies discussed, and the extraction matrix refined further to enhance data quality and

consistency. The remainder of studies were divided between SC and KK for data extraction. Information extracted from each study included: citation details, trial registration details (where applicable), country of implementation, research design, target disorder and sub disorder(s), information about the participant sample (i.e., gender ratio, age range, mean age, ethnicity, sample size), the eligibility criteria applied for participant recruitment (i.e., clinical diagnosis, help-seeking, referral), exclusion criteria, intervention setting, intervention type, moderators and predictors of treatment assessed in the study, the outcome concepts assessed, the outcome measure used, and the informants consulted on each outcome. All outcomes and measures identified were systematically catalogued. As this review aimed to identify outcome concepts and measurement instruments, rather than to synthesise the evidence base on treatment efficacy or effectiveness, the 257 studies included were not subject to a data quality assessment.

Data synthesis. The aim of data synthesis was to collate a maximum number of meaningfully distinct outcome concepts for Working Group members to vote on in the Delphi exercise. One reviewer (SC) reviewed all primary and secondary outcome concepts that had been extracted ‘verbatim’ from the included studies, and collapsed duplicates (e.g., ‘symptoms of anxiety’ and ‘anxiety symptoms’), as well as significantly overlapping concepts (i.e. ‘psychosocial functioning’ and ‘social functioning’). These decisions were made with reference to existing conceptual outcome frameworks (10,11) and reviewed by a second rater (KK). For certain concepts, the Working Group deliberated on the final terminology to describe the outcome concept. Where possible, consistency was maintained with prior ICHOM Standard Sets. In addition, all outcome measurement instruments reported in the reviewed studies were extracted and added to a database that mapped each instrument to the primary concept(s) that they were designed to measure according to key validation papers. Once the Working Group had agreed on a broad range of outcomes to consider, all instruments in the database were mapped onto these outcome domains by two members of the central project team (KK and SC), who reviewed and discussed each other’s domain mapping iteratively, to enhance reliability and consistency.

Table S2. Search Strategy for Systematic Review (PsychINFO)

Search Terms
1. "0300".md.
2. randomized.ab.
3. placebo.ab.
4. (clinical trial or randomi#ed control# trial).id.
5. randomly.ab.
6. trial.ti.
7. 1 or 2 or 3 or 4 or 5 or 6
8. exp animals/ not humans.sh.
9. (primate* or rat#1 or mouse or mice or non-human).ti.
10. 8 or 9
11. 7 not 10
12. ("0430" or "0452" or "0600" or "1600").md.
13. (case\$ and control\$).tw.
14. (case\$ and series).tw.
15. observational study.ab,ti,mh.
16. 12 or 13 or 14 or 15
17. (case study or case report or single subject).ti.
18. 16 not 17
19. (("semi-structured" or semistructured or unstructured or informal or "in-depth" or indepth or "face-to-face" or structured or guide) adj3 (interview* or discussion* or questionnaire*)),ti,ab.
20. (focus group* or qualitative or ethnograph* or fieldwork or "field work" or "key informant").ti,ab.
21. interviews as topic/ or focus groups/ or narration/ or qualitative research/
22. 19 or 20 or 21
23. (child*3 or kids or childhood or schoolchild* or pupil* or school-age* or school age*).ti.
24. (adoles* or teen* or boy* or girl* or minors or puberty or youth or juvenile*).ti.
25. ((young adj person) or (young adj people)).ti.
26. (paediatric* or pediatric*).ti.
27. school*.ti.
28. (adolescent or child or minors).mh.
29. 23 or 24 or 25 or 26 or 27 or 28
30. adult.mh.
31. 29 not 30
32. (depress* or mdd or antidepress* or (low adj3 mood) or (mood adj3 disorder*) or (affective adj3 disorder*) or (internali#ing adj3 disorder*) or suicid*).ti.
33. (cyclothymic disorder* or dysthymic disorder* or seasonal affective disorder* or single episode depress* or recurrent depress* or premenstrual dysphoric disorder or disruptive mood or (mood adj dysregulat*)),ti.

