

# Social Phobia and Evasiveness: Trial Protocol for a Feasibility, Superiority, Randomized Controlled Trial of the Effect of Modified Collaborative Assessment vs. Standard Assessment on Patients' Readiness for Psychotherapy (CO-ASSM-RCT).

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## Study Protocol

**Keywords:** Assessment, personality disorders, social phobia, psychotherapy, evasiveness, collaborative assessment, therapeutic assessment

**Posted Date:** October 27th, 2021

**DOI:** <https://doi.org/10.21203/rs.3.rs-966836/v1>

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1 **Social Phobia and Evasiveness: Trial Protocol for a Feasibility, Superiority, Randomized Con-**  
2 **trolled Trial of the Effect of Modified Collaborative Assessment vs. Standard Assessment on Pa-**  
3 **tients' Readiness for Psychotherapy (CO-ASSM-RCT).**

4  
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20  
21 **Abstract:**

22 **Background:** Evasive personality disorder (EPD) and social phobia (SP) have substantial costs to the  
23 patients and their families, and great economic costs to the community. While psychotherapy can be an  
24 efficient treatment, a large percentage of patients drop-out during treatment. Little is known about what  
25 can be done in order to decrease dropout from psychotherapy in general, including how to increase a pa-  
26 tient's readiness for psychotherapy.

27 **Methods:** We describe a feasibility randomized controlled trial of 42 individuals with a clinical diagno-  
28 sis of either SP or evasive personality disorder, who are to initiate psychotherapeutic treatment in Dan-  
29 ish outpatient mental health services. They will be randomized in a 1:1 ratio to either assessment-as-  
30 usual and receive no further assessment, or to a Modified Collaborative Assessment (MCA) provided as  
31 a pre-treatment intervention before psychotherapy initiation. MCA will included a battery of psycholog-  
32 ical tests designed to thoroughly assess the patients' psychopathology. The tests is administered in col-  
33 laboration with the patient including a detailed oral and written feedback. We hypothesize that the pa-  
34 tients randomized to MCA will reach higher levels of readiness for psychotherapy as assessed with the  
35 University of Rhode Island Change Assessment Scale (URICA) and have lower dropout-rates than as-  
36 sessment-as-usual.

37 **Discussion:** This protocol assess the feasibility, efficacy, acceptability, and safety of an intervention  
38 aimed at changing the readiness for participation in psychotherapy for patients with SP and EVP. Re-  
39 sults from this feasibility study could guide the development of future large-scale trials of MCA and  
40 procedures for MCA treatment fidelity assessment.

41

42 **Trial Registration: 2021001**

43 **Keywords:** Assessment, personality disorders, social phobia, psychotherapy, evasiveness, collaborative  
44 assessment, therapeutic assessment

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## 54 **Background**

### 55 **Introduction and rationale**

56 Anxiety disorders represent an important public health concern in the western world [1, 2]. Estimates  
57 from a large European epidemiological survey suggest that 14% of the European population will meet  
58 criteria for an anxiety disorder within their lifetime [3]. These disorders are often associated with a  
59 chronic, debilitating course for the affected individual as well as high socio-economic costs [4-6]. Anxi-  
60 ety disorders are among the leading causes of the global disease burden and the annual costs in Europe  
61 alone reached 74 billion Euros in 2010 [7, 8]. Continuous efforts to improve treatment programs for  
62 anxiety pathology is imperative.

63 Social phobia (SP) is the most common amongst anxiety disorders. The fear of being observed or nega-  
64 tively evaluated by other people is a prominent characteristic of individuals with social phobia. This fear  
65 leads the individual to avoid performance or social situations (e.g. speaking or eating in front of others,  
66 making acquaintances, and meeting authorities) or they enter such situations with substantial discomfort  
67 [9]. This evasiveness severely impacts the social functioning and quality of life for affected individuals [  
68 10, 11].

69 Similarly, avoidant personality disorder (AvPD) is characterized a pervasive pattern of social inhibition,  
70 feelings of inadequacy, and a hypersensitivity to negative evaluation, which result in marked evasive-  
71 ness in terms of avoidance of social interactions, while perceiving themselves as unwanted and isolated  
72 from others [9]. The Diagnostic and Statistical Manual of Mental Disorders, fifth edition (DSM-5) [12]  
73 recognize a considerable overlap between AvPD and SP. Although the relationship between the disor-  
74 ders is a matter of debate[13], the dominant conceptualization is that the two disorders represent a spec-  
75 trum, differing from each other only in severity (the severity continuum hypothesis[14]). In the upcom-  
76 ing revision of the International Classification of Diseases, tenth edition (ICD-10), AvPD will be re-  
77 moved as an independent diagnosis [15], which further support the severity continuum hypothesis. Sim-  
78 ilarly to the anxiety disorders, AvPD is associated with profound impairment in daily life for the af-  
79 fected individual as well as high socio-economic costs [16].

80 Hence, the present study protocol relevantly focus on SP and evasiveness.

81 Danish outpatient mental health services provide time-restricted, standardized, interdisciplinary treat-  
82 ment programs for social phobia and AvPDs. Following national clinical practice guidelines, the treat-  
83 ment programs offer evidence-based cognitive-behavioral therapy for social phobia and mentalization-  
84 based therapy for AvPD.

85 The content and format in the standardized treatment programs for moderate-severe SP and AvPD are  
86 regulated in accordance with the Danish Health Authority guidelines. The treatment program for SP  
87 amounts up to 15 hours of clinical assessment (3hrs), psychopharmacological consultation (1 hrs), indi-  
88 vidual psychotherapy (7 hrs) or group therapy with two therapists (28 hrs), relatives support (1½ hrs),  
89 and network consultation (1½ hrs) [17]. The standardized outpatient treatment program for AvPD in-  
90 clude 34 hours of clinical assessment (2 hrs), psychopharmacological consultation (2 hours) individual  
91 therapy (11 hrs) or group psychotherapy with two therapists (60 hrs), and network consultation (3 hrs)  
92 [18].

93 Correspondingly, do the standardized outpatient treatment program for AvPD include 34 hours of clini-  
94 cian time, entailing approximately two hours of clinical assessment, two hour of psychopharmacological  
95 consultation, 11 hours of individual therapy and 15 hours of group therapy with two therapists and lastly  
96 three hours of contact with the general practitioner to other support-persons around the patient [18].

97 However, despite a solid evidence-base for the efficacy of cognitive-behavioral therapy for social pho-  
98 bia, recent meta-analytic data suggest that only 45% of patients suffering from social phobia remit from  
99 their principal diagnosis after treatment and patients with social phobia have a worse outcome than pa-  
100 tients with other anxiety disorders[19]. The evidence-base psychological treatment for avoidant person-  
101 ality is limited in terms of number and quality of studies and the remission rates vary substantially from  
102 40-80% [20].

103 Data from a recently finalized multicentre, randomized controlled trial [21] investigating the relative ef-  
104 ficacy of group diagnosis-specific versus transdiagnostic cognitive-behavioral therapy for anxiety disor-  
105 ders or depression support the meta-analytic findings on social phobia. In this trial, 291 patients with  
106 anxiety disorders or depression received standardized treatment programs in three Danish mental health

107 services, and the results suggested that only half of the patients no longer met diagnostic criteria for  
108 their principal diagnosis by the end of treatment [22]. No data exists on the efficacy of the standardized  
109 programs for AvPD.

### 110 **Modified Collaborative Assessment**

111 Psychiatric assessment do usually aim to establish a diagnosis and plan the treatment, while it is not  
112 considered part of the treatment proper. We wish to alter this perspective by the introduction and explo-  
113 ration of a modification of Collaborative Assessment that we have chosen to name Modified Collabora-  
114 tive Assessment (MCA).

115 MCA takes off from Collaborative Assessment and Therapeutic Assessment (C/TA) [23-25]. These  
116 terms are used to describe a family of semi-structured, brief, therapeutic interventions, in which a thera-  
117 pist with a large battery of standardized diagnostic and psychological tests, administer these in a collab-  
118 orative manner, and deliver feedback in a manner that is useful and enriching - and therefore therapeutic  
119 - for the patient.

120 C/TA have been explored in several controlled trials with adults, and have been shown to be able to in-  
121 crease a range of process-variables related to therapy outcomes. This includes self-esteem [26-29], com-  
122 pliance with treatment-recommendations [30], therapeutic alliance with subsequent therapist [31, 32],  
123 satisfaction with treatment [33], as well as decreased anxiety symptoms [34, 35] and levels of self-criti-  
124 cism [34]. In addition, Poston and Hanson (2010) [36] published a meta-analysis on 17 published C/TA-  
125 studies, which found favorable effects of this intervention in terms of overall effectiveness, when com-  
126 pared to assessment as usual.