Search Terms

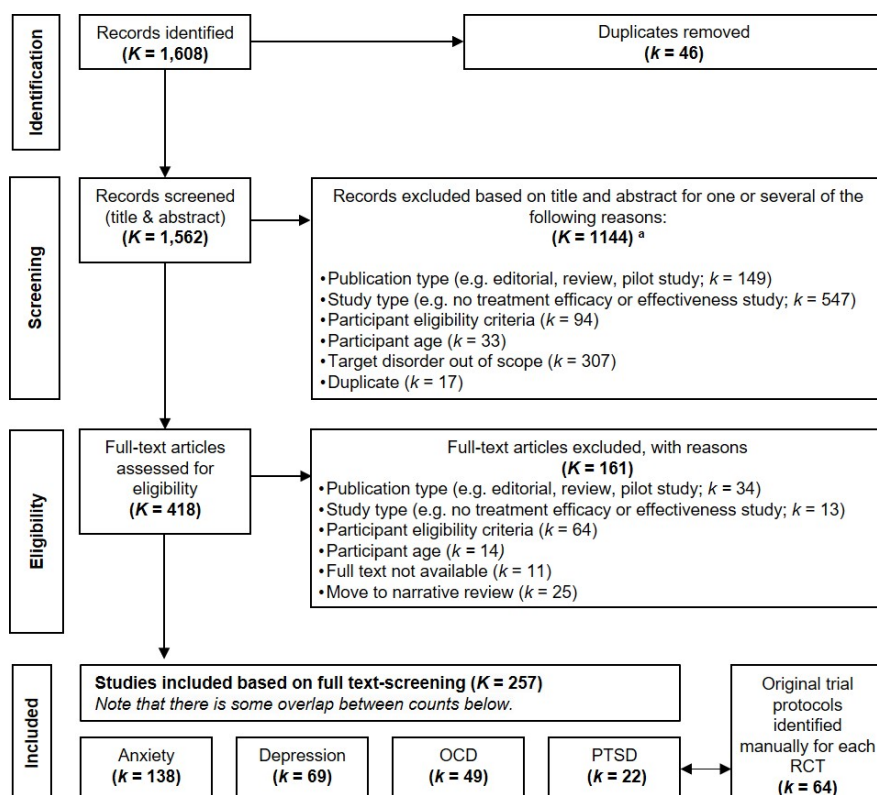
34. (anxiety or panic or phobi* or agoraphobia).ti.
 35. (obsessive#compulsive or obsession* or obsessive* or compulsion* or compulsive*).ti.
 36. (post#traumatic or traumatic stress or ptsd).ti.
 37. (depression or anxiety or ptsd or post#traumatic stress or ocd or obsessive#compulsive disorder).id.
 38. (depression or affective symptoms or anxiety disorders or mood disorders or obsessive-compulsive disorder or stress disorders, traumatic).mh.
 39. 32 or 33 or 34 or 35 or 36 or 37 or 38
 40. ((intervention adj6 effect*) or (intervention adj6 efficacy) or (intervention adj6 outcome*) or (intervention adj6 success) or (intervention adj6 impact) or (intervention adj6 result*) or (intervention adj6 evaluat*) or (intervention adj6 measu*)).ab,ti.
 41. ((intervention adj10 experience*) or (intervention adj10 perception*) or (intervention adj10 descri*) or (intervention adj10 feedback*)).ab,ti.
 42. ((treat* adj6 effect*) or (treat* adj6 efficacy) or (treat* adj6 outcome*) or (treat* adj6 success) or (treat* adj6 impact) or (treat* adj6 result*) or (treat* adj6 response) or (treat* adj6 evaluat*) or (treat* adj6 measu*)).ab,ti.
 43. ((treat* adj10 experience*) or (treat* adj10 perception*) or (treat* adj10 descri*) or (treat* adj10 feedback*)).ab,ti.
 44. ((program*3 adj6 effect*) or (program*3 adj6 efficacy) or (program*3 adj6 outcome*) or (program*3 adj6 success) or (program*3 adj6 impact) or (program*3 adj6 result*) or (program*3 adj6 evaluat*)).ab,ti.
 45. ((program*3 adj10 experience*) or (program*3 adj10 perception*) or (program*3 adj10 descri*) or (program*3 adj10 feedback*)).ab,ti.
 46. ((psychotherap* adj6 effect*) or (psychotherap* adj6 efficacy) or (psychotherap* adj6 outcome*) or (psychotherap* adj6 success) or (psychotherap* adj6 impact) or (psychotherap* adj6 result*) or (psychotherap* adj6 evaluat*) or (psychotherap* adj6 measu*)).ab,ti.
 47. ((therap* adj6 effect*) or (therap* adj6 efficacy) or (therap* adj6 outcome*) or (therap* adj6 success) or (therap* adj6 impact) or (therap* adj6 result*) or (therap* adj6 evaluat*)).ab,ti.
 48. ((psychotherap* adj10 experience*) or (psychotherap* adj10 perception*) or (psychotherap* adj10 descri*) or (psychotherap* adj10 feedback*)).ab,ti.
 49. ((therap* adj10 experience*) or (therap* adj10 perception*) or (therap* adj10 descri*) or (therap* adj10 feedback*)).ab,ti.
 50. ((evaluat* adj6 effect*) or (evaluat* adj6 efficac*) or (evaluat* adj6 success) or (evaluat* adj6 response) or (evaluat* adj6 outcome*) or (evaluat* adj6 result*) or (evaluat* adj6 pretreat*) or (evaluat* adj6 posttreat*)).ab,ti.
 51. ((assess* adj6 effect*) or (assess* adj6 efficac*) or (assess* adj6 success) or (assess* adj6 response) or (assess* adj6 outcome*) or (assess* adj6 result*) or (assess* adj6 pretreat*) or (assess* adj6 posttreat*)).ab,ti.
 52. ((measur* adj6 effect*) or (measur* adj6 efficac*) or (measur* adj6 success) or (measur* adj6 response) or (measur* adj6 outcome*) or (measur* adj6 result*) or (measur* adj6 pretreat*) or (measur* adj6 posttreat*)).ab,ti.
 53. ((trial adj6 outcome*) or (trial adj6 effect*)).ab,ti.
 54. (outcome assessment or outcome measurement).id.
 55. (treatment outcome or patient outcome assessment or patient reported outcome measures or clinical trial or evaluation studies).mh.
 56. 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55
 57. ("2018" or "2017" or "2016" or "2015" or "2014" or "2013").yr.
 58. ("0100" or "0110" or "0120").pt.
 59. prevent*.ti.
 60. ((pilot adj3 study) or (pilot adj3 trial) or (pilot adj3 evaluation)).ti.
 61. ((feasibility adj3 study) or (feasibility adj3 trial) or (feasibility adj3 evaluation)).ti.
 62. ((protocol adj6 study) or (protocol adj6 trial)).ti.
 63. (case study or case report or single subject study).ti.
 64. 59 or 60 or 61 or 62 or 63
 65. (injury or injuries or cancer or asthma or eczema or diabetes).ti.
 66. ((anxiety adj5 preoperative) or (stress adj5 preoperative) or (anxiety adj5 perioperative) or (stress adj5 perioperative) or surgery or surgical).ti.
 67. 65 or 66
 68. 64 or 67
 69. 11 or 18 or 22
 70. 69 and 56
 71. 70 and 31 and 39 and 57 and 58
 72. 71 not 68
-

Note. Equivalent syntaxes were used for searches in Medline and CINAHL, with small syntax adjustments to meet the requirements of the relevant search engines.

Identification of outcome domains. An extensive list of possible outcome domains was compiled by the project team from the 257 studies identified through the systematic review. This was complemented with a narrative review of supplemental sources, including clinical guidelines, instrument banks, qualitative studies, and cohort studies. These were identified through manual searches of reference lists, and recommendations from Working Group members. In addition, break-out groups were conducted with the group's service user representatives to identify any additional outcomes, and to highlight those considered most important. After consolidating findings from the systematic and narrative reviews, and the consultation of Working Group members, 70 outcome domains were identified. Through the Delphi exercise (see above), this list was then gradually reduced; and consensus was formed on the outcome domains to include in the Standard Set. The aim was to seek a balance between tracking response to treatment comprehensively, and devising a feasible set of recommendations that services could implement reliably. To this end,

the Working Group were advised to identify a *core* Standard Set of up to 15 outcomes considered most relevant to children, young people, and their families, and which would be recommended as a *minimum*.

Figure S1. Modified PRISMA Diagram



^a Note that k does not add up to K due to double coding for different exclusion criteria at the title and abstract screening stage.

Identification and appraisal of outcome measures. After reaching consensus on the outcome domains to include, the Working Group proceeded to the identification and appraisal of measurement instruments that would be most suitable for tracking change in the selected outcome domains over time. The systematic and narrative literature reviews identified 507 unique outcome measures, which included both clinician-rated and patient-reported instruments. After removing ad-hoc measures and tools not suitable for routine use (e.g., lab-based tests), 355 measurement instruments were retained and mapped to the outcome concept they were designed to measure, according to key development or validation papers (figure S2, below).

A Three-Stage Appraisal Process. Of these 355 measurement instruments, 107 broadly mapped onto one of the outcome domains selected for inclusion by the Working Group, and were extracted and subjected to a systematic, three-stage appraisal (see tables S3-S7). At stage one, the central project team (KK, SC, MW) determined whether each measure comprehensively covered the designated outcome domain. This process served to exclude measures that at closer assessment did not fall within any of the designated domains (e.g., Self-Efficacy Questionnaire for School Situations), or that only captured a specific aspect of the broader outcome concept (e.g., the Existential Anxiety Questionnaire). The majority of measures provided adequate domain coverage and were carried forward to stage two. At stage two, the instruments' feasibility and acceptability for clinical practice was assessed by establishing whether a measure (a) had been tested for reliability and validity in children or young people (as opposed to being developed for and validated in adults only); (b) was available at no licensing cost for clinical practice in paper format and as part of electronic systems; (c) was sufficiently brief (i.e., requiring less than 20 minutes for completion, or including fewer than 60 items); and (d) was available in more than one language (i.e., demonstrating a level of international transportability).