127 We wish to apply a modification of C/TA, where the intervention is shorter, and slightly more struc-  
128 tured and require less psychiatric expertise (i.e. can be carried out by trainee doctors and psychologists)  
129 which we therefore expect to be more feasible in the trial as well as in later implementation.

130 MCA will, similar to C/TA, include the administration of standardized diagnostic instruments, but we  
131 will in contrast to C/TA only include a smaller selection of tests, in order to secure feasibility. The bat-

132 tery of tests will be specifically designed to gather information on psychopathology, which a brief clinical  
133 interview might not detect, such as symptoms of previously un-detected developmental disorder or  
134 incipient psychosis. We have compiled a battery of tests with this focus because we find it most suitable  
135 for application in the Mental Health Service. The present study is further designed to establish diagnosis  
136 adhering to the current diagnostic systems (ICD-10 and DSM-5), but we expect it would be applicable if  
137 the Mental Health Service introduce the dimensional [37, 38] model of psychopathology, since the current  
138 MCA also includes a thorough personality assessment according to the DSM-5 alternative model of  
139 personality pathology..

140 MCA emphasize respect for the patients as “experts on themselves.” The assessor will in collaboration  
141 with the patient formulate a list of therapeutic questions, which the patient would like to “ask the psychological  
142 test’s” which will help guide the patient’s and assessors collaborative quest to learn more  
143 about the patient’s problems and personal resources. The results of the assessment and the answer to the  
144 therapeutic questions will be communicated, respectfully, to the patient both orally and in writing. It  
145 will further be communicated to the patient’s future therapist in writing. In this manner, it should be  
146 possible to formulate personally relevant problems for the later psychotherapy. The MCA-assessor recognizes  
147 that diagnostic assessments is an interpersonal event, and that the relationship between assessor  
148 and patient is paramount both in relation to the validity of the result, and in relation to the patient’s further  
149 treatment [25].

150 In short, MCA is a brief, individualized, and person-centered assessment of psychopathology, where assessment,  
151 psychotherapy and psychoeducation are integrated in a novel intervention, all carried out in  
152 collaboration with the patient.

153

#### 154 **Readiness for Psychotherapy**

155 The fundamental role of patients’ readiness to psychotherapy change (or client motivation) for outcome  
156 of therapy is widely recognized [39]. The concept overall refers to the intentional aspect of change, the  
157 internal drive preceding behavioral change before the initiation as well as the ongoing engagement

158 throughout therapy [40]. Theoretically the concept is most profoundly described as a core component in  
159 the ‘stage of change’-dimension of the so-called Transtheoretical Model of behavior change set forward  
160 by Prochaska & DiClemente [41]. In the ‘stage of change’-dimension, patients are assumed to vary in  
161 their overall readiness to change , and being on different levels of readiness to change ranging from  
162 ‘pre-contemplation’ over being ambivalent about change (‘contemplation’), having intentions to change  
163 (‘preparation’), and starting changes (‘action’) to consolidating changes (‘maintenance).

164 Studies have consistently found patients’ readiness to change to be an important factor in predicting and  
165 moderating psychotherapy outcomes for patients [42]. Regarding anxiety disorders, research indicate  
166 that patients’ readiness to change reduces symptoms and improve other process variables such as work-  
167 ing alliance and adherence to treatment [43]. However, data suggest that up to 80% of patients are not  
168 ready for change (to pursue treatment goals) when they enter treatment and they harness ambivalence  
169 about therapy [44].

170 We expect that MCA will increase patient’s readiness for psychotherapy as assessed by the University  
171 of Rhode Island Change Assessment Scale (URICA) (contemplation subscale) and the Readiness for  
172 Psychotherapy Index (RPI), and increase engagement in psychotherapy as measured by attendance to  
173 psychotherapy. We expect that more than one mechanism of action is at play: (a) the patient will de-  
174 velop a relationship with the MCA-accessor and the outpatient clinic during the course of MCA, which  
175 will carry-over to the therapeutic-relationship with the psychotherapist; (b) due to the structural MCA  
176 format, the patient will be confident that her problems are seen and understood; (c) the patient will un-  
177 derstand herself and her problems and personal strengths, and will more effectively be able to work on  
178 these in therapy, and (d) the therapists will have a greater knowledge of the patient’s problems based on  
179 the summaries from the MCA.