At stage three, studies meeting feasibility criteria were assessed against the minimum standards for patient-reported outcome measures suggested by the International Society for Quality of Life Research (ISOQOL; 12). Measures were evaluated in terms of whether or not they demonstrated acceptable test-retest or interrater reliability ($r \geq 0.7$) and internal consistency (Cronbach's $\alpha \geq 0.7$), and whether there was evidence of their sensitivity to change in terms of changes in scores measured overtime that were consistent with predefined hypotheses about the expected treatment outcome (12). Other aspects such as content and construct validity were also considered and discussed by the Working Group. Relevant studies reporting on psychometric properties were compiled through an automated search using a validated PubMed search filter (13), the consultation of an online database of outcome measures (<https://eprovide.mapi-trust.org>), and consideration of systematic reviews focusing on the psychometric properties of specific measures.

Results from the psychometric appraisal were first shared and discussed with a sub-set of interested Working Group members during domain-specific break-out groups (open to all Working Group members), which led to the shortlisting of the instruments that were judged to best satisfy the appraisal criteria. In the next teleconference, the shortlisted measures were presented along with the results from the psychometric appraisal, and a rationale for shortlisting them was provided. The psychometric appraisal results for measures that had not been shortlisted by the thematic break-out groups were made available to the Working Group participants as part of the appendix to the teleconference slides. Since few measures clearly exceeded all ISOQOL criteria (especially the relatively loosely defined criterion pertaining to sensitivity to change), the psychometric strengths and disadvantages of the shortlisted measures were discussed in detail within the Group. During these discussions, the Working Group considered additional aspects such as the length of the measure, its face validity, its readability, the age range covered by the measure, and whether matching youth and parent versions were available. The Working Group then voted in several iterations of online surveys to reach consensus on the measures to be included. The final selection was thus made by group deliberation and consensus, rather than through a criterion- or algorithm-based ranking process. As in all decisions relating to the Standard Set's recommendations, the central project team had a facilitating role but did not vote on the inclusion of outcome measures.

Working Group members had the opportunity to "lifeboat" any measure excluded by the process or by one of the thematic break-out groups at any of the three stages. This enabled individual Working Group members to review and challenge the criteria, to present a rationale for reconsidering the respective instrument, and to ensure further group discussion, voting, or a psychometric appraisal took place as needed to solidify the decision to be made.

The three-stage appraisal process considered both long and short versions of each measure. Following the feasibility assessment, evidence for the psychometric properties of short and long forms was reviewed. For the purpose of reducing the list of eligible measures to a shortlist, the thematic break-out groups considered evidence relating to short and long versions of each measure, with long forms often more widely validated. In the subsequent conference call with the full Working Group, the central project team then provided an overview of the psychometric appraisal results for all versions available for each measure shortlisted by the break-out groups. The Working Group would then make a final decision about the inclusion of short or long forms.

Process adaptation. The consensus building process aimed to yield a coherent set of recommendations for a feasible Standard Set. Consequently, discussions about each measure were, by necessity, not independent of one another. After reaching consensus on the most suitable symptom measures, the Working Group subsequently explored the most complementary options for measuring functioning and suicidal ideation and behaviour, with a view to minimising item redundancies and managing the overall length of the final instrument battery.

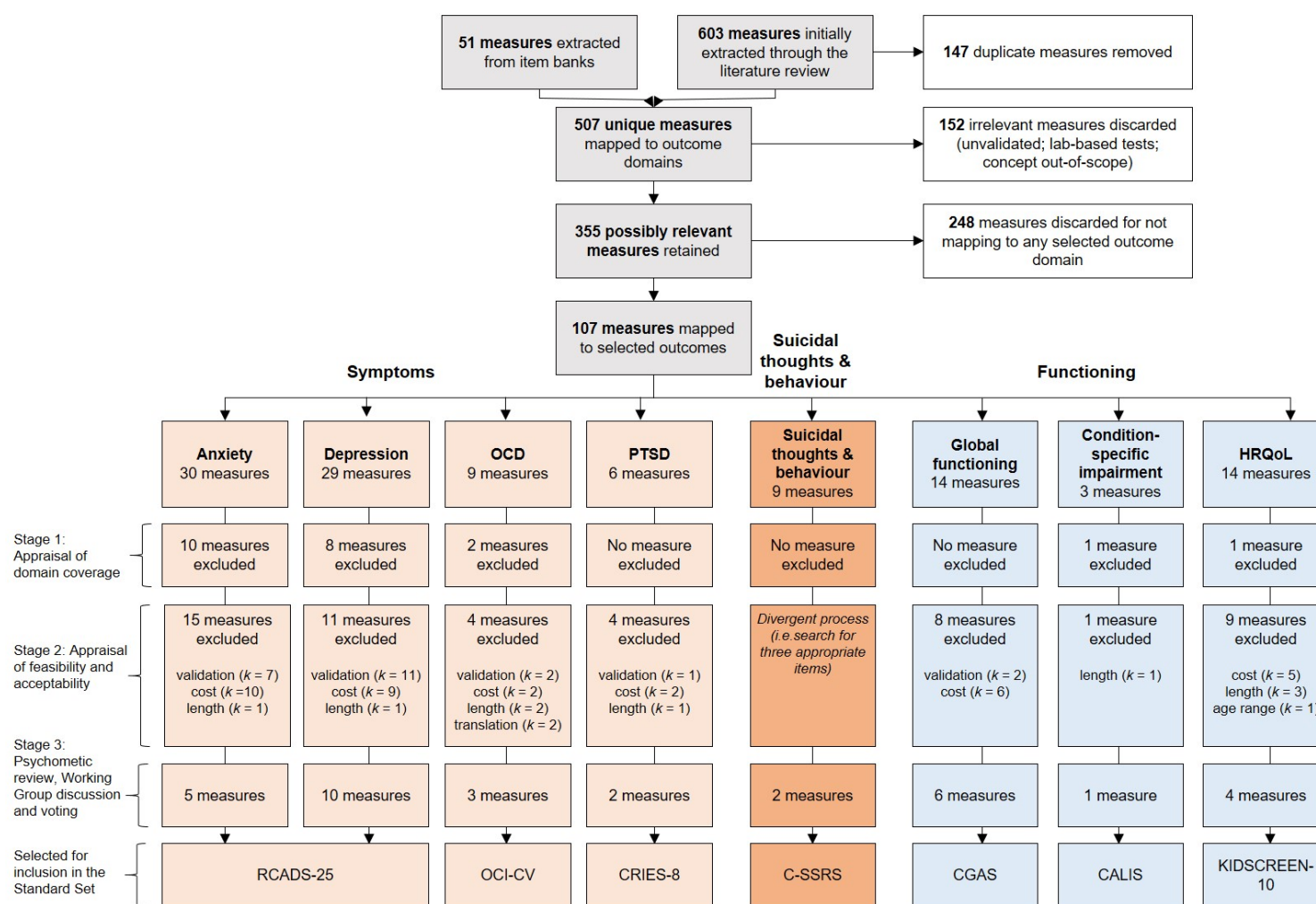
In this process, none of the self-reported measures of global functioning reached group consensus. This was due primarily to their length, and to the frequent conflation of symptom and impairment ratings, which led to overlap and redundancies with the selected symptom measures for anxiety and depression. A decision was made to explore disorder-specific impairment measures, and to consider complementing this with a shorter measure of Health-Related Quality of Life. Quality of life has been described as a more global and subjective construct than functional impairment, which "reflects the overall positivity with which individuals view their state and circumstances" across aspects of physical, psychological, cognitive, and social functioning (14). The Working Group considered that there was sufficient conceptual overlap to measure aspects of global functioning via a measure of HRQoL. An expedited review process took place to review measures originally mapped from the systematic review and supplemental sources (e.g., recommendations by the Working Group). Candidate measures were discussed at length in the teleconference calls, and through an additional break-out group.

After selecting the RCADS as a measure of anxiety and depression symptoms, the Working Group was not satisfied that this measure adequately covered the ‘suicidal thoughts and behaviour’ domain. However, in light of the length of available standalone measures of suicidality, the Group elected to cover this domain with a short set of items. All measures identified through the systematic review were reviewed and any short measures (up to three items), or individual items relating to suicidal thoughts and behaviour were extracted. In addition, the project team reviewed supplemental sources (e.g., health surveys) and solicited suggestions from the Working Group. For any candidate measure or set of items, aspects relating to the coverage of suicidal thoughts *and* behaviour, cross-cultural applicability, and the reporter of this domain were discussed at length.

Figure S2 (below) provides an overview of the measure appraisal process. Tables S3 through S7 list the measurement tools identified within the domains of symptoms and functioning, and indicates the appraisal stage at which these measures were excluded (or included).

Accepted

Figure S2. Flow Chart: Identification and Appraisal of Outcome Measures



^a Shortlisted measures were reviewed against the minimum standards for patient-reported outcome measures recommended by the International Society for Quality of Life Research (ISOQOL; 12). Where long and short versions of a measure were available, all were considered for the ISOQOL assessment. Note that k does not always add up to 100%, since measures could be excluded for more than one reason. Note that seven measures were considered for both anxiety and depression, in addition to 23 anxiety measures and 24 depression measures.

MEASURING RESPONSE TO CLINICAL CARE

Table S3. Overview of all Anxiety Measures Considered

Acronym	Measure Name	Comprehensive Domain Coverage	Feasibility Assessment	Subject to Psychometric Review	Included per Group Consensus
Measures Covering Anxiety & Depression					
CEMS	Children’s Emotion Management Scales (15)	not passed	—	—	—
DASS-21	Depression Anxiety Stress Scale (16)	passed	not passed	—	—
HADS	Hospital Anxiety and Depression Scale (17)	passed	not passed	—	—
NASSQ	Negative Affect Self-Statement Questionnaire (18)	passed	passed	yes	no
PANAS	Positive and Negative Affect Scale for Children (19)	not passed	—	—	—
RCADS	Revised Child Anxiety and Depression Scales (20)	passed	passed	yes	yes
YSR	Youth Self-Report (21)	passed	not passed	—	—
Measures Covering Anxiety Only					
ADIS	Anxiety Disorders Diagnosis Interview Schedule DSM IV/V (22)	passed	not passed	—	—
BAI	Beck Anxiety Inventory (23)	passed	not passed	—	—
BFNE-II	Brief Fear of Negative Evaluation II (24)	not passed	—	—	—
BYI-A	Beck Youth Inventory Anxiety Subscale (25)	passed	not passed	—	—
CASI-Anx	Child and Adolescent Symptom Inventory (26)	passed	not passed	—	—
EAQ	Existential Anxiety Questionnaire (27)	not passed	—	—	—
FSSC-R	Fear Survey Schedule for Children Revised (28)	not passed	—	—	—
GAD-7	General Anxiety Disorder Assessment (29)	passed	passed	yes	no
HAM-A	Hamilton Anxiety Scale (30)	passed	not passed	—	—
IUSC	Intolerance of Uncertainty Scale for Children (31)	not passed	—	—	—
MASC	Multidimensional Anxiety Scale for Children (32)	passed	not passed	—	—
NEURO-QOL	Neuro QoL Short Form v1.0 Pediatric Anxiety (33)	passed	not passed	—	—
NIH	NIH Toolbox Fear Fixed Form Ages 8 17 v2.0 (34)	not passed	—	—	—
PARS	Paediatric Anxiety Rating Scale (35)	passed	not passed	—	—
PAS	Preschool Anxiety Scale (36)	passed	not passed	—	—
PROMIS	PROMIS Pediatric Short Form v2.0 Anxiety 8a (37)	passed	not passed	—	—
PSWQ-C	Penn State Worry Questionnaire for Children (38)	not passed	—	—	—
RCMAS	Revised Children’s Manifest Anxiety Scale (39)	passed	not passed	—	—
SCARED	Screen for Child Anxiety Related Disorders (40)	passed	passed	yes	no
SCAS	Spence Children’s Anxiety Scale (41)	passed	passed	yes	no
SEQSS	Self-Efficacy Questionnaire for School Situations (42)	not passed	—	—	—
SFT	School Fear Thermometer (43)	not passed	—	—	—
STAIC	State Trait Anxiety Inventory for Children (44)	passed	not passed	—	—