## 180 **Objectives**

181 The study objectives are to (1) compare the effect of MCA vs Assessment As Usual (AAU) in patients  
182 referred to group therapy for social phobia or AVPD on levels of readiness for psychotherapy compared  
183 with AAU at end-of-intervention (T1) (main outcome) and after one month follow-up (T2); (2) compare

184 the effect of MCA vs AAU in patients referred to group therapy for social phobia or AVPD on diagno-  
185 ses (number of diagnostic revisions) and treatment offered (number of patients offered other or addi-  
186 tional treatment) as well as adherence to group therapy (adherence within the first four weeks); (3) ex-  
187 plore the feasibility of MCA as intervention through patient satisfaction ratings and patient and thera-  
188 pist/clinician evaluations; (4) and develop a fidelity-checklist for the MCA intervention.

## 189 **Hypotheses**

190 We hypothesize that that MCA in patients with social phobia or AvPD is superior to AAU in increasing  
191 contemplation score (URICA, see below) at end of intervention (T1). (2) In addition to this, patients of-  
192 fered MCA have higher service satisfaction ratings (CSQ) than AAU prior to psychotherapy onset and  
193 user evaluation scores of MCA (purpose made) are positive (more than 3 on a 1-5 Likert Scale).

194

## 195 **Methods/design**

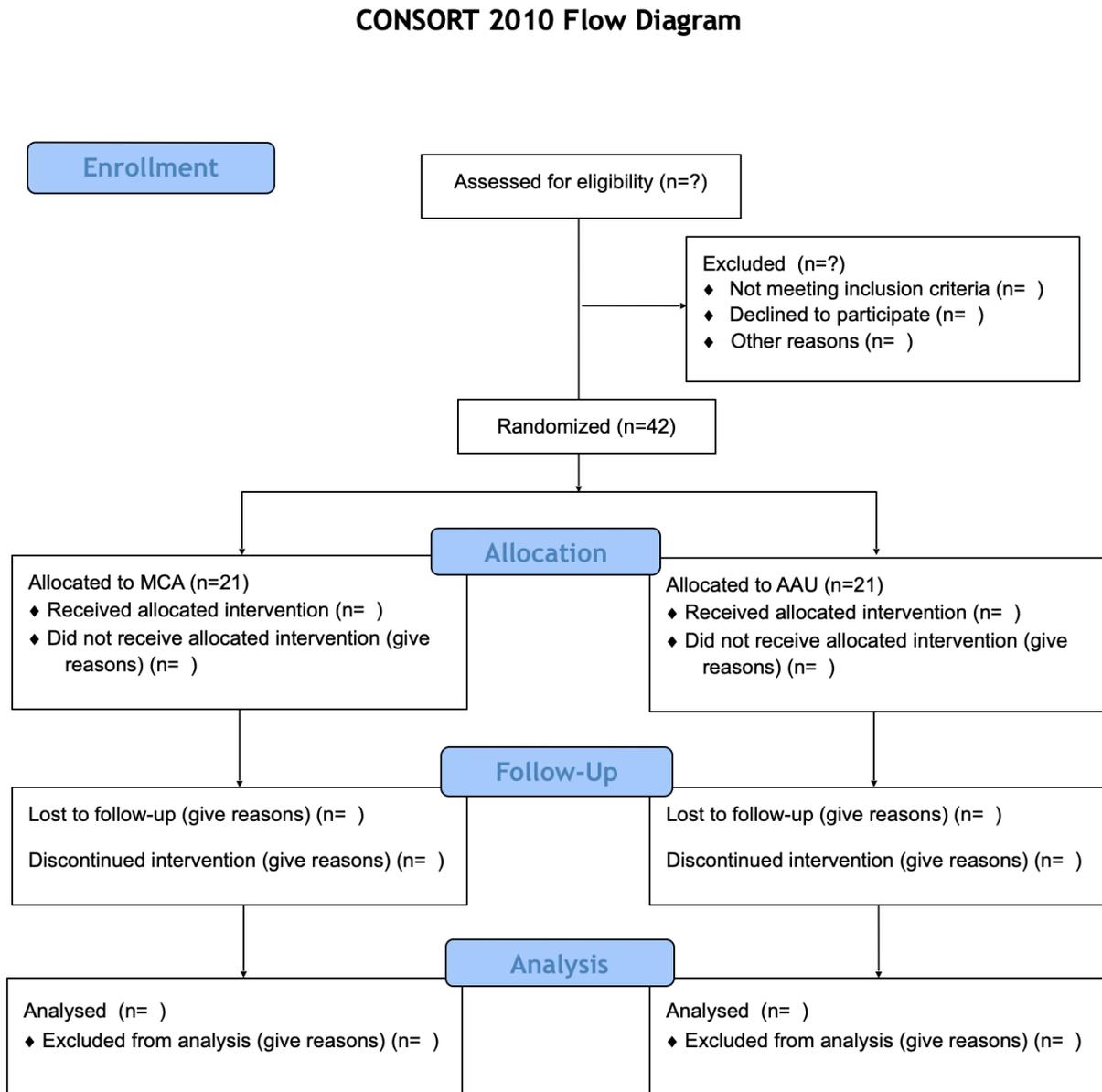
### 196 **Trial design**

197 A two-armed, parallel, superiority, randomized controlled trial comparing the effect of pre-treatment  
198 MCA with AAU.

199 A CONSORT diagram is provided in Fig. 1. A diagram of the proposed study and the outcome-assess-  
200 ment is provided in Fig. 2. The trial data collection and randomization, stratified by gender, will be car-  
201 ried out in the web-based data management system REDcap (<https://www.project-redcap.org/>). Self-rat-  
202 ings will be collected on the web-based REDcap platform.

203

204 **Figure 1. CONSORT flow diagram**



205

206 **Settings**

207 The setting of the study is Psychiatry South in Region Zealand, which is a rural-region with several me-  
 208 dium-sized cities, according to Danish standards. Two of these cities have Psychiatric Outpatient Clin-  
 209 ics, which carry out psychotherapeutic treatment of patients with emotional disorders, which are too se-  
 210 rious to be manageable by family doctors and primary sector psychologist and psychiatrists. Patients are  
 211 typically referred by general practitioners, when they have failed to respond to one or two different  
 212 treatments (medication and/or psychotherapy). The services in these clinics are covered by the public

213 Danish health insurance, and involve both psychotherapy and psychopharmacological treatment, see  