MEASURING RESPONSE TO CLINICAL CARE

Table S4. Overview of all Depression Measures Considered

Acronym	Measure Name	Comprehensive Domain Coverage	Feasibility Assessment	Subject to Psychometric Review	Included per Group Consensus
Measures Covering Anxiety & Depression					
CEMS	Children’s Emotion Management Scales (15)	not passed	—	—	—
DASS-21	Depression Anxiety Stress Scale (16)	passed	not passed	—	—
HADS	Hospital Anxiety and Depression Scale (17)	passed	not passed	—	—
NASSQ	Negative Affect Self-Statement Questionnaire (18)	not passed	—	—	—
PANAS	Positive and Negative Affect Scale for Children (19)	not passed	—	—	—
RCADS	Revised Child Anxiety and Depression Scales (20)	passed	passed	yes	yes
YSR	Youth Self-Report (21)	passed	not passed	—	—
Measures Covering Depression Only					
ADRS	Adolescent Depression Rating Scale (45)	passed	passed	yes	no
BDI-II	Beck Depression Inventory 2nd version (46)	passed	not passed	—	—
BHS-II	Beck Hopelessness Scale (47)	passed	not passed	—	—
CDI-2	Children’s Depression Inventory 2nd version (48)	passed	not passed	—	—
CDRS-R	Children’s Depression Rating Scale Revised (49)	passed	not passed	—	—
CES-D	Centre for Epidemiologic Studies Depression Scale (50)	passed	passed	yes	no
DSRSC	Depression Self-Rating Scale for Children (51)	passed	passed	yes	no
HAM-D	Hamilton Rating Scale for Depression (52)	passed	passed	yes	no
MADRS	Montgomery Asberg Depression Rating Scale (53)	passed	passed	yes	no
MFQ	Mood and Feelings Questionnaire (54)	passed	passed	yes	no
NEURO-QOL	Neuro QoL Short Form v1.0 Pediatric Anger (33)	not passed	—	—	—
NEURO-QOL	Neuro QoL Short Form v1.1 Pediatric Depression (33)	passed	not passed	—	—
NIH	NIH Toolbox Anger Affect Fixed Form Ages 8-17 (34)	not passed	—	—	—
NIH	NIH Toolbox Sadness Fixed Form ages 8-17 (34)	not passed	—	—	—
PFC	Preschool Feelings Checklist (55)	not passed	—	—	—
PHQ-9	Patient Health Questionnaire 9 (56)	passed	passed	yes	no
POMS-SF	Profile of Mood States Short Form (57)	not passed	—	—	—
PROMIS	PROMIS Pediatric Scale v2.0 Anger 9a (37)	not passed	—	—	—
PROMIS	PROMIS Pediatric Short Form v2.0 – Depressive Symptoms 8a (37)	passed	passed	yes	no
QIDS-SR	Quick Inventory of Depressive Symptomatology (58)	passed	passed	yes	no
RADS	Reynolds Adolescent Depression Scale (59)	passed	not passed	—	—
TAS-20	Toronto Alexithymia Scale (60)	passed	not passed	—	—

MEASURING RESPONSE TO CLINICAL CARE

Table S5. Overview of all OCD and PTSD Measures Considered

Acronym	Measure Name	Comprehensive Domain Coverage	Feasibility Assessment	Subject to Psychometric Review	Included per Group Consensus
Symptoms of OCD					
ChOCI-R	Children's Obsessional Compulsive Inventory-Revised (61)	passed	not passed	—	—
CY BOCS	Children's Yale-Brown Obsessive-Compulsive Scale (62)	passed	not passed	—	—
NIMH GOCS	National Institute of Mental Health – Global Obsessive-Compulsive Scale (63)	passed	not passed	—	—
WBSI	White Bear Suppression Inventory (64)	not passed	—	—	—
RBS-R	Repetitive Behaviour Scale – Revised (65)	not passed	—	—	—
ZWIK	Zwangsinventars für Kinder und Jugendliche (66)	passed	not passed	—	—
OCI CV	Obsessive Compulsive Inventory – Revised – Child Version (67)	passed	passed	yes	yes
LOI CV	Leyton Obsessional Inventory – Child Version (68)	passed	passed	yes	no
OBQ CV	Obsessive Beliefs Questionnaire – Child Version (69)	passed	passed	yes	no
Symptoms of PTSD					
CPSS	Child PTSD Symptom Scale (70)	passed	passed	yes	no
UCLA PTSD RI	University of California at Los Angeles PTSD Reaction Index (71)	passed	not passed	—	—
CAPS CA	Clinician Administered PTSD Scale for Children and Adolescents (72)	passed	not passed	—	—
CRIES	Children's Revised Impact of Event Scale (73)	passed	passed	yes	yes
TSCC	Trauma Symptom Checklist for Children (74)	passed	not passed	—	—
PDS	Posttraumatic Diagnostic Scale (75)	passed	not passed	—	—

Table S6. Overview of all Functioning and Impairment Measures Considered

Acronym	Measure Name	Comprehensive Domain Coverage	Feasibility Assessment	Subject to Psychometric Review	Included per Group Consensus
Global Functioning					
BIS	Brief Impairment Scale (76)	passed	passed	yes	no
BPRS	Brief Psychiatric Rating Scale (77)	passed	passed	yes	no
CAFAS	Child and Adolescent Functional Assessment (78)	passed	not passed	—	—
CGAS	Children's Global Assessment Scale (79)	passed	passed	yes	yes
CGI-I	Clinical Global Impressions Scale – Improvement (80)	passed	passed	yes	no
CGI-S	Clinical Global Impressions Scale – Severity (80)	passed	passed	yes	no
CIS	Columbia Impairment Scale (81)	passed	not passed	—	—
CSDS	Child Sheehan Disability Scale (82)	passed	not passed	—	—
HoNOSCA	Health of the Nation Outcome Scale (83)	passed	passed	yes	no
IRS	Impairment Rating Scale (84)	passed	not passed	—	—
ORS	Outcome Rating Scale (85)	passed	not passed	—	—
SDQ	Strengths and Difficulties Questionnaire Impact Supplement (86)	passed	not passed	—	—
SLOF	Specific Levels of Functioning Scale (87)	passed	not passed	—	—
Vineland-II	Vineland Adaptive Behavior Scales–Second Edition (88)	passed	not passed	—	—

ACCEPTED

Table S7. Overview of all HRQoL Measures Considered

Acronym	Measure Name	Comprehensive Domain Coverage	Feasibility Assessment	Maximum Age Range Covered	Fewer Than 20 Items ^a	Subject to Psychometric Review ^a	Included per Group Consensus
Disorder-Specific Impairment							
CAIS	Child's Anxiety Impact Scale (89)	passed	not passed	—	no	—	—
CALIS	Children's Anxiety Life Interference Scale (90)	passed	passed	passed	passed	yes	yes
COIS-R	Child OC Impact Scale – Revised (91)	not passed	—	—	—	—	—
Health-Related Quality of Life (HRQoL)							
CHQ	Child Health Questionnaire (92)	passed	not passed	—	—	—	—
CHU-9D	Child Health Utility 9D (93)	passed	not passed	—	—	—	—
EQ-5D-Y	EuroQol 5D-youth (94)	passed	passed	passed	passed	yes	no
KIDSCREEN	KIDSCREEN 10, 27,52 (95)	passed	passed	passed	passed	yes	yes
Kindl-r	Kindl-r 24 (96)	passed	passed	passed	not passed	—	—
PEDSQL	Pediatric Quality of Life Inventory (97)	passed	not passed	—	—	—	—
PQ-LES-Q	Pediatric Quality of Life and Enjoyment Satisfaction Questionnaire (98)	passed	passed	passed	passed	yes	no
PROMIS	PROMIS Pediatric Global Health (99)	passed	passed	passed	passed	yes	no
SF-12/SF-36	Medical Outcomes Study 12 or 36-item Short Form Health Survey (100)	passed	not passed	—	—	—	—
SIP	Sickness Impact Profile (101)	passed	not passed	—	—	—	—
WHODAS Child	World Health Organization Disability Assessment Schedule for Children (102)	passed	passed	passed	not passed	—	—
WHOQOL	World Health Organisation Quality of Life Assessment (103)	passed	passed	not passed	—	—	—
YQOL-R	Youth Quality of Life Instrument – Research (104)	passed	not passed	—	—	—	—

^a These additional criteria were applied to the appraisal of impairment and HRQoL measures as part of adapting the process to the symptom and functioning measures that had already been selected when this last group of measures were reviewed.