214 also Introduction.

### 215 **Participants and eligibility criteria**

216 We aim to include 42 patients that satisfy the inclusion criteria: (1) a tentative ICD-10 diagnosis of ei-  
217 ther SP or AVPD, (2) who is going to be offered treatment in the before mentioned clinics, (3) are 18-65  
218 years of age, (4) have given written consent to participate and (5) have sufficient knowledge of the Dan-  
219 ish language.

220 Patients will be excluded if (1) risk of suicide is high or moderate according to the investigator, (2) they  
221 have alcohol or drug dependency, (3) they have co-occurring eating disorder with BMI < 18 or psy-  
222 chotic illness

### 223 **Recruitment**

224 In the first consultation in the psychiatric clinic, clinicians evaluate if the patient is eligible for psycho-  
225 therapeutic treatment and stipulate a clinical diagnosis.

226 If patients are eligible for treatment in the clinic, they will be provided with information about the pro-  
227 ject and they will be invited to a meeting with a researcher, where the informed signed consent is gath-  
228 ered

### 229 **Randomization and blinding**

230 Patients will be randomized 1:1 to either the MCA or AAU. Allocation to experimental intervention or  
231 comparison intervention will be computer-generated using the software REDCap © [45].

232 Due to the nature of the intervention, neither participants nor the researcher who will administer the in-  
233 tervention, can be blinded to allocation. However, data will be re-coded for concealment and analyzed  
234 without access to information about allocation. The conclusion will be written prior to unblinding.

### 235 **Experimental intervention**

236 The MCA, as described in the Introduction will include at least the administration of the following nine  
237 assessment instruments:

238 **Present State Examination (PSE).** PSE is a semi-structured interview that intends to provide an objec-  
239 tive evaluation of symptoms associated with mental disorders. It consists of 140 items, which is scored  
240 on a 3-point or 4-point scale [46]

241 **Structured Clinical Interview for DSM-5 (SCID-5).** SCID-5PD: A semi-structured interview guide  
242 for evaluation of the 10 DSM-5 Personality Disorders.

243 **The Examination of anomalous self-experience (EASE).** EASE is a semi-structured checklist for clin-  
244 ical-phenomenological exploration of experiential disturbances. Scores are summed up in a *global*  
245 *score*, with five *sub-scores*; Cognition and stream of consciousness, Self-awareness and presence, Bod-  
246 ily experiences, demarcation/transitivity and existential reorientation [47].

247 **The Screen for Cognitive Impairment in Psychiatry (SCIP).** SCIP is a neuropsychological test for  
248 quick and objective quantification of cognitive function in patients with psychiatric disorders. The Dan-  
249 ish translation has demonstrated validity for detection of objective cognitive impairment [48]. It assesses  
250 verbal learning and memory, delayed memory, working memory, word mobilization and processing  
251 speed test [49].

252 **Autism Diagnostic Observation Schedule (ADOS-2).** ADOS-2, module 4 [50] is a a semi-structured  
253 and standardized observation of communication, social interaction and creative use of materials used to  
254 assess autism spectrum disorder pathology.

255 **Wechsler Adult Intelligence Scale – Fourth Edition (WAIS-IV).** The WAIS is an IQ test designed to  
256 measure intelligence and cognitive ability in adults and older adolescents [51].

257 **Conners' Adult ADHD Rating Scales (CAARS).** The CAARS is a test developed to diagnose atten-  
258 tion problems, such as ADHD and ADD. It provides both Self-Report and Observer Report Forms, per-  
259 mitting multimodal assessment of adults with attention problems [52].

260 **Level of Personality Functioning - Brief Form 2.0 (LPFS-BF).** LPFS-BF is a brief 12-item self-re-  
261 port inventory developed to assess levels of personality functioning as defined in the alternative model  
262 for personality disorders in DSM-5 Section III. It measures impairment in personality functioning  
263 within the domains of self-functioning and interpersonal functioning [53].

264 **Personality Inventory for DSM-5, 36 item version (PID-36).** The PID-36 is an abbreviated version of  
265 the originally 100-item version of the Personality Inventory for DSM-5 (PID-5), developed to measure  
266 the pathological trait specifiers listed in the alternative model for personality disorders in DSM-5 Sec-  
267 tion III [54].

268

269 Material from the medical record and from the full MCA will be presented for case-supervision with a  
270 senior psychiatrist, with the option of getting additional opinion from another senior consultant in case  
271 of diagnostic uncertainty. This procedure is included in order to ensure solid diagnostic verification or  
272 alteration.

273 Therapists and team are informed of the results of the MCA, in order for them to use the extra infor-  
274 mation about the patient in the following psychotherapeutic intervention.

275

### 276 **Comparison intervention**

277 Patients allocated to the control-group will receive AAU, which is the standard assessment patients will  
278 receive in the clinic, administered in the manner the assessment usually is. Standard assessment could  
279 include diagnostic assessment with structured interviews (i.e. SCID-5 or PSE) if found indicated by the  
280 clinical assessment team.

### 281 **Intervention fidelity**

282 The intervention will be carried out by the researcher, a resident in psychiatry. He will receive training  
283 and supervision on the assessment battery from experts in the field, and he will likewise receive training  
284 and supervision in Therapeutic Assessment. Audio or video-recordings of MCA consultations will be  
285 used for supervision purpose, and to secure intervention fidelity.

### 286 **Outcomes**

287 Data are gathered through a number of questionnaires from patients prior to randomization (T0), at end  
288 of MCA (T1) and after four weeks of psychotherapy (T2) – absolute time depend on clinical logistics

289 and timing of group therapy onset.

290 An overview of outcome measures is given in Table 1, and instruments in each category are detailed be-  
291 low.

292 **Primary outcome (objective 1)**

293 **University of Rhode Island Change Assessment Scale (URICA).** URICA is a 32-item self-report  
294 measure that including 4 subscales designed to quantify the patients motivation for change: The four  
295 subscales are Pre-contemplation, Contemplation, Action, and Maintenance [55]. We will utilize Con-  
296 templation score as our primary outcome.

297

298 **Secondary outcomes**

299 **The Liebowitz Social Anxiety Scale-Self-Report (LSAS).** The self-administered 24-item LSAS-  
300 SR[55], which is highly correlated with the clinician-administered version [56] includes questions per-  
301 taining to social interaction and performance situations. The LSAS-SR have shown to have good con-  
302 vergent, discriminant validity, and reliability [57].

303 **Rosenberg Self-Esteem Scale (RSES).** The RSES is a 10-item measure of self-esteem that includes  
304 five positive items and five negative items which are reversed scored [58]. In general, the RSES has  
305 demonstrated good convergent validity and good test-retest reliability and in similar populations of  
306 adults with social phobia, the RSES has demonstrated high internal consistency [59].