Identification and assessment of case-mix factors. Drawing on the initial systematic review and existing ICHOM Standard Sets, the central project team (KK, SC, MW) compiled a list of candidate variables to record for the purpose of case-mix adjustment. One member of the project team (KK) conducted a rapid review of reviews considering seven systematic reviews and meta-analyses to examine the evidence base on the role of each possible case-mix factor as a predictor or moderator of treatment response. Findings were presented to the Working Group, who then appraised each case mix factor for its relevance (i.e., strength of the evidence for a causal linkage with treatment response), and for the feasibility of collecting and comparing it practically and cross-nationally. Table S8 provides an overview of the reviews considered, and tables S9 and S10 provide a summary of the review findings in relation to different case mix factors.

Table S8. Overview of Reviews Considered for the Rapid Review of Reviews (Case-Mix Factors)

	Disorder(s) covered	Type of Review	No. of studies reviewed (<i>K</i>)	Case mix factors covered
Emslie et al. 2011 (105)	Depression	Review	<i>K</i> = 3	Age; gender; ethnic minority status; socio-economic status; baseline symptom severity; symptom duration; presence of comorbidities; maltreatment
Knight et al. 2014 (106)	Anxiety	Systematic Review	<i>K</i> = 51	Age; gender; ethnic minority status; socio-economic status; baseline symptom severity; presence of comorbidities; parental mental health
Lundkvist-Houndoumadi et al., 2014 (107)	Anxiety	Systematic Review	<i>K</i> = 24	Age; gender; ethnic minority status; socio-economic status; baseline symptom severity; presence of comorbidities; parental mental health
Nanni et al. 2012 (108)	Depression	Meta-analysis	<i>K</i> = 10	Maltreatment
Nilsen et al., 2013 (109)	Anxiety & Depression	Systematic Review	<i>K</i> = 32	Age; gender; ethnic minority status; baseline symptom severity; symptom; presence of comorbidities
Skriner et al. 2019 (110)	Anxiety	Integrative analysis	<i>K</i> = 9	Age; gender; ethnic minority status; presence of comorbidities
Walczak et al. 2018 (111)	Anxiety	Systematic Review	<i>K</i> = 25	Presence of comorbidities

Table S9. Rapid Review of Reviews on Predictors and Moderators of Treatment Response for Anxiety

	Number of individual studies out of all relevant studies assessed by the review that showed significant associations between the case mix variable and treatment response				
	Nilsen et al., 2013	Lundkvist-Houndoumadi et al., 2014	Knight et al. 2014	Walczak et al. 2018	Skriner et al. 2019 ^a
Demographic factors					
Age	5/21	3/9	2/11	—	Yes ^b
Gender	4/21	2/10	1/10	—	Yes ^b
Ethnic minority status	1/6	0/3	0/8	—	No ^c
Socio-economic status	—	0/4	0/10	—	—
Household situation	—	—	—	—	—
School attendance	—	—	—	—	—
Clinical factors					
Baseline symptom severity	2 / 6	7/8	3/10	—	—
Duration of symptoms	1 / 2	—	—	—	—
Presence of comorbidities	4/17	3/9	7/23	16/25	Yes ^b
Parental mental health	—	7/10	6/11	—	—
Maltreatment	—	—	—	—	—

^a This review did not report the number of reviewed studies observing significant effects, but presented meta-analysis results.

^b Meta-analysis showed a significant association with treatment response.

^c Meta-analysis showed no significant association with treatment response.

Table S10. Rapid Review of Reviews on Predictors and Moderators of Treatment Response for Depression

Number of individual studies out of all the studies assessed by the relevant review that showed significant associations between the case mix variable and treatment response			
	Emslie et al. 2011	Nanni et al. 2012 ^a	Nilsen et al. 2013
Demographic factors			
Age	1/3	—	2/5
Gender	0/3	—	0/7
Ethnic minority status	0/3	—	2/3
Socio-economic status	1/1	—	—
Household situation	—	—	—
School attendance	—	—	—
Clinical factors			
Baseline symptom severity	3/3	—	4/4
Duration of symptoms	2/3	—	0/2
Presence of comorbidities	3/3	—	3/6
Parental mental health	—	—	—
Maltreatment	0/2	Yes ^b	—

^a This review did not report the number of reviewed studies observing significant effects, but presented meta-analysis results.

^b Meta-analysis showed no significant association with treatment response.

Open Review of the Draft Recommendations. To obtain external feedback from the wider practitioner and service user communities on the acceptability of the Working Group's recommendations, the draft Standard Set was compiled into an anonymous online survey along with feedback questions and additional free text response options. This *Open Review* survey was disseminated to mental health professionals, researchers, individuals with lived experience of service use as a child or young person, and their parents through the same channels used for the recruitment of Working Group members. This included professional organisations, service user associations, the networks of ICHOM and the project funders, social media, and the Working Group's networks. The survey targeting professionals was accessible globally and yielded 463 responses from 45 countries (table S11). The survey targeting individuals and parents engaged participants in Denmark, the United States (US), and the United Kingdom (UK) due to varied national requirements for ethical approval. This yielded responses from 24 individuals, of which 9 indicated experience as a parent or carer. Open Review participants provided over 200 free-text comments on the proposed measures. The project team (KK & SC) first categorised these comments using framework analysis (112), and subsequently screened each comment for instrument-specific sub-themes (e.g., item content, feasibility, psychometric properties) using inductive thematic analysis (113). Common themes were reviewed and discussed by the Working Group. The Open Review survey was anonymous and open to any interested member of the public over 18 years of age.

Table S11. Composition of the Practitioner Sample in the Open Review

Region / Subregion	n (%)
Africa	17 (3.7%)
Americas	57 (12.3%)
North America	46 (9.9%)
Latin America & the Caribbean	11 (2.4%)
Asia	44 (9.6%)
Eastern and Southern Asia	22 (4.8%)
Western Asia	22 (4.8%)
Europe	305 (65.8%)
Northern Europe	258 (55.7%)
Western Europe	26 (5.6%)
Southern Europe	14 (3.0%)
Eastern Europe	7 (1.5%)
Oceania	40 (8.6%)
Total	467 (100.0%)

Supplementary Information on the Selected Outcome Domains and Measurement Instruments

From the list of 70 candidate outcomes, the Working Group selected nine: *symptoms of anxiety, symptoms of depression, symptoms of OCD, symptoms of PTSD, suicidal thoughts and behaviour, global functioning, sleep functioning, social functioning, and peer relationships*. These were grouped into the three high-level domains of *symptoms, suicidal thoughts and behaviour, and functioning*. The Group agreed that symptoms of anxiety, depression, OCD, and PTSD; suicidal thoughts and behaviour; and global functioning should be measured through dedicated instruments, and reported separately. In turn, it was decided that sleep functioning, social functioning, and peer relationships would not require separate measurement via dedicated instruments if they could be adequately covered by a composite measure(s) of global functioning or symptoms. This decision was taken to minimise the complexity and duplication within the Standard Set, enhancing feasibility and uptake.

Following the systematic appraisal of relevant measurement instruments for the selected outcome domains, the Working Group selected seven measures. The Revised Children's Anxiety and Depression Scale Short Version (RCADS-25) was selected as a joint measure of anxiety and depression symptoms, which allows for the computation of separate anxiety and depression total scores (114). The Obsessive Compulsive Inventory for Children (OCI-CV) was selected as a measure of OCD symptoms (67), the Children's Revised Impact of Events Scale (CRIES) as a measure of PTSD symptoms (73), and the Columbia Suicide Severity Rating Scale (C-SSRS) as a measure of suicidal thoughts and behaviour (115). The Working Group struggled to identify a clinician- or self-reported measure of functioning that satisfied all selection criteria. Common issues included overlap in item coverage between symptoms and functioning, a perceived overemphasis on bodily functions as opposed to psychosocial functioning, lack of validation across the full age span or in clinical populations, and cross-cultural validity.

In the absence of a single measure that fully satisfied all criteria, the group formed consensus on tracking both a broad concept of global functioning or health-related quality of life (HRQoL), and condition-specific functional impairment, through dedicated measures of each concept. The Group selected the self-reported KIDSCREEN-10 (116) and the clinician-rated Children's Global Assessment Scale (CGAS; 117) as measures of global functioning, and the self-reported Children's Anxiety Life Interference Scale (CALIS; 90) as a measure of condition-specific impairment. Each scale is described in more detail below and in table 1 of the manuscript.

All measurement instruments included in the Standard Set can be completed in less than 20 minutes, are freely available for use in clinical practice (table S12), have been validated for use with CYP, and have been translated into at least one additional language. The Working Group only selected instruments that are suitable for paper-, as well as electronic-based administration, to ensure their feasibility in service settings without well-developed digital systems.

Symptoms of anxiety and depression. The Revised Children's Anxiety and Depression Scale Short Version (RCADS-25) is a self- and parent-report scale for youth aged 8-18 years, measuring the frequency of symptoms associated with depression and anxiety (114). It is a shortened version of the original RCADS-47 (20), which consists of six subscales assessing symptoms of major depressive disorder (MDD, 10 items), generalized anxiety disorder (GAD, 6 items), separation anxiety disorder (SAD, 7 items), social phobia (SP, 9 items), panic disorder (PD, 9 items), and obsessive-compulsive disorder (OCD, 6 items), in line with DSM-IV dimensions. Symptom frequency is scored on a four-point Likert scale ranging from 0 (*never*) to 3 (*always*).

The RCADS-25 was derived from the RCADS-47 through bifactor-modelling (114). It includes three items each to cover GAD, OCD, PD, SAD, and SP. While it does not allow for the computation of separate subscales for each of these anxiety disorders, the 15 items can be aggregated into an overall anxiety score. The RCADS-25 further includes the same 10 items covering major depressive disorder as the original long form. The RCADS-25 is currently available in English, Hindi, Spanish and Swedish. The original 47-item version is available in 14 languages. Long or short versions of the RCADS have been applied in at least 25 countries across Africa, Europe, North America, South America, and Asia (118). The RCADS-47 has demonstrated good internal consistency, reliability, and construct validity (20,119–122). There is also some evidence of its sensitivity to change. While the RCADS-25 has been less widely validated, it has demonstrated high internal consistency for its self- and parent-reported anxiety subscale (Cronbach's $\alpha = 0.82 - 0.95$), depression subscale ($\alpha = .79 - .93$), and total scale ($\alpha = .88 - .90$), and satisfactory test-retest reliability ($r = .70 - .90$) for the subscales and total scale in clinical and non-clinical samples (114,123–125). Additional research is needed to examine its sensitivity to change, and structural validity (125).

Symptoms of OCD. The 21-item OCI-CV assesses OCD symptom severity across six symptom domains: doubting/checking/obsessing; hoarding; washing; ordering; and neutralising. Symptom frequency is scored in a 3-point Likert scale ranging from 0 (*never*) to 2 (*always*). The OCI-CV has been validated in clinical and non-clinical populations in Africa, Asia, Europe, North and South America. It has demonstrated good internal consistency (Cronbach's $\alpha = .83 - .91$) and acceptable test-retest reliability ($r = 0.77 - 0.82$; $ICC = .85 - .92$) in clinical and non-clinical populations (67,126–130), with some evidence for its sensitivity to change (67). A parent-version of the OCI-CV is not currently available, and the Standard Set recommends collecting only youth report until a matching parent-report becomes available. The OCI-CV aligns with the ICHOM adult Standard Set for anxiety and depression, which recommends its adult version (6).

Symptoms of PTSD. The Standard Set includes the Children's Revised Impact of Events Scale's 8-item version (CRIES-8) for youth self-report, and its 13-item version for parent report (CRIES-13; 73). The CRIES-8 measures intrusions and avoidance; the CRIES-13 includes five additional items measuring hyperarousal. Symptom frequency is scored on a four-point scale (0, *not at all*; 1, *rarely*; 3, *sometimes*; and 5, *often*). The CRIES has been used in research in Europe, East and South Asia, and Asia Pacific, and is available in at least 27 languages. The CRIES-8 and CRIES-13 have demonstrated satisfactory test-retest reliability ($r = 0.78$ and 0.85 , respectively) in a clinical sample (131), high internal consistency (Cronbach's $\alpha = .70 - .86$ for the CRIES-8; and $.74 - .89$ for the CRIES-13), in clinical and non-clinical samples (131–133). The parent version has shown evidence of sensitivity to change (134).

Suicidal thoughts and behaviour. The Columbia Suicide Severity Rating Scale (C-SSRS) Recent Self-Report Screener (115) is a shorter self-report version of the clinician-administered semi-structured C-SSRS interview protocol. The C-SSRS Recent Self-Report Screener consists of five items assessing the severity of suicidal ideation in the previous month (i.e., suicidal thoughts, intent, and plans), and a sixth item that assesses suicidal behaviour. Items are scored on a binary response scale response scale (*yes/no*). While the self-report screener has not yet been validated in CYP, the severity of ideation subscale of the clinician-rated C-SSRS (from which most of the Self-Report Screener is derived) has demonstrated good internal consistency (ordinal $\alpha = .97$) and interrater reliability ($IRR = .92$), as well as sensitivity to change in clinical adolescent samples (115). The C-SSRS is available in at least 100 languages.