307 **General Self-Efficacy Scale (GSES).** The GSES is a 10-item psychometric scale that is designed to as-  
308 sess optimistic self-beliefs to cope with a variety of difficult demands in life. In contrast to other scales  
309 that were designed to assess optimism, this one explicitly refers to personal agency, i.e., the belief that  
310 one's actions are responsible for successful outcomes [60, 61].

311

312 **Exploratory Outcomes**

313 **Working Alliance Inventory (WAI).** The WAI is a 36-item self-report psychometric scale that is de-  
314 signed to assess the therapeutic alliance between a patient and a therapist [62]. It will assess the work-  
315 ing alliance between the group-therapists and the patients.

316 **Readiness for Psychotherapy Index.** The RPI is a 42-item self-report measure that uses a 5-point Lik-  
317 ert scale to assess 7 dimensions of readiness for psychotherapy: level of distress, desire for change,  
318 willingness to work in therapy, recognition of problems as psychological, willingness to discuss per-  
319 sonal matters, willingness to endure discomfort in therapy, and responsibility for change [63]. The ques-  
320 tionnaire will be translated and validated for use in a Danish mental health service population, as part of  
321 the present study.

322 **National Patient Reported Outcome Measures (PROM)-Psychiatry.** The Danish National PROM is  
323 a 19-item, self-report measure covering patients own view on their mental and physical health, and level  
324 of general well-being [64]. It includes the WHO Well-Being Index (WHO-5), the Work and Social Ad-  
325 justment Scale (WSAS) [65] and general items from the SF36

326 **Data from Electronic Health Records (EHR).** We will monitor number of no-shows and number of  
327 diagnostic re-classification by accessing the included patients EHR.

328

329 **User Evaluations**

330 **Client Satisfaction Questionnaire (CSQ-8).** The CSQ-8 is a self-report questionnaire constructed to  
331 measure satisfaction with services received by individuals and families [66].

332 **Evaluation of the intervention (EQ).** Questionnaire focusing on the patient's and therapist's evalua-  
333 tion of the intervention, which is purpose-made for the current study, will be distributed at the end of the  
334 intervention. Items will be constructed as Likert Scale feedback forms consisting of a list of statements  
335 about different aspects of the course of the intervention. Response possibilities are five categories rang-  
336 ing from very much in agreement to not at all.

337 **Adverse effects**

338 We monitor for adverse events, in particular suicidal behavior/ideation and will check for this at every  
 339 visit to the clinic. If a patients is admitted during participation in the study, a senior consultant will de-  
 340 cide whether the patient can continue to participate in the present study.

341 **Table 1. Overview of measurements CO-ASSM-RCT**

	Baseline (T0)	End of intervention (T1)	After 4 sessions group psychotherapy (T2)
URICA	x	x	
LSAS	x	x	x
RSES	x	x	x
GSES	x	x	x
WAI		x	x
CSQ-8		x	x
PROM	x	x	x
EHR			x
EQ		x	
RPI	x	x	

342

343

344 **Patient and public involvement**

345 We will throughout the present trial seek the feedback of users and next-of-kin, and we will establish a  
 346 user-panel who will help interpret the findings of the study.

347 **Statistical considerations**

348 Sample size calculation is based on figures in Dozois et al. (2004) [67] of patients with panic anxiety,  
 349 where the primary outcome “Contemplation stage score” in readiness for change. It was mean 37,3 (SD

Version 1.4 October 13th, 2021.

350 1,9) for CBT responders and mean 34,4 (std 3,4) for non-responders, i.e. with significance level 5% and  
351 power 90%, it yields a total sample of 36 and 18 patients in each arm. We strive for 42 patients to ac-  
352 count for attrition around 15%. We find it feasible to include the 42 patients since 64 patients annually  
353 are offered treatment packages (40 SP and 24 AVPD). A detailed statistical analysis plan will be pub-  
354 lished prior to data processing initiation. Briefly, we expect to analyze continuous outcomes by linear  
355 regression. Categorical outcomes will be analyzed using chi-square testing of frequency distribution.  
356 We will use multiple imputations to handle missing data.

### 357 **Dissemination policy**

358 The results of the present study will be disseminated by the Research Unit for Psychotherapy and Psy-  
359 chopathology's social media account and website. It will also be sought published through high-impact  
360 international peer-reviewed journals, and be presented at conferences for clinicians, commissioners, and  
361 researchers working in the mental health field. Both negative and positive findings will be published.  
362 The protocol is published at [clinicaltrials.gov](https://clinicaltrials.gov) (Nr 2021001). Although steps will be taken to avoid it,  
363 protocol deviations may happen. Protocol deviations that occur after the start of trial recruitment will be  
364 communicated at <https://clinicaltrials.gov> and detailed in publications.

### 365 **Trial Status**

366 The trial is expected to begin recruitment October 2021. The last participant is expected to be included  
367 November 2022. The interventions session are expected to run from September 2021 to January 2023.

### 368 **Discussion**

369 The current study will be the first RCT investigating MCA in a Mental Health Services setting. It will  
370 be a feasibility study, and will test the study hypothesis in a small clinical sample. If the present study is  
371 successful, it might be followed up by other and larger clinical studies on MCA. The study will contrib-  
372 ute to sparse existing research concerning the impact of clinical assessment and will provide important  
373 new knowledge about the effect of routine and systematic patient-centered clinical assessment and gen-  
374 erate effect size measures for future power calculations. It will also generate data regarding patients

375 readiness for psychotherapy, and the percentage of patients who are wrongly-diagnosed in a prototypical  
376 Danish public healthcare psychotherapeutic clinic.

377 We believe the intervention will have a positive effect on the included patients, but there is however a  
378 potential risk that the patients receiving MCA may not benefit from the excess assessment, but that the  
379 treatment instead will increase dropout due to the patient becoming overwhelmed. There is also a possi-  
380 ble risk of the patients become upset or disappointed due to the new knowledge, they receive about  
381 themselves. Ultimately, the MCA might yield an unexpected diagnosis which could severely change the  
382 way the patient sees herself, and the way society in general sees the patient. Many of these problems,  
383 may, however, also occur in AAU.

384 If the current project document feasibility of the approach, further studies should examine the incremen-  
385 tal value of MCA as to patient outcome of total treatment course, persistence in and length of treatment  
386 and cost-effectiveness.

387 By the end of the present project, we will be able to decide whether the results are sufficiently promis-  
388 ing to pursue a full trial (phase III)[68]. For that purpose, the study output also encompass development  
389 of a MCA protocol for clinicians and adjoining fidelity instrument.

#### 390 **Additional File**

391 SPIRIT 2013 Checklist: Recommended items to address in a clinical trial protocol and related docu-  
392 ments.

393

#### 394 **Declarations:**

#### 395 **Ethics approval and consent to participate**

396 The protocol was approved by Ethics Committee Region Zealand (Registration number: SJ-924) and Re-  
397 gion Zealand Data Protection Agency (Registration number: REG-050-2021), and has thus undergone  
398 full external peer-review, and live up to the European Union's rules of data security.

399 All participants will give written informed consent following the National Danish Ethics Committee's  
400 guidelines, and do so prior to randomization and intervention allocation.

401 **Consent for publication**

402 Not applicable.

403 **Availability of data and materials:**

404 The datasets generated by the planned study will not be publicly available due to the rules of the Danish  
405 Data Protection Agency, but will be available from the corresponding author, after publication, on rea-  
406 sonable request and following signed confidentiality agreement with PI and the Danish Data Protection  
407 Agency Region Zealand.

408 **Competing Interests**

409 The authors declare there are no competing interests in this trial.

410 **Funding:**

411 The study have received funding from Psychiatry South, Region Zealand Mental Health Service  
412 (2.128.560 DKK) which is allocated to the PhD's salary, and the Region Zealand Phd Tuition og An-  
413 numm fond (180.000 DKK) which is allocated to the tuition fee to the University of Copenhagen and the  
414 PhD-students annum-funds. SA is affiliated with Region Zealand Mental Health Service, where she is  
415 employed. Furthermore, the study has received competitive funding from Trygfonden (997.259 DKR)  
416 and the AP Møllers Lægefond (50.000 DKR), which will cover the running costs of the study.

417 **Authors contributions:**

418 SMA is principal investigator and manager on the executive level as well as head academic supervisor.  
419 SMA conceptualized the study and ORH was responsible for writing the first manuscript draft which  
420 was supplemented with substantial input from NR and KD. All authors have discussed, reviewed and  
421 approved the manuscript.

422 Acknowledgements: The authors wish to thank Trygfonden and AP Møllers Lægefond for their finan-  
423 cial contribution to the study.

424

425 SPIRIT 2013 Checklist: Recommended items to address in a clinical trial protocol and related docu-  
426 ments has been filled out, and is included as additional file 1.

427

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