Global functioning. The KIDSCREEN-10 is part of the KIDSCREEN suite of measures, which assesses Health-Related Quality of Life (HRQoL) in CYP aged 8-18 years, and also includes the more comprehensive KIDSCREEN-52 and KIDSCREEN-27 (135). The KIDSCREEN-52 was initially developed through a process of cross-cultural harmonisation across 13 European countries. The shorter KIDSCREEN-27 was developed subsequently, and consists of 27 items across 5 dimensions of HRQoL. The KIDSCREEN-10 was derived from the 27-item version using Rasch analysis (51) in order to offer an even briefer assessment that could be used in large population-based studies or for routine monitoring purposes without imposing an undue burden on respondents and administrators (116). Responses are scored on a five-point Likert scale that indicates the frequency or intensity of specific experiences (from *never/not at all* to *always / extremely*). The KIDSCREEN-10 has shown satisfactory internal consistency for the youth- (Cronbach $\alpha = 0.80 - 0.82$) and parent-version (Cronbach $\alpha = 0.76 - 0.78$), and satisfactory test-retest reliability for the youth version ($ICC = 0.70$) (116,136,137).

The Children's Global Assessment Scale (CGAS) is a brief clinician-rated measure of global functioning (117). The CGAS was developed for CYP aged 4-16 years, and has been widely used over the past three decades. Clinicians perform a single rating by locating CYP on a scale from 1 to 100, which places them into one of ten categories, from 1 – 10 (*extremely impaired*) to 91 – 100 (*doing very well*). The CGAS has demonstrated good inter-rater and test-retest reliability (117,138), and sensitivity to change (139).

Condition-specific impairment. Condition-specific impairment relates to the “ways in which symptoms interfere with and reduce adequate performance of important and desired aspects of a child's life” (14). The Standard Set recommends the Children's Anxiety Life Interference Scale (CALIS; 90) to measure this aspect of functioning. The CALIS consists of 9 items (10 in the parent version), which describe instances where anxiety symptoms may impact on functioning at home, at school, on social life, or on activities. The extent of symptom interference with daily functioning is scored on a five-point Likert scale from 0 (*not at all*) to 4 (*a great deal*). The CALIS was developed for CYP aged 6-17 years and is available in at least seven languages. Both the youth and parent versions have demonstrated high internal consistency (Cronbach's $\alpha = 0.71 - 0.90$) and largely acceptable test-retest reliability ($r = 0.66 - 0.87$) in clinical and non-clinical samples, as well as evidence for sensitivity to change (90,140,141).

Casemix factors. The Standard Set recommends using the Current View Tool (142) to measure comorbid presenting problems, and complexity factors at baseline, for the purpose case mix adjustment. This brief clinician-rated screening tool is completed by clinicians based on all available information about a young person and their family, including other completed standardised measures. It includes a battery of 30 brief problem descriptions that map onto ICD-11 diagnostic criteria considered relevant to CYP (2). Each presenting problem is scored according to the severity of distress and functional impairment it is causing, using a scale from 0 (*none*) to 3 (*severe*). The Current View Tool further allows clinicians to indicate the presence of 14 complexity factors. These include issues related to the young person's health, such as the presence of serious physical health issues, a pervasive developmental disorder, or neurological disorders; issues related to the family situation, such as whether a young person has been taken into the care of their local authority, whether they have caring duties for a family member, whether their wellbeing is being monitored by social services, whether parents experience health issues, and whether the family is known to live in financial difficulty. Other complexity factors include being a refugee or asylum seeker; having experienced war, torture or trafficking; having experienced abuse or neglect; or having been in contact with the youth justice system. In addition, clinicians can mark whether young people have difficulties with attendance and/or attainment at school, training, or work. The Current View Tool was developed in the United Kingdom, and may require adjustment for the purpose of cross-cultural validity. It is hoped that insights from the piloting of the Standard Set will be able to inform such efforts in the future. The Working Group considered, for example, that it would be important to add exposure to natural disaster as a complexity factor, which is not currently covered by the Current View Tool.

Accepted

Table S12. Information on Licencing and Access to the Recommended Measurement Instruments

Concept	Questionnaire	Informant(s)	Reference	Licensing information and web link
Symptoms of anxiety & depression	Revised Children's Anxiety and Depression Scale Short version (RCADS-25)	CYP & parents	Ebesutani et al., 2010, 2012 (114,143)	Copyrighted by Susan Spence and Bruce Chorpita. No fee or license required for use. Please notify Dr. Chorpita before use in published studies and read and understand the terms of use available via the link. Questionnaire can be accessed here: https://www.childfirst.ucla.edu/resources/
Symptoms of OCD	Obsessive Compulsive Inventory for Children (OCI-CV)	CYP	Foa et al., 2010 (67)	Copyrighted by Edna Foa. No fee or license required for use in healthcare settings. Requests for access to be sent to Ellen Kubis (ekubis@pennterms.upenn.edu)
Symptoms of PTSD	Children's Revised Impact of Events Scale (CRIES-8/13)	CYP & parents	Yule 1997 (73)	Copyrighted by the Children and War Foundation. No fee or license required for use. Questionnaire can be accessed here: https://www.childrenandwar.org/projectsresources/measures/
Suicidal thoughts and behaviour	Columbia Suicide Severity Rating Scale (C-SSRS) Recent Self-Report Screener	CYP	Posner et al., 2011 (115)	Copyrighted by Research Foundation for Mental Hygiene. No fee or license required for use in community and healthcare settings, or in non-profit research. For inquiries and training requirements contact posnerk@nyspi.columbia.edu . Questionnaire can be accessed here: http://cssrs.columbia.edu/the-columbia-scale-c-ssrs/about-the-scale/
Global functioning	KIDSCREEN-10	CYP & parents	Ravens-Sieberer et al., 2010 (116)	Copyrighted by the KIDSCREEN group. No fee for funded and non-funded academic research and non-commercial organisation research and evaluation studies. Fees required for commercial usage. Collaboration form required. Questionnaire can be accessed here: https://www.kidscreen.org/english/questionnaires/kidscreen-10-index/
	Children's Global Assessment Scale (CGAS)	Clinician	Shaffer 1983, (117)	No fee or license required for use. Questionnaire can be accessed here: https://www.cymh.ca/modules/MeasuresDatabase/en/Home/Detail/77#Key-Info-Content
Impact of condition on daily life	Children's Anxiety Life Interference Scale (CALIS)	CYP & parents	Lynham et al., 2013 (90)	Copyrighted by Centre for Emotional Health, Macquarie University, Sydney, Australia. No fee or license required for research or clinical purposes. Questionnaire can be accessed here: https://www.mq.edu.au/research/research-centres-groups-and-facilities/healthy-people/centres/centre-for-emotional-health-ceh/resources
Casemix: Presenting problems & complexity factors	Current View Tool	Clinician	Jones et al., 2013 (142)	Copyrighted. No fee or license required. Questionnaire can be accessed here: https://www.corc.uk.net/outcome-experience-measures/current-view/

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